

BrightSourceEnergy™

December 10, 2010

Mr. Joseph Douglas
Compliance Project Manager
California Energy Commission, Siting, Transportation, and Environmental Protection Division
1516 9th Street
Sacramento, CA 95814

RE: Ivanpah Solar Electric Generating System (07-AFC-5C)
Condition of Certification COMP-6: November 2010 Monthly Compliance Report

Dear Mr. Douglas,

Please find attached the Monthly Compliance Report for the Ivanpah Solar Electric Generating Facility System for the month of November 2010. The template you provided was used as a basis for this report along with the requirements included in Condition of Certification COMP-6. This document also includes the following monthly reports required under the project Conditions of Certification:

Exhibit 4 Air Quality Monthly Monitoring Report
Exhibit 7 Cultural Resources Monthly Monitoring Report
Exhibit 8 Paleontological Resources Monthly Compliance Report
Exhibit 9 Biological Resources Monthly Monitoring Report

Please feel free to contact me with any questions, concerns, or comments. Thank you.

Sincerely,



Tracie A. Wheaton
Environmental Compliance Manager
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Las Vegas, NV 89145
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twheaton@brightsourceenergy.com

CC: Tom Hurshman, Bureau of Land Management
Raymond Lee, Bureau of Land Management
John Werfal, Bureau Veritas
Todd Stewart, BSE
Steve DeYoung, BSE
Nickolaus Jacobs, BSE
Mike Bobinecz, BSE



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Douglas Davis, BSE
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Terry Copeland, Bechtel Corporation
Rowan Nairn, Bechtel Corporation
Lisa Maniyar, Bechtel Corporation





**Ivanpah Solar Electric Generating System
California Energy Commission (07-AFC-5C)
Bureau of Land Management
(CACA-48668, 49502, 49503, and 49504)**

**Condition of Certification COMPLIANCE-6
Monthly Compliance Report No. 2
November 2010 Reporting Period**

December 10, 2010

**Prepared by: Tracie Wheaton
Environmental Compliance Manager
BrightSource Energy
10161 Park Run Drive, Suite 150
Las Vegas, NV 89145**

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Monthly Compliance Report

1. The focus of November site construction and compliance activities was on the completion of environmental clearances on Unit 1, continued preparation of the Construction Logistics Areas East and West for proposed facilities, continued preparation of Colosseum Road for its future development, the start of well installation, and continued maintenance of environmentally sensitive areas. Biological monitoring of all construction activities continued in accordance with the requirements within the Conditions of Certification. Tortoise sweeps within Unit 1 were completed on November 3, 2010 and the site was released to Bechtel for construction activities.

Clearing and grubbing activities were completed on Colosseum Road, the Construction Logistics Area access road to Unit 1, water well area, administration building area, Southern California Edison (SCE) switchyard, Construction Logistics area, and Heliostat Assembly Building (HAB) area. Colosseum Road development continued throughout the month of November.

Geotechnical investigation has been completed for the Construction Logistics Area and Unit 2 power block. Geotechnical investigation within Units 2 and 3 is ongoing. During the biological monitoring of Unit 3 geotechnical investigations, several new tortoise burrows occupied with tortoise were documented by site biologists. Permission was requested from the US Fish and Wildlife Service and Bureau of Land Management to construct tortoise pens around the occupied burrow locations. This permission was granted from both agencies and a Verification Change Request with a description of the proposed tortoise pens and a location map is being prepared for submission to the California Energy Commission and Bureau of Land Management at this time.

Security fence post installation for the Construction Logistics Area East has been completed. Installation of the security fence posts for Construction Logistics Area West is ongoing. Permanent security fence installation has begun in the remainder of the Construction Logistics Area. Site survey activities for the layout of permanent site security fencing and earthwork within the Construction Logistics Area is ongoing. Earthwork activities within the Construction Logistics Area in preparation for site trailers, the worker parking lot, and construction warehouse is ongoing. Silt fence installation along the Unit 1 access road is ongoing. Grounding of fencing under the Southern California Edison ROW and future generation tie in lines continued this month.

Well installation began within the Construction Logistics Area. The well area has been grubbed, cleared, and graded. The well drilling subcontractor mobilized to site on the November 22, 2010 and drilling commenced (insertion of well conductors) on November 29, 2010. Potential sites for a second monitoring well are currently being discussed between Chris Dennis of the California Energy Commission, BrightSource Energy, and Bechtel.

The rare plant transplantation area continued to be populated with Special Status Plants salvaged from Unit 1. All special status plants within the rare plant

transplantation area were monitored and maintained in accordance with the Special Status Plant Plan. The Animal Husbandry Plan was implemented within the tortoise pens as well as in other required areas on site. Further information on biological and botanical activities required under Conditions of Certification BIO-8, BIO-9, BIO-10 and BIO-18 is included in Exhibit 9.

Forecasted construction activities for the next project reporting period include:

- Begin sub surface development of Colosseum Road and Common Area access road to Unit 1.
- Continue clearing and grubbing and development of Unit 1 access road and power block for earthwork activities.
- Begin rock installation of Common Area parking lot.
- Continue installation of permanent security fence for east and west Common Areas for post and fabric.
- Begin installation of permanent security fence post and fabric for Unit 1.
- Continue development of 1st water well to design depth.
- Cut and fill of Heliostat Assembly Building area.
- Begin receipt and installation of construction trailers.
- Begin installation of Southern California Edison (SCE) underground conduits, (pending SCE approval).
- Continue grounding of fence lines under SCE ROW and generation tie lines.

There have been no significant project delays or significant changes to the project schedule during this reporting period.

2. Per the project Conditions of Certification, multiple reports are being submitted within this Monthly Compliance Report. Those include, Exhibit 4: Air Quality Monthly Compliance Report, Exhibit 7: Cultural Resources Monthly Monitoring Report, Exhibit 8: Paleontological Resources Monthly Compliance Report, and Exhibit 9: Biological Resources Monthly Monitoring Report.
3. The Ivanpah SEGS Compliance Matrix, including all Conditions of Certification, has been included as Exhibit 3.
4. The following list includes plan submittals that were made up to the end of this reporting period in compliance with the project's Conditions of Certification.

Condition	Actions that Satisfied the Condition	Date Submitted
AQSC-3	Submitted documentation of compliance with the Air Quality Construction Mitigation Plan	11.10.2010
AQSC-4	Submitted documentation of compliance with the Dust Plume Response Requirement	11.10.2010
AQSC-5	Submitted Construction Mitigation Report demonstrating compliance with the AQCMP	11.10.2010
BIO-2	Submitted copies of all written reports and summaries that documented biological resources compliance activities in the October Monthly Compliance Report	11.10.2010
BIO-4	Submitted copies of all written reports and summaries that documented biological resources compliance activities in the October Monthly Compliance Report	11.10.2010
BIO-6	Submitted list of all persons having completed WEAP training in October MCR	11.10.2010
BIO-7	Submitted documentation of implementation of the measures in the BRMIMP	11.10.2010
BIO-8	Submitted documentation of implementation of the measures in the BRMIMP; Submitted Animal Husbandry Plan in compliance with the ISEGS Biological Opinion	11.10.2010 11.1.2010
BIO-9	Submitted status update on site compliance with the Desert Tortoise Translocation Plan, revision 4.	11.10.2010
BIO-11	Submitted documentation of implementation of the measures in the BRMIMP	11.10.2010
BIO-18.6	Submitted the Special-status Plant Remedial Action Plan	11.10.2010
CIVIL-1	Submitted list of all general design documents approved by the CBO in October MCR	11.10.2010
COMP-5	Submitted Compliance Matrix containing all Conditions of Certification - Pre-Construction, Construction and Operations	11.10.2010
COMP-6	Submitted October Monthly Compliance Report	11.10.2010
CUL-3	Submitted the Cultural Resources Monitoring and Mitigation Plan, Revision 2	10.27.2010
CUL-5	Submitted list of all persons having completed WEAP training in October MCR	11.10.2010
CUL-7	Submitted Cultural Resources Monitoring Report for reporting period in October MCR	11.10.2010
PAL-4	Submitted list of all persons having completed WEAP training in October MCR	11.10.2010
PAL-5	Submitted Paleontological Resources Monitoring Report for reporting period in October MCR	11.10.2010
S&W-1	Submitted documentation of compliance with DESCP in October MCR	11.10.2010
S&W-3	Submitted Well Construction Packet	11.1.2010
S&W-6	Submitted the Ground Water Level Monitoring and Reporting Plan, Revision 2	11.1.2010
VIS-1	Submitted Amendments 1 and 2 to the Surface Treatment Plan	11.4.2010
WORKER SAFETY-3	Submitted list of all person having completed safety training during reporting period in the October MCR	11.10.2010

5. Per the Conditions of Certification, there are no outstanding submittal requirements at this time.

6. There have been no requested or approved changes to Conditions of Certification during this reporting period.
7. A copy of all agency approvals obtained from the Bureau of Land Management (BLM), the United States Fish and Wildlife Service (USFWS), and the California Department of Fish and Game (CDFG) have been included as Exhibit 13. Agency approvals within Exhibit 13 include approvals from Brian Croft of the U.S. Fish and Wildlife Service and Dr. Larry Lapre of the Bureau of Land Management to pen in occupied desert tortoise burrows encountered within Ivanpah Unit 3 while monitoring geotechnical investigations and an approval from the Bureau of Land Management of the Desert Tortoise Translocation Plan, Revision 4 from Dr. Larry Lapre.

There were no Verification Change Requests processed during the month of November 2010.

8. A list of project compliance activities scheduled during the next two months is included in Exhibit 3, the Ivanpah SEGS Compliance Matrix.
9. The Ivanpah SEGS on-site compliance file is maintained at the project site by the Ivanpah Site Compliance Manager Douglas Davis. As of the end of the reporting period, the on-site compliance file contains the following information:
 - CEC Final Decision
 - CEC Notice to Proceed
 - BLM Record of Decision
 - BLM ROW Notices to Proceed
 - USFWS Biological Opinion
 - All approved BLM Verification Change Request Forms
 - WEAP Training Booklet, Training Sheets, and Training Log
 - A copy of the CRMMP, BRMIMP, and PRMMP; DT Translocation Plan, Burrowing Owl Mitigation and Monitoring Plan, Animal Husbandry Plan, AQCMP, Traffic Control Plan, Noise Control Plan, Weed Management Plan, Raven Management Plan, Avian and Bat Monitoring and Management Plan, Big Horn Sheep Plan, Closure, Rehabilitation, and Revegetation Plan, and the Special-status Plant Protection and Monitoring Plan, Special-status Plant Remedial Action Plan, BIO-9 Compliance Status Report, and the Groundwater Monitoring and Reporting Plan.
10. There were no formal complaints, notices of violation, official warnings, or citations received during the reporting period. Within Exhibit 1, Compliance Documentation, Mr. John Werfal, the Bureau Veritas Environmental Compliance representative for

the Bureau of Land Management documented several items in his daily activity log that should be addressed.

There was one non-compliance documented by Mr. Werfal on the Construction Logistics Area Right-of-Way CACA-49502. A description of that non-compliance is outlined below:

11/3/2010 & 11/9/2010 – Mr. Werfal informed Bechtel and BSE that the fence construction was currently occurring outside of the project BLM ROW. After research, survey, and additional mapping, it was determined that there were in fact discrepancies in the fencing and ROW boundaries. Those ROW discrepancies are being discussed between Todd Stewart of BSE and the BLM Authorized Officer Tom Hurshman. Included in the fencing discrepancies were constructability issues, additional land to accommodate rare plant relocations, and an oversight in the ROW Grant for the Common Area that depicted the width of the Colosseum Road ROW as 24 feet, when the Plan of Development stated that it would be 50 feet wide. In addition to that, a rerouting of the natural gas pipeline from the circuitous route north of the project boundary needed to be done. Several alternative routes were discussed with the BLM and a more direct route that follows a large portion of the current northern boundary of the Ivanpah 3 project was identified as preferred. This route has been presented to CEC for review and concurrence. BLM has directed BSE to assemble the ROW discrepancies, corrections, and adjustments in a single document request. BSE is currently preparing the package which includes, detailed discussions and, justifications for changes, maps, and legal descriptions. It is planned to submit this package to the BLM in December 2010.

Other communication documentations from Mr. Werfal that are worthy of note are outlined below:

11/8/2010 & 11/9/2010 – Mr. Werfal informed BSE that better dust control measures were needed. The BSE AQCMM requested that Bechtel have their workers increase the amount of dust suppression watering in front of their heavy equipment. Due to the high winds encountered on site on 11/9/2010, earthwork activities were adjusted to a slower pace to reduce dust generation. The issues on dust suppression have been resolved as of the close of this report.

11/15/2010 & 11/16/2010 – Discussions regarding the request for the installation of a temporary water line from Las Vegas Paving's well began. The purpose of the line is to reduce water truck traffic and to increase the rate at which water trucks can refill in order to better implement their dust suppression watering. Staging of pipeline materials for the waterline occurred along Roads 238 and 241. After direction from Mr. Werfal, this piping was removed from areas outside of the project ROW. Upon direction from Mr. Werfal, BSE began discussions with the BLM Authorized Officer Tom Hurshman regarding the processing of a temporary ROW application for the temporary water line for areas that were not within the existing Ivanpah SEGS ROW. Todd Stewart of BSE submitted the ROW application to Jose Najar, Realty Specialist at the BLM Needles Field Office. As of the close of this report, the

application is being processed by Mr. Najar. Additionally, Ken Downing of BLM and Chris Dennis of the California Energy Commission requested information regarding the Las Vegas Paving well and water quality information for the well. The information request for Mr. Downing and Mr. Dennis is being addressed as of the close of this report.

Exhibit 1

Compliance Documentation Condition of Certification COMP-6

Tracie Wheaton

From: john.werfal@us.bureauveritas.com
Sent: Monday, December 06, 2010 5:54 PM
To: Tracie Wheaton
Subject: Ivanpah November Compliance Level Reports
Attachments: Summary of Compliance Level Reports - November 2010.pdf

Hi Tracie,
See attached summary of the BLM compliance level reports for November 2010.

If you have any questions or comments, please let me know.

Regards,

(See attached file: Summary of Compliance Level Reports - November 2010.pdf)

John Werfal
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1. Summary of Compliance Level Reports for November 2010

Ivanpah 1 - Right-of-Way Lease/Grant Serial No. CACA-49504

Compliance Level/ Report Number	Date	Description	Corrective Action
Communication			
Daily Activity Log 11/02/2010	11/02/2010	Due to juvenile tortoises located during third clearance survey, Designated Biologist submits email request for an extension to complete tortoise clearance surveys until November 10, 2010.	NA
Daily Activity Log 11/03/2010	11/03/2010	BLM (Larry LaPre) provides email approval for request to extend tortoise clearance surveys until November 10, 2010 contingent upon USFWS agreement.	NA
Daily Activity Log 11/03/2010	11/03/2010	USFWS (Raymond Bransfield) provides email approval for request to extend tortoise clearance surveys until November 10, 2010	NA
Problem Area			
		None for this period	
Noncompliance			
		None for this period	

Ivanpah 2 - Right-of-Way Lease/Grant Serial No. CACA-48668

Compliance Level/ Report Number	Date	Description	Corrective Action
Communication			
		None for this period	
Problem Area			
Daily Activity Log 11/02/2010	11/02/2010	Drill rig experienced a small hydraulic leak resulting in the release of approximately one pint or less of hydraulic fluid to the ground surface.	A spill kit was available at the drill rig, and the impacted soil was promptly cleaned up. According to the driller, the hydraulic fluid was vegetable-based oil.
Noncompliance			
		None for this period	

Ivanpah 3 - Right-of-Way Lease/Grant Serial No. CACA-49503

Compliance Level/ Report Number	Date	Description	Corrective Action
Communication			
Daily Activity Log 11/18/2010	11/18/2010	Designated biologist notifies BLM and USFWS that five tortoises were located in burrows within Ivanpah 3 and requests authorization to erect pens around the burrows until such a time that transmitters can be placed.	NA
Daily Activity Log 11/19/2010	11/19/2010	In email communications, Larry LaPre of BLM and Brian Croft of USFWS concur with request to erect pens around five occupied burrows until such a time that transmitters can be placed.	NA
Daily Activity Log 11/19/2010	11/19/2010	BLM Compliance Project Manager requests BSE to document request to erect pens around occupied burrows in a Change of Verification Request.	NA
Problem Area			
		None for this period	
Noncompliance			
		None for this period	

CLA - Right-of-Way Lease/Grant Serial No. CACA-49502

Compliance Level/ Report Number	Date	Description	Corrective Action
Communication			
Daily Activity Log 11/1/2010	11/1/2010	Informed Bechtel of apparent fence segment located outside of CLA ROW beneath power lines near East Common area. Bechtel to reconcile CLA ROW survey coordinates with fence line coordinates and respond.	NA.
Daily Activity Log 11/3/2010	11/3/2010	Discussions with Bechtel regarding work activities conducted outside of permitted ROW. The fence segment installed outside the ROW was constructed in accordance with construction drawings. The construction drawings depict fence lines and drainage features outside of the ROW. Bechtel to prepare drawings with overlays of the ROW boundaries to identify problem areas. Verbally instructed Bechtel and BSE Site Compliance Manager to cease any activities in known or suspected areas that may be outside of the permitted ROW.	NA
Daily Activity Log 11/8/2010	11/8/2010	Informed BSE that better dust control measures were needed in West Common area where earthwork activities were occurring	NA
Daily Activity Log 11/9/2010	11/9/2010	Discussions with BSE and Bechtel regarding dust control measures. Bechtel may begin conducting dust suppression watering in early dawn hours to better control dust generation. Bechtel asked for verification that the placement of temporary construction lighting (portable light masts) was acceptable.	NA

Compliance Level/ Report Number	Date	Description	Corrective Action
Daily Activity Log 11/9/2010	11/9/2010	Discussion with Todd Stewart of BSE regarding construction activities conducted outside of the CLA ROW. Issues arose from an apparent discrepancy between coordinates used by the construction engineering group and those provided to BLM to define the ROW boundaries. Bechtel was identifying conflicts between construction design drawings and BLM ROW survey coordinates. All apparent conflicts are within ROW application study area and appear to total less than 10 acres. Additional information was required from certain third parties (i.e., final confirmation of minimum utility line separation from SCE, etc.) so a single ROW amendment request could be submitted.	NA
Daily Activity Log 11/10/2010	11/10/2010	Bechtel reports that problem with water production from well in Las Vegas Paving's yard was due to a clogged filter and that the problem had been resolved.	NA
Daily Activity Log 11/10/2010	11/10/2010	Verified with George Meckfessel of BLM that the placement of temporary construction lighting (portable light masts) to accommodate early dawn dust suppression watering was acceptable contingent upon compliance with requirements of VIS-4. Advise Bechtel accordingly.	NA
Daily Activity Log 11/15/2010	11/15/2010	Bechtel provides notice of pending request to install an above ground temporary water line from Las Vegas Paving's well to proposed temporary water tanks on Colosseum Road near golf course water tank. Installation of water line intended to provide water to	NA

Compliance Level/ Report Number	Date	Description	Corrective Action
		support construction activities (i.e., dust suppression) and reduce water truck traffic. Proposed water line route would be along private land adjacent to PVGC fence, across Road 238 (underground), along Road 241, and continue along Colosseum Road. Description of proposed water line request forwarded to BLM.	
Daily Activity Log 11/16/2010	11/16/2010	Direct Bechtel to remove water line piping staged along Road 238 that is outside of permitted ROW. Advise Bechtel that a new ROW application for the water line may not be granted and construction of the water line on private property was at their risk.	NA
Daily Activity Log 11/16/2010	11/16/2010	Discussion with Bechtel regarding proposed water line request. Advise Bechtel that proposed water line would require a new ROW application and because route along Road 241 is outside of the project study area some level of NEPA documentation would be necessary resulting in a application process time of about 45 to 60 days. Discussed an alternate water line route along PVGC property to entrance of Colosseum Road.	NA
Daily Activity Log 11/17/2010	11/17/2010	Chris Marxen visits site to investigate tortoise mortality. Confirm with designated biologist, Peter Woodman that no additional tortoise mortalities had occurred. To date, 44 tortoises had been located with 2 mortalities. Neither mortality designated as a project take. Fourteen adult and 9 juvenile/sub-adult tortoises are quarantined in 19 tortoise pens.	NA

Compliance Level/ Report Number	Date	Description	Corrective Action
Problem Area			
Daily Activity Log 11/9/2010	11/9/2010	As a result of windy conditions, dust control measures appeared inadequate to ensure fugitive dust emissions do not leave site. BSE briefly halted earthwork activities to review dust mitigation measures with Bechtel. Problem with water production from well in Las Vegas Paving's yard was resulting in insufficient dust suppression watering. Work activities adjusted to slow pace of earthwork to reduce dust generation.	Work activities adjusted to slow pace of earthwork to reduce dust generation. On 11/10/10, dust control measures were significantly improved and in compliance with project requirements. Resolution of the water production problem from the well in Las Vegas Paving's yard resulted in more adequate dust suppression watering.
Daily Activity Log 11/16/2010	11/16/2010	Water line piping staged on BLM land along Road 238 outside of permitted ROW.	Piping promptly removed from BLM property as requested.
Noncompliance			
Daily Activity Log 11/3/2010	11/3/2010	Earth disturbing activities and fence construction verified to have been conducted outside of the permitted ROW.	BSE to further evaluate extent of conflicts between ROW boundaries and designed features outside ROW. ROW amendment to be submitted.

Exhibit 2

Ivanpah SEGS 90-day Schedule Condition of Certification COMP-6

Activity ID	Activity Name	Original Duration	Start	Finish	2010		2011	
					Nov	Dec	Jan	Feb

COMMON AREA

COMMON AREA

Site Preparation - Earthwork, Grading, and Backfill

BC0011C-105	CE01: Site Prep -Establish Sub-Base for Road between Common Area and Western tie-in point for Colosseum Rd	15.0	23-Nov-10 A	16-Dec-10
BC0011C-100	CE01: Site Prep - Clear / Grub for Colosseum Rd up to and through common area to U1 fence line (Milestone 3)	14.0	15-Dec-10*	13-Jan-11
BC0011C-490	Common Area: CE01 - Site Prep - Establish Wheel Wash Facility	18.0	15-Dec-10*	24-Jan-11

Conduit

BC0016C-100	Common Area: Install 375' U/G PVC Conduit under existing T-Line ROW for SCE 33Kv tie-in	6.0	13-Dec-10	21-Dec-10
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FG Pipeline Installation

BFPZ00C-040	PZ00: FG Pipeline Install - Technical Evaluation	13.0	16-Nov-10 A	09-Dec-10
BFPZ00C-050	PZ00: FG Pipeline Install - Conform Spec / MR	8.0	13-Dec-10	23-Dec-10

WATER TREATMENT FACILITIES

Site Preparation - Earthwork, Grading, and Backfill

BC0011C-130	Common Area: CE01 - Site Prep - Clearing, Grubbing, Rough Grade & Excavation of Water Well Area	9.0	08-Nov-10 A	21-Nov-10 A
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Furnish / Install Wells

BC0011C-010	Common Area: CT20 - Well Drilling - MOB / WEAP Traini...	3.0	25-Nov-10 A	25-Nov-10 A
BC0011C-210	Common Area: CT20 - Well Drilling - Install Water Well in Common Area	23.0	29-Nov-10 A	12-Jan-11

ADMIN / CONTROL ROOM / WAREHOUSE

Site Preparation - Earthwork, Grading, and Backfill

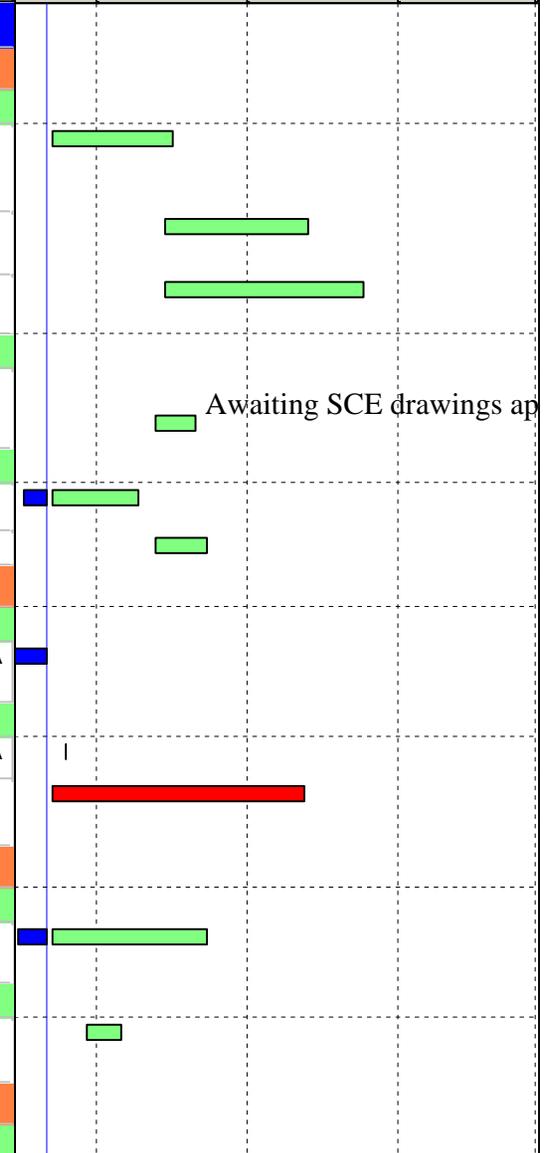
BC8111C-100	Common Area: CE01 - Site Prep - Clearing, Grubbing, Rough Grade, & Excavation of Admin Building Area	12.0	15-Nov-10 A	23-Dec-10
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Site Fencing

BC0011C-155	Common Area: CY10 - Install Security Fence Common West	4.0	29-Nov-10*	06-Dec-10
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HELIOSTAT BUILDING

Site Preparation - Earthwork, Grading, and Backfill



█ Actual Work █ Critical Remaining ...
█ Remaining Work ◆ Milestone

Activity ID	Activity Name	Original Duration	Start	Finish	2010		2011	
					Nov	Dec	Jan	Feb
BC3311C-030	Common Area: CE01 - Site Prep - Clearing, Grubbing, Excavation of 33kV Temporary Power Equipment Areas	20.0	29-Nov-10*	30-Dec-10				
Pre-Cast Concrete								
BFDB02C-020	Heliostat Bldg - Foundation Beams - Receive Bids / Commercial Evaluation	5.0	08-Nov-10 A	22-Nov-10				
BF86ECC-020	Heliostat Bldg - Foundation Beams - Technical Evaluation - Precast Concrete	9.0	08-Nov-10 A	15-Nov-10 A				
BF86ECC-030	Heliostat Bldg - Foundation Beams - Conform MR - Precast Concrete	10.0	22-Nov-10	08-Dec-10				
BFDB02C-040	Heliostat Bldg - Foundation Beams - Award	1.0	09-Dec-10	09-Dec-10				
BFDB02C-050	Heliostat Bldg - Foundation Beams - Fabricate / Ex-Works / Delivery	19.0	13-Dec-10	20-Jan-11				
Formwork, Temporary (Purchase)								
BCDE01X-230	U1: DE01 - Formwork Purchased - Prep Spec / FMR	12.0	11-Nov-10 A	27-Jan-11				
Cable, Power & Control, <=1 kV								
BCDE01X-230	Common: HAB Electrical Bulks - OWNER provide Spec / BOM	1.0	22-Nov-10	22-Nov-10				
HAB Inst Air Compressors								
BFMCRAC-030	Common: MCRA-2: Heliostat Bldg Inst Air Compressors - IFB	4.0	11-Nov-10 A	18-Nov-10 A				
BFMXHSC-104	Common: MCRA-2: Heliostat Bldg Inst Air Compressors - Technical Evaluation	8.0	13-Dec-10	23-Dec-10				
BFMCRAC-040	Common: MCRA-2: Heliostat Bldg Inst Air Compressors - Receive Bids / Comm Evaluation	8.0	13-Dec-10	23-Dec-10				
Heliostat Building								
BFEAEP200-010	Pad Bonding Building - Spec / MR for HAB WR Piping	4.0	02-Dec-10*	08-Dec-10				
CLA								
Site Preparation - Earthwork, Grading, and Backfill								
BC0011C-150	Common Area: CE01 - Site Prep - Clearing, Grubbing, & Rough Grade of Construction Facilities	2.0	27-Oct-10 A	02-Dec-10				
BC0011C-450	Common Area: CE01 - Site Prep - Clearing, Grubbing, & Rough Grade of Construction Fabrication & Warehouse Facilities	11.0	01-Dec-10*	20-Dec-10				
Site Fencing								
BC0011C-140	Common Area: CY10 - Install Security Fence Common East	12.0	08-Nov-10 A	06-Dec-10				

Actual Work Critical Remaining ... Remaining Work Milestone	Page 2 of 4	Level 3 - Construction Long Term Work Plan
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Activity ID	Activity Name	Original Duration	Start	Finish	2010		2011	
					Nov	Dec	Jan	Feb
No IPAH - COMM								
L032	Stone Craft parking Area [4.6 acres]	2.8	29-Nov-10 A	01-Dec-10				
L031	Erect Brass Alley [25x20]	8.0	02-Dec-10	15-Dec-10				
L032	Stone Office / Distribution Areas Area	3.0	06-Dec-10	08-Dec-10				
L060	Set Common Area Construction Offices [108x60]	12.0	09-Dec-10	05-Jan-11				
L026	Set Main Security Station [10x10]	4.0	13-Dec-10	20-Dec-10				
L040	FREP Warehouse Slab [120x210]	8.0	15-Dec-10*	04-Jan-11				
L030	Set Toilet Trailer [10x20]	4.0	23-Dec-10	05-Jan-11				
MULTIPLE								
No IPAH - FAC								
Formwork, Leased								
BFDE02X-240	DE02: Formwork Leased- Prep Spec / FMR	8.0	20-Dec-10	06-Jan-11				
FG Cathodic Protection (Houston)								
BNEQ00C-100	EQ00-1: FG Cathodic Protection - Deliver	1.0	20-Dec-10	20-Dec-10				
Conduit								
BFERC0X-250	ERC0: Conduit & Fittings - IFB	5.0	12-Nov-10 A	18-Nov-10 A				
BFERC0X-210	ERC0: Conduit & Fittings - Receive Bid & Eval	5.0	06-Dec-10	10-Dec-10				
Cable Tray								
BFERT0X-110	ERT0: Cable Tray - Prep Bid package / IFB	4.0	22-Dec-10	04-Jan-11				
Pipe & Fittings, Cast Iron								
BCPX01X-300CI	PX01: Cast Iron - Prep Bid Package / IFB	5.0	22-Nov-10	30-Nov-10				
Pipe & Fittings, Ductile Iron								
BCPX05X-300DI	PX05: Ductile Iron - Prep Bid Package / IFB	5.0	22-Nov-10	30-Nov-10				
UNIT 1								
SITE - GENERAL								
Protected Plant Life								
BO00111-220	U1: Perform Rare Plant Removal for Powerblock [Owner]	4.0	08-Nov-10 A	22-Nov-10				
SRSG								
Rebar Fabrication and Installation								
BC10EC1-130	U1: Twr FDN - Fab Rebar & Formwork (Post DRN)	24.0	13-Dec-10	31-Jan-11				
HELIOSTAT SOLAR FIELD								
Site Preparation - Earthwork, Grading, and Backfill								

█ Actual Work █ Critical Remaining ...
█ Remaining Work ◆ Milestone

IVANPAH Current Schedule		BECHTEL POWER CORP				Run Date: 02-Dec-10			
Activity ID	Activity Name	Original Duration	Start	Finish	2010		2011		
					ov	Dec	Jan	Feb	
BC87111-100	U1: CE01 - Site Prep - Clear / Grub Unit 1 Main Construction Access Rd	23.6	29-Nov-10 A	06-Jan-11					
Site Fencing									
BC00111-055	U1: CY10 - Install Permanent Combo Fence for U1 Perimeter	14.0	02-Dec-10*	03-Jan-11					
Protected Plant Life									
BO00111-500	U1: Perform Rare Plant Removal for Solar Field [Owner]	12.0	08-Nov-10 A	29-Nov-10					
UNIT 2									
SITE - GENERAL									
Site Preparation - Earthwork, Grading, and Backfill									
BC00112-210	U2: Site Survey - Perform U2 Powerblock Area Survey	8.0	08-Nov-10 A	18-Nov-10 A					
Geotechnical Investigation / Engineering									
BOCY052-140	CY05: Unit 2/Common: Biologist Support for Geotech	16.0	12-Oct-10 A	17-Nov-10 A					
BFCY052-120	CY05: Geotech - Perform Investigation Borings - Unit 2	12.0	01-Nov-10 A	17-Nov-10 A					
UNIT 3									
SITE - GENERAL									
Geotechnical Investigation / Engineering									
BOCY053-140	CY05: Unit 3: Biologist Support for Geotech	16.0	20-Oct-10 A	29-Nov-10					
BFCY053-120	CY05: Geotech - Perform Investigation Borings - Unit 3	12.0	18-Nov-10 A	02-Dec-10					

█ Actual Work █ Critical Remaining ...
█ Remaining Work ◆ Milestone

Exhibit 3

Ivanpah SEGS Compliance Matrix Conditions of Certification COMP-5 & COMP-6

Ivanpah SEGS Compliance Matrix 12/8/2010

Phase

Technical Area	COC	Description	Verification	Pre-Con	Con	Ops	Scheduled Submittal Date	Status	Date Submitted	Date Approved	Date of Amendment
Air Quality Boilers	AQ-01	Operation of this equipment must be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below	Any non-compliant operations shall be listed in the Annual Compliance Report (COMPLIANCE-7).			X	N/A	N/A			
Air Quality Boilers	AQ-02	The owner/operator shall operate this equipment in strict accord with the recommendations of the manufacturer or supplier and/or sound engineering principles and consistent with all information submitted with the application for this permit, which produce the minimum emission of air contaminants.	As part of the Annual Compliance Report (COMPLIANCE-7), the project owner shall include information on the date, time, and duration of any violation of this permit condition.			X	N/A	N/A			
Air Quality Boilers	AQ-03	This boiler shall use only natural gas as fuel and shall be equipped with a meter measuring fuel consumption in standard cubic feet.	As part of the Annual Compliance Report (COMPLIANCE-7), the project owner shall include proofs that only pipeline quality, or Public Utility Commission regulated natural gas are used for the boilers.			X	2014	Not yet started			
Air Quality Boilers	AQ-04	The owner/operator shall maintain a current, on-site (at a central location if necessary) log for this equipment for five (5) years, which shall be provided to District, state or federal personnel upon request. This log shall include calendar year fuel use for this equipment in standard cubic feet, or BTUs, and daily hours of operation.	During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or Energy Commission staff.			X	N/A	N/A			
Air Quality Boilers	AQ-05	Not later than 180 days after initial startup, the operator shall perform an initial compliance test on this boiler (Units 1, 2 and 3) in accordance with the District Compliance Test Procedural Manual. This test shall demonstrate that this equipment does not exceed the following emission maximums:	The project owner shall notify the District and the CPM within fifteen (15) working days before the execution of the compliance test required in this condition. The test results shall be submitted to the District and to the CPM within 60 days of the date of the tests.			X	2014	Not yet started			
Air Quality Boilers	AQ-06	The owner/operator shall perform annual compliance tests in accordance with the District Compliance Test Procedural Manual. Prior to performing these annual tests, the boiler shall be tuned in accord with the manufacturer's specified tune-up procedure, by a qualified technician. Subsequent tests shall demonstrate that this equipment does not exceed the following emission maximums:	The project owner shall notify the District and the CPM within fifteen (15) working days before the execution of the compliance test required in this condition. The test results shall be submitted to the District and to the CPM within 60 days of the date of the tests.			X	2014	Not yet started			
Air Quality Boilers	AQ-07	This boiler (Boilers 1, 2, and 3) shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart D - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (NSPS Db).	The project owner shall complete and submit to the CPM a compliance plan that provides a list of the 40 CFR 60 Subpart D plans, tests, and recordkeeping requirements and their compliance schedule dates as applicable for the ISEGS Boilers 1, 2 and 3 at least 30 days prior to first fire of the boilers or earlier as necessary for compliance with Subpart D.			X	2014	Not yet started			
Air Quality Boilers	AQ-08	Records of fuel supplier certifications of fuel sulfur content shall be maintained to demonstrate compliance with the sulfur dioxide and particulate matter emission limits.	Complying with Condition of Certification AQ-3 shall be used to demonstrate compliance with this condition.			X	N/A	N/A			
Air Quality Boilers	AQ-09	The owner/operator shall continuously monitor and record fuel flow rate and flue gas oxygen level.	At least 120 days prior to construction of the boiler stacks, the project owner shall provide the District for approval, and the CPM for review, a detailed drawing and a plan on how the measurements and recordings, required by this condition, will be performed by the chosen monitoring system		X		2013	Not yet started			
Air Quality Boilers	AQ-10	In lieu of installing CEMs to monitor NOx emissions, and pursuant to 40 CFR 60 Subpart D, Section 60.49b(c), the owner/operator shall monitor boiler operating conditions and estimate NOx emission rates per a District approved emission estimation plan. The plan shall be based on the initial source tests as required by condition AQ-5, and annually pursuant to condition AQ-6. The plan shall include test results, operating parameters, analysis, conclusions and proposed NOx estimating relationship consistent with established emission chemistry and operational effects.	This initial plan shall be submitted to the District for approval, and the CPM for review, within 360 days of the initial startup. Any proposed changes to a District-approved plan shall include subsequent test results, operating parameters, analysis, and any other pertinent information to support the proposed changes. The District must approve any emissions estimation plan or revision for estimated NOx emissions to be considered valid.			X	2014	Not yet started			
Air Quality Boilers	AQ-11	The owner/operator shall comply with all applicable recordkeeping and reporting requirements of NSPS Db.	During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.		X	X	N/A	N/A			
Air Quality Boilers	AQ-12	This boiler shall not burn more than 0.9 MMSCF of natural gas in any single day, and no more than 328 MMSCF in any calendar year. a. These limits shall not apply during the facility commissioning period. The commissioning period shall begin the first time fuel is fired in the boiler. The commissioning period shall end when the facility achieves commercial operation, but no later than 180 days after first fire.	During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.		X	X	N/A	N/A			
Air Quality Fire Pumps	AQ-13	This system shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. (Note reference to Model 2010 Tier III engine)	During site inspection, the project owner shall make all records and reports available to the District, ARB, EPA or CEC staff.		X	X	N/A	N/A			
Air Quality Fire Pumps	AQ-14	These engines may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engines are located or expects to order such outages at a particular time, the engines are located in the area subject to the rotating outage, the engines are operated no more than 30 minutes prior to the forecasted outage, and the engines are shut down immediately after the utility advises that the outage is no longer imminent or in effect.	During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff		X	X	N/A	N/A			
Air Quality Fire Pumps	AQ-15	These engines may operate in response to fire suppression requirements and needs.	During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.		X	X	N/A	N/A			
Air Quality Fire Pumps	AQ-16	These units shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per CARB Diesel or equivalent requirements.	During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.		X	X	N/A	N/A			
Air Quality Fire Pumps	AQ-17	A non-resettable four-digit (9,999) hour timer shall be installed and maintained on these units to indicate elapsed engine operating time.	At least thirty (30) days prior to the installation of the engine, the project owner shall provide the District and the CPM the specification of the hour timer.		X	X	N/A	N/A			
Air Quality Fire Pumps	AQ-18	These units shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 50 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 50 hour per year limit.	During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.		X	X	N/A	N/A			
Air Quality Fire Pumps	AQ-19	The hour limit of AQ-18 can be exceeded when the emergency fire pump assemblies are driven directly by a stationary diesel fueled CI engine when operated per and in accord with the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water- Based Fire Protection Systems," 2006 edition or the most current edition approved by the CARB Executive Officer. (Title 17 CCR 93115(c)16)	During site inspection, the project owner shall make all records and reports available to the District, ARB, U.S. EPA or CEC staff.		X	X	N/A	N/A			

Air Quality General	AQSC-03	<p>Construction Fugitive Dust Control: The AQSCMM shall submit documentation to the BLM's Authorized Officer and CPM in each Monthly Compliance Report that demonstrates compliance with the Air Quality Construction Mitigation Plan (AQSCMP) mitigation measures for the purposes of preventing all fugitive dust plumes from leaving the project. Any deviation from the AQSCMP mitigation measures shall require prior BLM Authorized Officer and CPM notification and approval.</p>	<p>The AQSCMM shall provide the BLM's Authorized Officer and the CPM a Monthly Compliance Report (COMPLIANCE-6) to include the following to demonstrate control of fugitive dust emissions:</p> <p>A. a summary of all actions taken to maintain compliance with this condition;</p> <p>B. copies of any complaints filed with the District in relation to project construction; and</p> <p>C. any other documentation deemed necessary by the BLM Authorized Officer, CPM, and AQSCMM to verify compliance with this condition. Such information may be provided via electronic format or disk at the project owner's discretion.</p> <p>The following fugitive dust mitigation measures shall be included in the Air Quality Construction Mitigation Plan (AQSCMP) required by AQ-SC2.</p> <p>a) The main access roads through the facility to the power block areas will be either paved or stabilized using soil binders, or equivalent methods, to provide a stabilized surface that is similar for the purposes of dust control to paving, that may or may not include a crushed rock (gravel or similar material with fines removed) top layer, prior to initiating construction in the main power block area, and delivery areas for operations materials (chemicals, replacement parts, etc.) will be paved prior to taking initial deliveries.</p> <p>b) All unpaved construction roads and unpaved operational site roads, as they are being constructed, shall be stabilized with a non-toxic soil stabilizer or soil weighting agent that can be determined to be both as efficient or more efficient for fugitive dust control as ARB approved soil stabilizers, and shall not increase any other environmental impacts including loss of vegetation. All other disturbed areas in the project and linear construction sites shall be watered as frequently as necessary during grading; and after active construction activities shall be stabilized with a non-toxic soil stabilizer or soil weighting agent, or alternative approved soil stabilizing methods, in order to comply with the dust mitigation objectives of Condition of Certification AQ-SC4. The frequency of watering can be reduced or eliminated during periods of precipitation.</p> <p>c) No vehicle shall exceed 10 miles per hour on unpaved areas within the construction site, with the exception that vehicles may travel up to 25 miles per hour on stabilized unpaved roads as long as such speeds do not create visible dust emissions.</p> <p>d) Visible speed limit signs shall be posted at the construction site entrances.</p> <p>e) All construction equipment vehicle tires shall be inspected and washed as necessary to be cleaned free of dirt prior to entering paved roadways.</p> <p>f) Gravel ramps of at least 20 feet in length must be provided at the tire washing/cleaning station.</p> <p>g) All unpaved exits from the construction site shall be graveled or treated to prevent track-out to public roadways.</p> <p>h) All construction vehicles shall enter the construction site through the treated entrance roadways, unless ar</p>	X		Monthly	Ongoing	N/A	N/A	
Air Quality General	AQSC-03 (continued)		<p>j) All paved roads within the construction site shall be swept daily or as needed (or less during periods of precipitation) on days when construction activity occurs to prevent the accumulation of dirt and debris.</p> <p>k) At least the first 500 feet of any paved public roadway exiting the construction site or exiting other unpaved roads en route from the construction site or construction staging areas shall be swept as needed (or less during periods of precipitation) on days when construction activity occurs or on any other day when dirt or runoff resulting from the construction site activities is visible on the public paved roadways.</p> <p>l) All soil storage piles and disturbed areas that remain inactive for longer than 10 days shall be covered, or shall be treated with appropriate dust suppressant compounds.</p> <p>m) All vehicles that are used to transport solid bulk material on public roadways and that have potential to cause visible emissions shall be provided with a cover, or the materials shall be sufficiently wetted and loaded onto the trucks in a manner to provide at least one foot of freeboard.</p> <p>n) Wind erosion control techniques (such as windbreaks, water, chemical dust suppressants, and/or vegetation) shall be used on all construction areas that may be disturbed. Any windbreaks installed to comply with this condition shall remain in place until the soil is stabilized or permanently covered with vegetation</p>	X		Monthly	Ongoing	N/A	N/A	
Air Quality General	AQSC-04	<p>Dust Plume Response Requirement: The AQSCMM or an AQSCMM Delegate shall monitor all construction activities for visible dust plumes. Observations of visible dust plumes that have the potential to be transported (A) off the project site and within 400 feet upwind of any regularly occupied structures not owned by the project owner or (B) 200 feet beyond the centerline of the construction of linear facilities indicate that existing mitigation measures are not resulting in effective mitigation. The AQSCMP shall include a section detailing how the additional mitigation measures will be accomplished within the time limits specified. The AQSCMM or Delegate shall implement the following procedures for additional mitigation measures in the event that such visible dust plumes are observed:</p> <p>The AQSCMM or Delegate shall implement the following procedures for additional mitigation measures in the event that such visible dust plumes are observed:</p> <p>Step 1: The AQSCMM or Delegate shall direct more intensive application of the existing mitigation methods within 15 minutes of making such a determination.</p> <p>Step 2: The AQSCMM or Delegate shall direct implementation of additional methods of dust suppression if Step 1, specified above, fails to result in adequate mitigation within 30 minutes of the original determination.</p> <p>Step 3: The AQSCMM or Delegate shall direct a temporary shutdown of the activity causing the emissions if Step 2, specified above, fails to result in effective mitigation within one hour of the original determination. The activity shall not restart until the AQSCMM or Delegate is satisfied that appropriate additional mitigation or other site conditions have changed so that visual dust plumes will not result upon restarting the shutdown source.</p> <p>The owner/operator may appeal to the CPM or BLM Authorized Officer any directive from the AQSCMM or Delegate to shut down an activity, if the shutdown shall go into effect within one hour of the original determination, unless overruled by the CPM or BLM Authorized Officer before that time.</p>	<p>The AQSCMM shall provide the BLM's Authorized Officer and the CPM a Monthly Compliance Report (COMPLIANCE-6) to include:</p> <p>A. a summary of all actions taken to maintain compliance with this condition;</p> <p>B. copies of any complaints filed with the District in relation to project construction; and</p> <p>C. any other documentation deemed necessary by the CPM and AQSCMM to verify compliance with this condition. Such information may be provided via electronic format or disk at the project owner's discretion</p>	X		Monthly	Ongoing	N/A	N/A	

Air Quality General	AQSC-05	Diesel-Fueled Engine Control: The AQCM shall submit to the CPM in the Monthly Compliance Report (MCR), a construction mitigation report that demonstrates compliance with the Air Quality Construction Mitigation Plan (AQCMP) mitigation measures for purposes of controlling diesel construction related emissions. Any deviation from the AQCMP mitigation measures shall require prior CPM notification and approval.	The AQCM shall include in the Monthly Compliance Report (COMPLIANCE-6) the following to demonstrate control of diesel construction-related emissions: A. A summary of all actions taken to maintain compliance with this condition; B. A list of all heavy equipment used on site during that month, including the owner of that equipment and a letter from each owner indicating that equipment has been properly maintained; and C. Any other documentation deemed necessary by the CPM, and the AQCM to verify compliance with this condition. Such information may be provided via electronic format or disk at the project owner's discretion. The following off-road diesel construction equipment mitigation measures shall be included in the Air Quality Construction Mitigation Plan (AQCMP) required by AQ-SC2. a. All diesel-fueled engines used in the construction of the facility shall have clearly visible tags issued by the on-site AQCM showing that the engine meets the conditions set forth herein. b. All construction diesel engines with a rating of 50 hp or higher shall meet, at a minimum, the Tier 3 California Emission Standards for Off-Road Compression-Ignition Engines, as specified in California Code of Regulations, Title 13, section 2423(b)(1), unless a good faith effort to the satisfaction of the CPM that is certified by the on-site AQCM demonstrates that such engine is not available for a particular item of Ivanpah Solar Electric Generating System Page 9 07-AFC-5 equipment. In the event that a Tier 3 engine is not available for any offroad equipment larger than 100 hp, that equipment shall be equipped with a Tier 2 engine, or an engine that is equipped with retrofit controls to reduce exhaust emissions of nitrogen oxides (NOx) and diesel particulate matter (DPM) to no more than Tier 2 levels unless certified by engine manufacturers or the on-site AQCM that the use of such devices is not practical for specific engine types. For purposes of this condition, the use of such devices is "not practical" for the following, as well as other, reasons. 1. There is no available retrofit control device that has been verified by either the California Air Resources Board or U.S. Environmental Protection Agency to control the engine in question to Tier 2 equivalent emission levels and the highest level of available control using retrofit or Tier 1 engines is being used for the engine in question; or 2. The construction equipment is intended to be on site for 5 days or less. 3. The CPM may grant relief from this requirement if the AQCM can demonstrate a good faith effort to comply with this requirement and that compliance is not practical. c. The use of a retrofit control device may be terminated immediately, provided that the CPM is informed within 10 working days of the termination and that a replacement for the equipment item in question meeting the conditions.	X			Monthly	Ongoing	N/A	N/A							
Air Quality General	AQSC-06	The project owner, when obtaining dedicated on or off-road vehicles for mirror washing activities and other facility maintenance activities, shall only obtain new model year vehicles that meet California on-road vehicle emission standards appropriate U.S.EPA/California off-road engine emission standards for the model year when obtained.	At least 60 days prior to the start of commercial operation, the project owner shall submit to the CPM a copy of the plan that identifies the size and type of the on-site vehicle and equipment fleet and the vehicle and equipment purchase orders and contracts and/or purchase schedule. The plan shall be updated every other year and submitted in the Annual Compliance Report (COMPLIANCE-7).	X			Q3 2013	Not yet started									
Air Quality General	AQSC-07	The project owner shall provide a site operations dust control plan, including all applicable fugitive dust control measures identified in the verification of AQ-SC3 that would be applicable to reducing fugitive dust from ongoing operations; that: A. describes the active operations and wind erosion control techniques such as windbreaks and chemical dust suppressants, including their ongoing maintenance procedures, that shall be used on areas that could be disturbed by vehicles or wind anywhere within the project boundaries; and B. identifies the location of signs throughout the facility that will limit traveling on unpaved portion of roadways to solar equipment maintenance vehicles only. In addition, vehicle speed shall be limited to no more than 10 miles per hour on the unpaved roadways, with the exception that vehicles may travel up to 25 miles per hour on stabilized unpaved roads as long as such speeds do not create visible dust emissions. The site Operations Fugitive Dust Control Plan shall include the use of durable non-toxic soil stabilizers on all regularly used unpaved roads and disturbed off-road areas, or alternative methods for stabilizing disturbed off-road areas, within the project boundaries, and shall include the inspection and maintenance procedures that will be undertaken to ensure that the unpaved roads remain stabilized. The soil stabilizer used shall be a non-toxic soil stabilizer or soil weighting agent that can be determined to be both as efficient or more efficient for fugitive dust control as ARB approved soil stabilizers, and shall not increase any other environmental impacts including loss of vegetation. The performance and application of the fugitive dust controls shall also be measured against and meet the performance requirements of condition AQ-SC4. The performance requirements of AQ-SC4 shall also be included in the Operations Dust Control Plan.	At least 60 days prior to start of commercial operation, the project owner shall submit to the BLM's Authorized Officer and the CPM for review and approval a copy of the site Operations Dust Control plan that identifies the dust and erosion control procedures, including effectiveness and environmental data for the proposed soil stabilizer, that will be used during operation of the project and that identifies all locations of the speed limit signs. Within 60 days after commercial operation, the project owner shall provide to the BLM's Authorized Officer and the CPM a report identifying the locations of all speed limit signs, and a copy of the project employee and contractor training manual that clearly identifies that project employees and contractors are required to comply with the dust and erosion control procedures and on-site speed limits.	X			Q3 2013	Not yet started									
Air Quality General	AQSC-08	The project owner shall provide the CPM copies of all District issued Authority-to-Construct (ATC) and Permit-to-Operate (PTO) for the facility. The project owner shall submit to the CPM for review and approval any modification proposed by the project owner to any project air permit.	The project owner shall submit to the CPM for review and approval any modification proposed by the project owner to any project air permit. The project owner shall submit to the CPM any modification to any permit proposed by the District or U.S. Environmental Protection Agency (U.S. EPA), and any revised permit issued by the District or U.S. EPA, for the project. The project owner shall submit any ATC, PTO, and proposed air permit modification to the CPM within 5 working days of its submittal either by 1) the project owner to an agency, or 2) receipt of proposed modifications from an agency. The project owner shall submit all modified air permits to the CPM within 15 days of receipt.	X			TBD	As needed									
Air Quality General	AQSC-09	The emergency generator and fire pump engines procured for this project will meet or exceed the NSPS Subpart III emission standards for the model year that corresponds to their date of purchase.	The project owner shall submit the emergency engine specifications to the CPM prior to engine installation.	X			TBD	Not yet started									
Air Quality General	AQSC-10	The ISEGS 1, ISEGS 2, and ISEGS 3 boilers shall not exceed a total annual natural gas fuel heat input that is more than 5 percent of the total annual heat input from the sun for ISEGS1, ISEGS2, and ISEGS 3, respectively.	Annual natural gas fuel heat input data and annual solar heat input data for the ISEGS 1, ISEGS 2, and ISEGS 3 units showing compliance with this condition shall be provided in the Annual Compliance Report (COMPLIANCE-7) . The Annual Compliance Report shall include information separately for ISEGS 1, ISEGS 2, and ISEGS 3. The initial Compliance Report shall include documentation of the methodology used to verify compliance with this condition. The documentation shall include a heat balance diagram, engineering analysis, assumptions and supporting data.	X			2014	Not yet started									
Biological Resources	BIO-01	The project owner shall assign at least one Designated Biologist to the project. The project owner shall submit the resume of the proposed Designated Biologist(s), with at least three references and contact information, to the Energy Commission Compliance Project Manager (CPM) and BLM's Authorized Officer for approval in consultation with CDFG and USFWS. The Designated Biologist must meet the following minimum qualifications: 1. Bachelor's degree in biological sciences, zoology, botany, ecology, or a closely related field; 2. Three years of experience in field biology or current certification of a nationally recognized biological society, such as The Ecological Society of America or The Wildlife Society; 3. Have at least one year of field experience with biological resources found in or near the project area; 4. Meet the current USFWS Authorized Biologist qualifications criteria (USFWS 2008), demonstrate familiarity with protocols and guidelines for the desert tortoise, and be approved by the USFWS; and 5. Possess a California ESA Memorandum of Understanding pursuant to Section 2081(a) for desert tortoise. In lieu of the above requirements, the resume shall demonstrate to the satisfaction of BLM's Authorized Officer, and the CPM, in consultation with CDFG and USFWS, that the proposed Designated Biologist or alternate has the appropriate training and background to effectively implement the conditions of certification.	The project owner shall submit the specified information at least 90 days prior to the start of any project-related site disturbance activities. No site or related facility activities shall commence until an approved Designated Biologist is available to be on site. If a Designated Biologist needs to be replaced, the specified information of the proposed replacement must be submitted to BLM's Authorized Officer and the CPM at least 10 working days prior to the termination or release of the preceding Designated Biologist. In an emergency, the project owner shall immediately notify the BLM Authorized Officer and the CPM to discuss the qualifications and approval of a short term replacement while a permanent Designated Biologist is proposed to BLM's Authorized Officer and the CPM and for consideration. Designated Biologists shall complete a USFWS Qualifications Form (USFWS 2008) (www.fws.gov/ventura/speciesinfo/protocols_guidelines) and submit it to the USFWS, BLM's Authorized Officer and the CPM within 60 days prior to ground breaking for review and final approval.	X			6/11/2010	Approved	6/11/2010	9/30/2010							

Biological Resources	BIO-07	<p>The project owner shall develop a BRMIMP and submit two copies of the proposed BRMIMP to the BLM-Authorized Officer and the CPM (for review and approval) and shall implement the measures identified in the approved BRMIMP. The BRMIMP shall incorporate avoidance and minimization measures described in final versions of the Desert Tortoise Translocation Plan, the Raven Management Plan, the Closure, Revegetation and Rehabilitation Plan, the Burrowing Owl Mitigation and Monitoring Plan, the Weed Management Plan and the Special Status Plant Remedial Action Plan.</p> <p>The BRMIMP shall be prepared in consultation with the Designated Biologist and include the following:</p> <ol style="list-style-type: none"> 1. All biological resources mitigation, monitoring, and compliance measures proposed and agreed to by the project owner; 2. All biological resources conditions of certification identified as necessary to avoid or mitigate impacts; 3. All biological resource mitigation, monitoring and compliance measures required in federal agency terms and conditions such as those provided in the USFWS Biological Opinion; 4. All sensitive biological resources to be impacted, avoided, or mitigated by project construction, operation, and closure; 5. All required mitigation measures for each sensitive biological resource; 6. A detailed description of measures that shall be taken to avoid or mitigate temporary disturbances from construction activities; 7. All locations on a map, at an approved scale, of sensitive biological resource areas subject to disturbance and areas requiring temporary protection and avoidance during construction and operation; 8. Aerial photographs, at an approved scale, of all areas to be disturbed during project construction activities; include one set prior to any site or related facilities mobilization disturbance and one set subsequent to completion of project construction. Provide planned timing of aerial photography and a description of why times were chosen. Provide a final accounting of the before/after acreages and a determination of whether additional habitat compensation is necessary in the Construction Termination Report; 9. Duration for each type of monitoring and a description of monitoring methodologies and frequency; 10. Performance standards to be used to help decide if/when proposed mitigation is or is not successful; 11. All performance standards and remedial measures to be implemented if performance standards are not met; 12. A discussion of biological resources-related facility closure measures including a description of funding mechanism(s); and 13. A process for proposing plan modifications to BLM's Authorized Officer and the CPM and appropriate agencies for review and approval; and 	<p>Owner shall submit the BRMIMP to the BLM Authorized Officer and the CPM at least 60 days prior to start of any project-related site disturbance activities. The BRMIMP shall contain all of the required measures included in all biological Conditions of Certification. No ground disturbance may occur prior to approval of the final BRMIMP by BLM's Authorized Officer and the CPM.</p> <p>BLM's Authorized Officer and the CPM, in consultation with other appropriate agencies, will determine the BRMIMP's acceptability within 45 days of receipt. If there are any permits that have not yet been received when the BRMIMP is first submitted, these permits shall be submitted to BLM's Authorized Officer and the CPM within five days of their receipt, and the BRMIMP shall be revised or supplemented to reflect the permit condition within at least 10 days of their receipt by the project owner. Ten days prior to site and related facilities mobilization the revised BRMIMP shall be resubmitted to BLM's Authorized Officer and the CPM. Owner shall notify BLM's Authorized Officer and the CPM and no less than five working days before implementing any modifications to the approved BRMIMP to obtain BLM's Authorized Officer and CPM approval.</p> <p>Any changes to the approved BRMIMP must also be approved by BLM's Authorized Officer and the CPM and in consultation with appropriate agencies to ensure no conflicts exist. Implementation of BRMIMP measures (construction activities that were monitored, species observed) will be reported in the Monthly Compliance Reports by the Designated Biologist. Within 30 days after completion of project construction, the project owner shall provide to BLM's Authorized Officer and the CPM, for review and approval, a written construction termination report identifying which items of the BRMIMP have been completed, a summary of all modifications to mitigation measures made during the project's site mobilization, ground disturbance, grading, and construction phases, and which mitigation and monitoring items are still outstanding.</p>	X	X	7/15/2010	Submitted	7/16/2010		
Biological Resources	BIO-08	<p>The project owner shall undertake appropriate measures to manage the construction site and related facilities in a manner to avoid or minimize impacts to desert tortoise. Methods for clearance surveys, fence installation, tortoise handling, artificial burrow construction, egg handling and other procedures would be consistent with those described in the Guidelines for Handling Desert Tortoise During Construction Projects (Desert Tortoise Council 1999) or more current guidance provided by CDFG and USFWS. The project owner shall also implement all terms and conditions described in the Biological Opinion prepared by USFWS. These measures include, but are not limited to, the following:</p> <ol style="list-style-type: none"> 1. Fence Installation. To avoid impacts to desert tortoises the proposed fence alignment shall be flagged and the alignment surveyed within 24 hours prior to the initiation of construction of tortoise-exclusion fence. Surveys shall be conducted by the Designated Biologist(s) using techniques approved by the USFWS and CDFG. Biological Monitors may assist the Designated Biologist under his or her supervision. These surveys shall provide 100-percent coverage of all areas to be disturbed and an additional transect along both sides of the fence line. This fence line transect will cover an area approximately 90 feet wide centered on the fence alignment. Transects would be no greater than 30 feet apart. All desert tortoise burrows, and burrows constructed by other species that might be used by desert tortoises, shall be examined to assess occupancy of each burrow by desert tortoises and handled in accordance with USFWS-approved protocol. 2. Fence Installation. Prior to the initiation of construction activities for each solar plant, the project owner shall enclose the boundary of the affected solar plant with permanent desert tortoise exclusionary fencing or combined with permanent security and tortoise exclusionary fencing that would be attached to the bottom of the chain link fencing. The fence installation shall be supervised by the Designated Biologist and monitored by the Biological Monitors to ensure the safety of any tortoise present. <ol style="list-style-type: none"> a. Fence Material and Installation. The permanent tortoise exclusionary fencing shall consist of galvanized hard wire cloth 1-1/2 inch by 2-inch mesh sunk 12 inches into the ground, and 24 inches above the ground (but not less than 18 inches above the ground) (USFWS 2008). The fencing shall be buried approximately 6 inches below ground or bent at a right angle towards the outside of the project site and covered with dirt, rocks or gravel to discourage the tortoise from digging under the fence b. Security Gates. Security gates shall be designed with minimal ground clearance to deter ingress by tortoises. The gates may be electronically activated to open and close immediately after the vehicle(s) have entered or exited to prevent the gates from being kept open for long periods of time. Cattle grating designed to safely exclude desert tortoise shall be installed at the gated entries to discourage tortoises from gaining entry 	<p>All mitigation measures and their implementation methods shall be included in the BRMIMP and implemented. Implementation of the measures shall be reported in the Monthly Compliance Reports by the Designated Biologist. Within 30 days after completion of desert tortoise clearance surveys the Designated Biologist shall submit a report to BLM's Authorized Officer, the CPM, USFWS, and CDFG describing how each of the mitigation measures described above has been satisfied. The report shall include the desert tortoise survey results, capture and release locations of any relocated desert tortoises, and any other information needed to demonstrate compliance with the measures described above.</p>		X	11/15/2010	In progress			
Biological Resources	BIO-08 (Continued)	<ol style="list-style-type: none"> c. Utility Corridor Fencing. The utility rights-of-way shall be temporarily fenced on each side of the right-of-way prior to ground disturbing activities to prevent desert tortoise entry during construction. Temporary fencing must be capable of preventing desert tortoises from entering the work area with supporting stakes shall be sufficiently spaced to maintain fence integrity. The Designated Biologist or Biological Monitor shall be present to supervise all construction activities occurring within the areas bounded by temporary fencing. d. Fence Inspections. Following installation of the desert tortoise exclusion fencing for both the permanent site fencing and temporary fencing in the utility corridors, the fencing shall be regularly inspected. Permanent fencing shall be inspected monthly and during/following all major rainfall events. Any damage to the fencing shall be temporarily repaired immediately to keep tortoises out of the site, and permanently repaired within two days of observing damage. Inspections of permanent site fencing shall occur for the life of the project. Temporary fencing must be inspected weekly and, where drainages intersect the fencing, during and immediately following major rainfall events. All temporary fencing shall be repaired immediately upon discovery and, if the fence may have Digital photographs of the permitted tortoise entry while damaged, the Designated Biologist shall inspect the area for tortoise. 3. Clearance Surveys. Following construction of the security fence and the attached tortoise exclusion fence, the fenced area shall be cleared of tortoises by Biological Monitors under the supervision of the Designated Biologist. Two complete passes with complete coverage shall be conducted as described above. If a desert tortoise is located on the second survey, a third survey would be conducted. Transects would be no wider than 30 feet. Each separate survey would be walked in a different direction to allow opposing angles of observation. Vegetation salvage operations shall not begin until the area is deemed free of desert tortoises. 4. Burrow Searches. During clearance surveys all potential desert tortoise burrows within the fenced area shall be inspected to determine if tortoises are present. In some cases, a fiber optic scope may be needed to determine presence or absence within a deep burrow. To prevent reentry by a tortoise or other wildlife, all burrows shall be collapsed once absence has been determined. Tortoises taken from burrows and from elsewhere on the site shall be relocated or translocated as described in the Desert Tortoise Relocation/Translocation Plan. 			X	11/15/2010	In progress			

Biological Resources	BIO-08 (Continued)	<p>5. Burrow Excavation/Handling. All potential desert tortoise burrows located would be excavated by hand by a Biological Monitor, tortoises removed, and collapsed or blocked to prevent occupation by desert tortoises. Burrows inhabited by tortoises shall be excavated using hand tools under the supervision of the Designated Biologist. If excavated during May through July, the Biological Monitor would search for desert tortoise nests/eggs, which are typically located near the entrance to burrows. All desert tortoise handling and removal, and burrow excavations, including nests, would be conducted by the Designated Biologist or a Biological Monitor in accordance with the Service-approved protocol (Desert Tortoise Council 1994, revised 1999). If the Desert Tortoise Council releases a revised protocol for handling of desert tortoises before initiation of project activities, the revised protocol would be implemented for the project.</p> <p>6. Monitoring During Clearing. Following the tortoise clearance and translocation, workers and heavy equipment shall be allowed to enter the project site to perform vegetation salvage and earth work such as clearing, grubbing, leveling, trenching, and installation of heliostats. A Biological Monitor shall monitor clearing and grading activities to find and move tortoises missed during the initial tortoise clearance survey. Should a tortoise be discovered, it shall be relocated or translocated as described in the Desert Tortoise Relocation/Translocation Plan to an area approved by the Designated Biologist.</p> <p>7. Reporting. The Designated Biologist shall record the following information for any desert tortoises handled:</p> <p>a) the locations (narrative and maps) and dates of observation;</p> <p>b) general condition and health, including injuries state of healing and whether desert tortoise voided their bladders;</p> <p>c) location moved from and location moved to (using GPS technology);</p> <p>d) gender, carapace length, and diagnostic markings (i.e., identification numbers or marked lateral scutes);</p> <p>e) ambient temperature when handled and released; and</p> <p>f) digital photograph of each handled desert tortoise as described in the paragraph below. Desert tortoise moved from within project areas shall be marked for future identification as described in Guidelines for Handling Desert Tortoise during Construction Projects (Desert Tortoise Council 1999) or more current guidance on the USFWS website. carapace, plastron, and fourth costal scute shall be taken. Scutes shall not be notched for identification.</p>					11/15/2010	In progress				
Biological Resources	BIO-09	<p>The project owner shall develop and implement a final Desert Tortoise Relocation/Translocation Plan (Plan) that is consistent with current USFWS approved guidelines, including the recently released "Translocation of Desert Tortoises (Mojave Population) from Project Sites: Plan Development Guidance, US Fish and Wildlife Service, August 2010" and meets the approval of BLM's Authorized Officer, USFWS, and CPM in consultation with CDFG. The final Plan shall be based on the draft Desert Tortoise Relocation/Translocation Plan prepared by the applicant dated May 2009 and modifications to this plan identified in the BA amendment dated June 21, 2010, and shall include all revisions deemed necessary by BLM's Authorized Officer, USFWS, and the CPM in consultation with the CDFG. Translocation of tortoise into the Mojave National Preserve will require fencing of roads within 10 km (6.2 miles) of receptor sites. Since this fencing is required as part of the translocation, it would not count towards the fencing identified in BIO-17, desert tortoise compensatory mitigation.</p>	<p>Within 60 days of publication of the Energy Commission Decision the project owner shall provide BLM's Authorized Officer and the CPM with the final version of a Desert Tortoise Relocation/Translocation Plan that has been reviewed and approved by BLM's Authorized Officer, USFWS and CPM in consultation with CDFG. BLM's Authorized Officer and the CPM will determine the plan's acceptability within 15 days of receipt of the final plan. All modifications to the approved translocation must be made only after consultation with BLM's Authorized Officer, USFWS, and the CPM, in consultation with CDFG.</p> <p>Within 30 days after initiation of translocation activities, the Designated Biologist shall provide to BLM's Authorized Officer and the CPM for review and approval, a written report identifying which items of the Plan have been completed, and a summary of all modifications to measures made during implementation of the Plan.</p>	X	X		7/2/2010	Approved by BLM, USFWS. Awaiting CEC approval	9/27/2010			
Biological Resources	BIO-10	<p>The project owner shall provide Energy Commission and BLM representatives with reasonable access to the project site and mitigation lands under the control of the project owner and shall otherwise fully cooperate with the Energy Commission's and BLM's efforts to verify the project owner's compliance with, or the effectiveness of, mitigation measures set forth in the conditions of certification. The project owner shall hold the Designated Biologist, the Energy Commission, and BLM harmless for any costs the project owner incurs in complying with the management measures, including stop work orders issued by BLM's Authorized Officer, the CPM, or the Designated Biologist. The Designated Biologist shall do the following:</p> <ol style="list-style-type: none"> 1. Notify BLM's Authorized Officer and the CPM and at least 14 calendar days before initiating vegetation salvage or ground disturbing activities; 2. Immediately notify BLM's Authorized Officer and the CPM in writing if the project owner is not in compliance with any conditions of certification, including but not limited to any actual or anticipated failure to implement mitigation measures within the time periods specified in the conditions of certification; 3. Remain onsite daily while vegetation salvage, grubbing, grading and heliostat installation activities are taking place to avoid or minimize take of listed species, to check for compliance with all impact avoidance and minimization measures, and to check all exclusion zones to ensure that signs, stakes, and fencing are intact and that human activities are restricted in these protective zones. 4. Maintain and check desert tortoise exclusion fences on a daily basis to ensure the integrity of the fence is maintained. The Designated Biologist shall be present onsite to monitor construction and determine fence placement during fence installation. 5. Conduct compliance inspections at a minimum of once per month after clearing, grubbing, grading, and heliostat installation activities are completed and submit a monthly compliance report to BLM's Authorized Officer and the CPM ; 6. No later than January 31 of every year the ISEGS facility remains in operation, provide BLM's Authorized Officer and the CPM an annual Listed Species Status Report, which shall include, at a minimum: <ol style="list-style-type: none"> 1) a general description of the status of the project site and construction activities, including actual or projected completion dates, if known; 2) a copy of the table in the BRMIMP with notes showing the current implementation status of each mitigation measure; and 3) an assessment of the effectiveness of each completed or partially completed mitigation measure in minimizing and compensating for project impacts; 	<p>No later than 2 calendar days following the above required notification of a sighting, kill, or relocation of a listed species, the project owner shall deliver to BLM's Authorized Officer, the CPM, CDFG, and USFWS via FAX or electronic communication the written report from the Designated Biologist describing all reported incidents of injury, kill, or relocation of a listed species, identifying who was notified, and explaining when the incidents occurred. In the case of a sighting in an active construction area, the project owner shall, at the same time, submit a map (e.g., using Geographic Information Systems) depicting both the limits of construction and sighting location to BLM's Authorized Officer, the CPM, CDFG and USFWS.</p>		X	X	TBD	As needed				

Biological Resources	BIO-10 (Continued)	<p>7. Ensure that all observations of listed species and their sign during project activities are reported to the Designated Biologist for inclusion in the next monthly compliance report submitted to BLM's Authorized Officer and the CPM;</p> <p>8. No later than 45 days after the first sale of power provide BLM's Authorized Officer and the CPM a Final Listed Species Mitigation Report that shall include, at a minimum:</p> <ol style="list-style-type: none"> 1) a copy of the table in the BRMIMP with notes showing when each of the mitigation measures was implemented; 2) all available information about project-related incidental take of listed species; 3) information about other project impacts on the listed species 4) construction dates; 5) an assessment of the effectiveness of conditions of certification in minimizing and compensating for project impacts; 6) recommendations on how mitigation measures might be changed to more effectively minimize and mitigate the impacts of future projects on the listed species; and 7) any other pertinent information, including the level of take of the listed species associated with the project. <p>9. In the event of a sighting in an active construction area (e.g., with equipment, vehicles, or workers), injury, kill, or relocation of any listed species, notify BLM's Authorized Officer, the CPM, CDFG and USFWS immediately by phone and if no event later than noon on the business day following the event if it occurs outside normal business hours so that the agencies can determine what further actions, if any, are required to protect listed species;</p> <p>10. Prepare written follow-up notification via FAX or electronic communication to these agencies within 2 calendar days of the incident and include the following information as relevant:</p> <ol style="list-style-type: none"> a. If a desert tortoise is injured as a result of project related activities during construction, the Designated Biologist will immediately take it to a BLM- and CPM-approved wildlife rehabilitation and/or veterinarian clinic. Any veterinarian bills for such injured animals will be paid by the project owner. Following phone notification as required above, BLM's Authorized Officer, the CPM, CDFG, and USFWS will determine the final disposition of the injured animal, if it recovers. Written notification shall include, at a minimum, the date, time, location, circumstances of the incident, and the name of the facility where the animal was taken. b. If a desert tortoise is killed by project-related activities during construction, or if a desert tortoise is otherwise found dead submit a written report with the same information as an injury report. These desert tortoises shall be salvaged according to guidelines described in Salvaging Injured, Recently Dead, Ill, and Dying Wild, Free-Roaming Desert Tortoise prepared by Kristin Berry, June 2001. The project owner shall pay to have these desert tortoises necropsied. The report will include the date and time of the finding or incident. c. The CPM may issue the project owner a written stop work order to suspend any activity related to the construction or operation of the project for an appropriate period determined in consultation with BLM in order to prevent or remedy a violation of one or more conditions of certification (including but not limited to failure to comply with reporting, monitoring, or habitat acquisition obligations) or to prevent the illegal take of an endangered, threatened, or candidate species. The project owner shall comply with the stop work order immediately upon receipt thereof. 									
Biological Resources	BIO-11	<p>During construction the project owner shall implement all feasible measures to avoid or minimize impacts to biological resources, including the following:</p> <ol style="list-style-type: none"> 1. Limit Disturbance Areas. The boundaries of all areas to be disturbed (including staging areas, access roads, and sites for temporary placement of spoils) shall be delineated with stakes and flagging prior to construction activities in consultation with the Designated Biologist. Spoils and topsoil shall be stockpiled in disturbed areas lacking native vegetation and which do not provide habitat for special-status species. All disturbances, project vehicles and equipment shall be confined to the flagged areas. 2. Minimize Road Impacts. New and existing roads that are planned for construction, widening, or other improvements shall not extend beyond the flagged impact area as described above. All vehicles passing or turning around will do so within the planned impact area or in previously disturbed areas. Where new access is required outside of existing roads or the construction zone, the route will be clearly marked (i.e., flagged and/or staked) prior to the onset of construction. 3. Minimize Traffic Impacts. Vehicular traffic during project construction and operation shall be confined to existing routes of travel to and from the project site, and cross country vehicle and equipment use outside designated work areas shall be prohibited. The speed limit shall not exceed 20 miles per hour within the project area, on maintenance roads for linear facilities, or on access roads to the ISEGS site. 4. Monitor During Construction. The Designated Biologist or Biological Monitor shall be present at the construction site during all project activities that have potential to disturb soil, vegetation, and wildlife. In areas that have not been fenced with tortoise exclusion fencing and cleared, the USFWS-approved Designated Biologist or Biological Monitor shall walk immediately ahead of equipment during brushing and grading activities. 5. Minimize Impacts of Transmission/Pipeline Alignments, Roads, Staging Areas. Staging areas for construction on the plant site shall be within the area that has been fenced with desert tortoise exclusion fencing and cleared. For construction activities outside of the plant site (transmission line, pipeline alignments) access roads, pulling sites, and storage and parking areas shall be designed, installed, and maintained with the goal of minimizing impacts to native plant communities and sensitive biological resources. Transmission lines and all electrical components shall be designed, installed, and maintained in accordance with the Avian Power Line Interaction Committee's (APLIC's) Suggested Practices for Avian Protection on Power Lines (APLIC 2006) and Mitigating Bird Collisions with Power Lines (APLIC 2004) to reduce the likelihood of large bird electrocutions and collisions. 6. Avoid Use of Toxic Substances. Road surfacing and sealants as well as soil bonding and weighting agents used on unpaved surfaces shall be non-toxic to wildlife and plants. 7. Minimize Lighting Impacts. Facility lighting shall be designed, installed, and maintained to prevent side casting of light towards wildlife habitat. To minimize risk of avian collisions with the heliostat towers, only flashing or strobe lights shall be installed on these towers. 	<p>All mitigation measures and their implementation methods shall be included in the BRMIMP. Implementation of the measures shall be reported in the Monthly Compliance Reports by the Designated Biologist. Within 30 days after completion of project construction, the project owner shall provide to BLM's Authorized Officer and the CPM, for review and approval, a written construction termination report identifying how measures have been completed.</p> <p>The Designated Biologist shall report summarizing all available data (species of carcass, date and location collected, and cause of death) describing bird and other carcasses collected within the project site each year.</p>		X	X	Monthly	Ongoing			

Biological Resources	BIO-11 (Continued)	<p>8. Badger Surveys. Concurrent with the desert tortoise clearance survey, the Designated Biologist or Biological Monitors shall perform a preconstruction survey for badger dens in the project area, including areas within 250 feet of all project facilities, utility corridors, and access roads. If badger dens are found, each den shall be classified as inactive, potentially active, or definitely active. Inactive dens shall be excavated by hand and backfilled to prevent reuse by badgers. Potentially and definitely active dens shall be monitored by the Designated Biologist or Biological Monitor for three consecutive nights using a tracking medium (such as diatomaceous earth or fire clay) at the entrance. If no tracks are observed in the tracking medium after 3 nights, the den shall be excavated and backfilled by hand. If tracks are observed, the applicant shall develop and implement a trapping and relocation plan in consultation with the Designated Biologist and CDFG. BLM approval may be required prior to release of badgers on public lands.</p> <p>9. Gila Monster Surveys. If a Gila monster is encountered during clearance surveys or during construction, a qualified biologist experienced with Gila monster survey and capture techniques shall capture and maintain it in a cool (<85 degrees F) environment until it can be released to a safe, suitable area beyond the construction impact zone. The biologist shall coordinate with staff and CDFG biologists in the transport and relocation of any Gila monsters encountered during project surveys, construction, or operation.</p> <p>10. Avoid Vehicle Impacts to Desert Tortoise. Parking and storage shall occur within the area enclosed by desert tortoise exclusion fencing to the extent feasible. No vehicles or construction equipment parked outside the fenced area shall be moved prior to an inspection of the ground beneath the vehicle for the presence of desert tortoise. If a desert tortoise is observed, it will be left to move on its own. If it does not move within 15 minutes, a Designated Biologist or Biological Monitor may remove and relocate the animal to a safe location if temperatures are within the range described in the USFWS protocol (www.fws.gov/ventura/speciesinfo/protocols/guidelines and Desert Tortoise Council 1999).</p> <p>11. Avoid Wildlife Pitfalls:</p> <p>a. Backfill Trenches. At the end of each work day, the Designated Biologist shall ensure that all potential wildlife pitfalls (trenches, bores, and other excavations) outside the area fenced with desert tortoise exclusion fencing have been backfilled. If backfilling is not feasible, all trenches, bores, and other excavations shall be sloped at a 3:1 ratio at the ends to provide wildlife escape ramps, or covered completely to prevent wildlife access, or fully enclosed with desert tortoise-exclusion fencing. All trenches, bores, and other excavations outside the areas permanently fenced with desert tortoise exclusion fencing shall be inspected periodically throughout the day and at the end of each workday by the Designated Biologist or a Biological Monitor. Should a tortoise or other wildlife become trapped, the Designated Biologist or Biological Monitor shall remove and relocate the individual as described in the Desert Tortoise Relocation/Translocation Plan. Any wildlife encountered during the course of construction shall be allowed to leave the construction area unharmed.</p>										
Biological Resources	BIO-11 (Continued)	<p>b. Avoid Entrapment of Desert Tortoise. Any construction pipe, culvert, or similar structure with a diameter greater than 3 inches, stored less than 6 inches aboveground and within desert tortoise habitat (i.e., outside the permanently fenced area) for one or more nights, shall be inspected for tortoises before the material is moved, buried or capped.</p> <p>As an alternative, all such structures may be capped before being stored outside the fenced area, or placed on pipe racks. These materials would not need to be inspected or capped if they are stored within the permanently fenced area after the clearance surveys have been completed.</p> <p>c. Cap Helicostat Holes. All holes drilled for helicostats shall be capped the same day they are drilled. Caps shall remain on the holes until helicostats are inserted into the holes, and shall be securely fastened and sufficiently sturdy to cover the helicostat holes indefinitely. The caps shall exclude all wildlife, and shall be inspected weekly by the Designated Biologist or Biological Monitors to ensure that the caps remain in place and that birds and terrestrial wildlife have not become trapped.</p> <p>12. Minimize Standing Water. Water applied to construction areas and dirt roads for dust abatement shall use the minimal amount needed to meet safety and air quality standards in an effort to prevent the formation of puddles, which could attract desert tortoises, common ravens and coyotes to construction sites.</p> <p>13. Dispose of Roadkilled Animals. Road killed animals or other carcasses detected in the project area or on roads near the project area shall be picked up immediately and delivered to the Biological Monitor. Within 1 working day of receipt of the carcass the Biological Monitor shall contact CDFG and/or USFWS for guidance on disposal or storage of the carcass.</p> <p>14. Photographic Documentation of Bird Carcasses. On-site personnel shall photograph and record the location of all bird carcasses encountered and location data to the Designated Biologist. The Designated Biologist shall identify the bird, ascertain a cause of death if possible, maintain a database of this information for all bird carcasses, and each year of operation shall provide a report summarizing this information to the CPM, BLM's Authorized Officer, CDFG, and USFWS.</p> <p>15. Minimize Spills of Hazardous Materials. All vehicles and equipment shall be maintained in proper working condition to minimize the potential for fugitive emissions of motor oil, antifreeze, hydraulic fluid, grease, or other hazardous materials. The Designated Biologist shall be informed of any hazardous spills immediately as directed in the project Hazardous Materials Plan. Hazardous spills shall be immediately cleaned up and the contaminated soil properly disposed of at a licensed facility. Servicing of construction equipment shall take place only at a designated area. Service/maintenance vehicles shall carry a bucket and pads to absorb leaks or spills.</p>										
Biological Resources	BIO-11 (Continued)	<p>16. Worker Guidelines. During construction all trash and food-related waste shall be placed in self-closing containers and removed daily from the site. Workers shall not feed wildlife or bring pets to the project site. Except for law enforcement personnel, no workers or visitors to the site shall bring firearms or weapons. Vehicular traffic shall be confined to existing routes of travel to and from the project site, and cross country vehicle and equipment use outside designated work areas shall be prohibited. The speed limit when traveling on Colosseum Road and other dirt access routes within desert tortoise habitat shall not exceed 20 miles per hour.</p> <p>17. Monitor Ground Disturbing Activities Prior to Site Mobilization. If grounddisturbing activities are required prior to site mobilization, such as for geotechnical borings or hazardous waste evaluations, a Designated Biologist or Biological Monitor shall be present to monitor any actions that could disturb soil, vegetation, or wildlife.</p>										
Biological Resources	BIO-12	<p>The project owner shall implement a Raven Management Plan that is consistent with the most current USFWS-approved raven management guidelines, and which meets the approval of USFWS, BLM Authorized Officer, and the CPM in consultation with CDFG. The draft Raven Management Plan submitted by The applicant (CH2M Hill 2008f) shall provide the basis for the final plan, subject to review and revisions from USFWS, BLM Authorized Officer and the CPM in consultation with CDFG. The project owner shall submit payment to the project sub-account of the REAT Account held by the National Fish and Wildlife Foundation (NFWF) to support the USFWS Regional Raven Management Program. The amount shall be a one-time payment of \$105 per acre of permanent disturbance.</p>	<p>At least 60 days prior to start of any project-related ground disturbance activities, the project owner shall provide BLM's Authorized Officer, the CPM, USFWS, and CDFG with the final version of a Raven Management Plan that has been reviewed by USFWS, CDFG, BLM, and the Energy Commission staff. The CPM and BLM's Authorized Officer will determine the plan's acceptability within 15 days of receipt of the final plan. All modifications to the approved Raven Management Plan shall be made only after approval by BLM's Authorized Officer and the CPM in consultation with the USFWS and CDFG. No less than 10 days prior to the start of any Project-related ground disturbance activities, the project owner shall provide documentation to the CPM, CDFG and USFWS that the one-time fee for the USFWS Regional Raven Management Program has been deposited in the REAT-NFWS subaccount for the Project. Within 60 days after completion of project construction, the project owner shall provide to the CPM for review and approval, a written report identifying which items of the Raven Management Plan have been completed, a summary of all modifications to mitigation measures made during the project's construction phase, and which items are still outstanding.</p>	X	X		7/15/2010	Approved	7/2/2010	10/7/2010		

Biological Resources	BIO-13	<p>The project owner shall implement a Weed Management Plan that meets the approval of BLM and the CPM. The draft Weed Management Plan submitted by the applicant (CH2M Hill 2008e) shall provide the basis for the final plan, subject to review and revisions from BLM and CPM, in consultation with USFWS, and CDFG. In addition to describing weed eradication and control methods, and a reporting plan for weed management during and after construction, the final Weed Management Plan shall include at least the following Best Management Practices as specified in BLM's Programmatic Environmental Impact Statement for Vegetation Treatments Using Herbicides on Bureau of Land Management lands in 17 Western States to prevent the spread and propagation of noxious weeds:</p> <ol style="list-style-type: none"> 1. Limit the size of any vegetation and/or ground disturbance to the absolute minimum, and limit ingress and egress to defined routes. 2. Maintain vehicle wash and inspection stations and closely monitor the types of materials brought onto the site. 3. Reestablish vegetation quickly on disturbed sites. 4. Monitoring and rapid implementation of control measures to ensure early detection and eradication for weed invasions. 5. Use only weed-free straw or hay bales used for sediment barrier installations, and weed-free seed. 6. Reclamation and revegetation shall occur on all temporarily disturbed areas, including pipelines, transmission lines, and staging areas. 	<p>At least 60 days prior to start of any project-related ground disturbance activities, the project owner shall provide BLM's Authorized Officer and the CPM with the final version of a Weed Management Plan. BLM's Authorized Officer and the CPM will determine the plan's acceptability within 15 days of receipt of the final plan. All modifications to the approved Weed Control Plan must be made only after consultation with the CPM, and BLM's Authorized Officer, in consultation with USFWS, and CDFG.</p> <p>Within 30 days after completion of project construction, the project owner shall provide to BLM's Authorized Officer and the CPM for review and approval, a written report identifying which items of the Weed Management Plan have been completed, a summary of all modifications to mitigation measures made during the project's construction phase, and which items are still outstanding.</p>	X	X	7/15/2010	Approved	7/7/2010	10/7/2010		
Biological Resources	BIO-14	<p>The project owner shall develop and implement a revised Closure, Revegetation and Rehabilitation Plan (Plan) in cooperation with BLM and Energy Commission staff, to guide site restoration and closure activities, including methods proposed for revegetation of disturbed areas immediately following construction and rehabilitation and revegetation upon closure of the facility. This plan must address preconstruction salvage and relocation of succulent vegetation from the site on an onsite nursery facility for storage and propagation of material to reclaim disturbed areas. In the case of unexpected closure, the plan assumes restoration activities could possibly take place prior to the anticipated lifespan of the plant. The Plan shall address all issues discussed in Biological Resources Appendix-B: Issues to Address in the Closure, Revegetation and Rehabilitation Plan, and shall include but is not limited to the following elements in the revised plan:</p> <ol style="list-style-type: none"> 1. Plan Purpose: The plan shall explicitly identify the objective of the revegetation plan to be re-creation of the types of habitats lost during construction and operation of the proposed solar energy facility. The final revegetation plan shall include introduction of mid- to late-successional species. 2. Standards/Monitoring: Performance standards for success thresholds, weed cover, performance monitoring methods and schedule, and maintenance monitoring in the revised Plan shall be conducted as described in Biological Resources Appendix B. 3. Baseline Surveys – Baseline vegetation surveys for planning restoration efforts shall be conducted as described in Biological Resources Appendix B. 4. Vegetation Clearing: Clearing of vegetation shall be limited to areas for which final maps are provided to BLM before approval of the ROW. Clearing of vegetation will be permitted on roads, utility routes, heliostat maintenance pathways, building and parking areas, and temporary staging areas provided these are specifically documented on a georeferenced construction alignment drawing or aerial photo or shape file, showing the exact locations of soil disturbance. BLM will consider relocating specific installations prior to the beginning of construction and during construction on a case by case basis but will not approve additional acreage beyond that addressed in the current application. 5. Vegetation Mowing: Vegetation mowing shall be limited to areas adjoining vehicle pathways used for heliostat installation to allow installation of the heliostat pylon and allow for tracking clearance under the heliostat. Vegetation mowing may be repeated during the life of the facility to maintain appropriate clearance for heliostat tracking. 	<p>No more than 30 days from the Energy Commission Decision and BLM Record of Decision the project owner shall provide BLM's Authorized Officer and the CPM with a draft version of the revised Closure, Revegetation and Rehabilitation Plan.</p> <p>At least 60 days prior to start of any project-related ground disturbance activities, the project owner shall provide BLM's Authorized Officer and the CPM with the final version of the Closure, Revegetation and Rehabilitation Plan that has been reviewed and approved by BLM Authorized Officer, and the CPM. All modifications to the approved Revegetation and Reclamation Plan must be made only after consultation with BLM's Authorized Officer and the CPM.</p> <p>Within 30 days after completion of project construction for each phase of development, the project owner shall provide to BLM's Authorized Officer and the CPM for review and approval, a written report identifying which items of the Closure, Revegetation and Rehabilitation Plan have been completed, a summary of all modifications to mitigation measures made during the project's construction phase, and which items are still outstanding.</p> <p>At least one year prior to planned closure and decommissioning the project owner shall submit to the BLM-Authorized Officer and the CPM a final Closure Plan for review to determine if revisions are needed. The project owner shall incorporate all required revisions to the final Closure Plan and submit to the BLM-Authorized Officer and the CPM no less than 90 days prior to the start of ground disturbing activities associated with closure and decommissioning activities.</p>	X	X	X	6/18/2010	Approved	7/6/2010	10/7/2010	
Biological Resources	BIO-14 (Continued)	<ol style="list-style-type: none"> 6. Succulent Salvage: The revised Plan shall include a table that shows proposed succulent salvage by species the number of plants onsite, the lower threshold height for salvage, the number in each size class, and the fate of plants not salvaged. An inventory and map of proposed succulent transplants shall be provided as described in Appendix A. Information gained from succulent transplant experience gained in ISEGS 1 shall be applied to future salvage operations, as described in Biological Resources Appendix B. 7. Seed Handling: Seed collection, testing and application shall be conducted as described in Biological Resources Appendix B, with collection areas within 10 miles of the project boundaries and on similar terrain, soil, exposure, slope, and elevation to the project site. 8. Soil Preparation: Soil descriptions, compaction measurements, mulch application, soil storage, seed farming, mycorrhizal inoculation, and biological crust collection and storage shall be conducted as described in Biological Resources Appendix B. Soil stockpiles shall not be placed on areas that support special-status plant species or other sensitive biological resources. 9. Weed Management: Weed management activities needed to control weeds resulting from mirror washing shall be conducted as described in Biological Resources Appendix B. 10. Final Closure Plan. A Final Closure Plan, which addresses the final revegetation and rehabilitation activities upon closure and decommissioning of the project, shall be completed as part of the revised Plan. The Final Closure Plan shall include a cost estimate, adjusted for inflation, reflecting the costs of the revegetation, rehabilitation, and monitoring for the duration of time estimated to achieve the objective of recreating plant communities impacted by the project 11. The project owner shall implement the Closure, Revegetation, and Rehabilitation Plan, Revision 3, dated July 6, 2010, with the following modifications. <ol style="list-style-type: none"> a. The long-term soil stockpiles, as discussed in Table 5-2 of the Plan, shall be no higher than 6 feet. b. The Preliminary Seeding Plan for Short-Term Disturbed Areas, and to be used as the basis for the seeding during final project decommissioning, shall be based upon the species list provided in Table 7-1 of the Plan rather than the species list in Table 7-2. The list may be modified at the time of decommissioning based on seed availability. c. Concrete will be removed to a minimum depth of 6 feet unless it is shown that a particular area is prone to flood hazards and a greater depth for concrete removal should be required. All concrete removed shall be hauled off the project site and disposed of in an approved facility. Crushed concrete shall not be used as backfill on the site during decommissioning. d. Succulents salvaged during project construction shall not be sold by the project owner. Should excess succulents be removed that cannot be transplanted in the Succulent Nursery Area, their disposition will be managed by BLM. 									
Biological Resources	BIO-15	<p>Pre-construction nest surveys shall be conducted if construction activities will occur from February 1 through August 31. The Designated Biologist or Biological Monitor conducting the surveys shall be experienced bird surveyors familiar with standard nest-locating techniques and shall perform surveys in accordance with the following guidelines:</p> <ol style="list-style-type: none"> 1. Surveys shall cover all potential nesting habitat in the project site or within 500 feet of the boundaries of the site and line facilities; 2. At least two pre-construction surveys shall be conducted, separated by a minimum 10-day interval. One of the surveys needs to be conducted within the 14-day period preceding initiation of construction activity. Additional follow-up surveys may be required if periods of construction inactivity exceed three weeks, an interval during which birds may establish a nesting territory and initiate egg laying and incubation; 3. If active nests are detected during the survey, a buffer zone (protected area surrounding the nest, the size of which is to be determined by the Designated Biologist in consultation with CDFG) and monitoring plan shall be developed. Nest locations shall be mapped and submitted, along with a report stating the survey results, to the CPM; and 4. The Designated Biologist shall monitor the nest until he or she determines that nestlings have fledged and dispersed; activities that might, in the opinion of the Designated Biologist, disturb nesting activities, shall be prohibited within the buffer zone until such a determination is made. 	<p>At least 10 days prior to the start of any project-related ground disturbance activities, the project owner shall provide the CPM a letter-report describing the findings of the pre-construction nest surveys, including the time, date, and duration of the survey; identity and qualifications of the surveyor (s); and a list of species observed. If active nests are detected during the survey, the report shall include a map or aerial photo identifying the location of the nest and shall depict the boundaries of the no-disturbance buffer zone around the nest.</p>	X		10/3/2010	Approved	10/3/2010	10/7/2010		

Biological Resources	BIO-16	<p>The project owner shall implement the following measures for the burrowing owl:</p> <ol style="list-style-type: none"> 1. Complete a pre-construction survey for burrowing owls for any areas subject to disturbance from construction prior to the start of initial ground disturbance activities. If burrowing owls are present within 500 feet of the project site or linear facilities then the CDFG burrowing owl guidelines (1995) shall be implemented; 2. Monitor burrowing owl pairs within 500 feet of any activities that exceed ambient noise and/or vibration levels; 3. Establish a 500-foot set back from any active burrow and construct additional noise/visual barriers (e.g., haystacks or plywood fencing) to shield the active burrow from construction activities. Post signs (in both English and Spanish) designating presence of sensitive area; 4. Passively relocate all owls occupying burrows that will be temporarily or permanently impacted by the project and implement the following CDFG take avoidance measures: <ol style="list-style-type: none"> a. Occupied burrows shall not be disturbed during the nesting season (February 1 – August 31) unless a qualified biologist can verify through non-invasive methods that egg laying/incubation has not begun or juveniles are foraging independently and able to fly; b. A qualified biologist must passively relocate owls, confirm that owls have left burrows prior to ground-disturbing activities, and monitor the burrows. Once evacuation is confirmed, the biologist should hand excavate burrows and then fill burrows to prevent reoccupation; and c. Relocation of owls shall be approved by and conducted in consultation with CDFG. 5. Submit a Burrowing Owl Mitigation and Monitoring Plan to the CPM and CDFG for review and approval prior to relocation of owls (and incorporate it into the project's BRMIMP) as well as a construction termination report with results to CDFG and CPM 30 days after completing owl relocation and monitoring and at least 30 days prior to the start of commercial operation. 	<p>The project owner shall complete a pre-construction survey for burrowing owls for any areas subject to disturbance from construction no more than 30 days prior to the start of any project-related site disturbance activities, and submit a report to CDFG, USFWS, BLM's Authorized Officer and the CPM that describes when surveys were completed, observations, mitigation measures, and the results of the mitigation. If burrowing owls are to be protected on site or relocated, the project owner shall coordinate with and report to CDFG, USFWS, BLM and Energy Commission staff on these proposed activities in a Burrowing Owl Mitigation and Monitoring Plan. Within 30 days after completion of owl relocation and monitoring, and the start of ground disturbance or at least 90 days prior to the sale of power, the project owner shall provide to the CDFG, CPM and BLM a written construction termination report identifying how measures have been completed.</p>	X	X		10/7/2010	Approved	10/15/2010	Approved	
Biological Resources	BIO-17	<p>To fully mitigate for habitat loss and potential take of desert tortoise, the project owner shall provide compensatory mitigation at a 3:1 ratio for impacts to 3,582 acres or the area disturbed by the final project footprint. At least two thirds of the 3:1 mitigation requirement shall be achieved by acquisition, in fee title or in easement, of no less than 7,146 acres of land suitable for desert tortoise or twice the area disturbed by the final project footprint. The Energy Commission's compensatory mitigation requirement consists of habitat acquisition at a 2:1 ratio as well as the BLM's 1:1 desert tortoise mitigation approach of habitat enhancement. The project owner shall provide financial Security as specified in this condition in an amount sufficient to ensure the entire 3:1 mitigation requirement, including acquisition, initial habitat improvements and long-term management for the compensation lands to be acquired and the mitigation to be provided through BLM. The 1:1 compensatory mitigation, that will satisfy both the BLM's mitigation requirements and a portion of the Energy Commission's mitigation requirements, shall be developed in accordance with BLM's desert tortoise mitigation requirements as described in the Northern and Eastern Mojave Desert Management Plan (BLM 2002). BLM's compensatory mitigation plan, serving as one third of the 3:1 mitigation ratio consists of desert tortoise habitat enhancement including installation of at least 50 miles of desert tortoise exclusion fencing on roadways in the Northeastern Mojave Recovery Unit, and habitat restoration of at least 50 routes within the Desert Wildlife Management Area. The project owner may elect to satisfy the requirements of this condition by depositing funds into the Renewable Energy Action Team (REAT) Account established with the National Fish and Wildlife Foundation (NFWF) [Deposit of Funds to a NFWF Account] as described in #4 of this condition. The Energy Commission requirements for acquisition of 7,164 acres of compensation lands and habitat enhancements through BLM shall include all of the following: BLM's compensatory mitigation plan, serving as one third of the 3:1 mitigation ratio required to satisfy CESA, shall consist of desert tortoise habitat enhancement, including installation of at least 50 miles of desert tortoise exclusion fencing on roadways in the Northeastern Mojave Recovery Unit, and habitat restoration of at least 50 routes within the Desert Wildlife Management Area. Areas identified for fencing include: the boundary of the town of Nipton, Nipton Road between the California-Nevada border and the junction of I-15, Ivanpah Road, Interstate 15 from Nipton Road to the Ivanpah Dry Lake, US Highway 96 through Piute Valley from the California-Nevada border to the town of Golfs, opr the boundary for the community of Golfs. Some of these roads (e.g. portions of Nipton Road and Ivanpah Road) may require fencing associated with the tortoise translocation plan. Any fencing deemed necessary for tortoise translocation would be above and beyond the 50 miles required by this mitigation measure. In lieu of acquiring lands and implementing habitat enhancement or rehabilitation activities itself, the projectowner may satisfy the requirements of this condition by depositing funds into the Renewable Energy Action Team (REAT) Account established with the National Fish and Wildlife Foundation (NFWF) in an amount equivalent to the sum of: 1) BLM's compensatory mitigation cost to cover the cost of fencing and route restoration calculated using formulas for biological Resource Compensation/Mitigation Cost Estimate Breakdown for use with the REAT-NFWF Mitigation Account Table of Estimated Costs dated July 13, 2010; 2) the Energy Commission's Complementary Mitigation Security for acquisition; and 3) the Long-Term Maintenance of Fencing and Habitat Restoration Fee; and 3) the NFWF administrative fee calculation, as shown in the following table:</p> <p>Biological Resources Mitigation/Compensation Cost Estimate Table - July 13, 2010 corrected Desert Tortoise Compensation</p>	<p>The Project owner shall provide the CPM with written notice prior to the start of ground-disturbing activities of the Project site. If purchase of 7,164 acres of mitigation lands as described in this condition, or as described in BIO-22 (phasing), is not completed prior to the start of grounddisturbing activities, the Project owner shall provide the CPM with approved Security prior to the start of ground-disturbing activities. The Security shall be in accordance with Item # 4 of this condition and other requirements of this condition, allowing for either Acquisition of Mitigation Lands by the project owner or use of the NFWF Account to satisfy this condition, and with BIO-22 (phasing) if the project owner elects to use that option. If the project owner elects to Deposit Funds to the NFWF Account, it shall provide documentation of deposit of the required security to the REAT-NFWF Account prior to start of ground-disturbing activities on the project site. Within 6 months of the Energy Commission decision, the project owner shall provide to the CPM for review and approval a Property Analysis Record (PAR) or PAR-like analysis to establish the appropriate amount for the long-term maintenance fee to fund maintenance of the proposed enhancement actions (desert tortoise exclusion fencing and DWMA route restoration). The project owner shall deposit the long-term maintenance fee into the REAT-NFWF account or another third-party recipient acceptable to the CPM in consultation with CDFG and BLM within 18 months of the Energy Commission decision. Starting with the first year following construction and continuing for the duration of project impacts, the project owner shall provide to the CPM, BLM and CDFG an annual report describing: the results of the annual inspection of fencing and rehabilitated routes; a summary of fence repairs and maintenance of reclaimed routes completed during the year; and recommendations and a cost estimate for repairs and maintenance activities needed for the upcoming year. A minimum of three months prior to acquisition of the property, the project owner shall submit a formal acquisition proposal to the CPM, CDFG, USFWS and BLM describing the parcels intended for purchase. No later than 18 months following the publication of the Energy Commission Decision the project owner shall provide written verification to the CPM and CDFG that the Energy Commission compensation lands or conservation easements have been acquired and recorded in favor of the approved recipient(s). The project owner, or an approved third party, shall complete and provide written verification of the proposed compensation lands acquisition within 18 months of the start of project ground disturbing activities. If NFWF or another approved third party is being used for the acquisition, the project owner shall nsure that funds needed to accomplish the acquisition are transferred in timely manner to facilitate the planned acquisition and to ensure the land can be acquired and transferred prior to the 18-month deadline. Within six months of the land or easement purchase, as determined by the date on the title, the project owner, or an approved third party, shall provide CDFG and the CPM with a management plan for the Energy Commission compensation lands and associated funds. The CPM shall review and approve the management plan, in consultation with CDFG, BLM and the USFWS. Within 90 days after completion of project construction, the project owner shall provide to the CPM and CDFG an analysis with the final accounting of the amount of habitat disturbed during project construction. If habitat disturbance exceeds 3,582 acres, the project owner shall provide a compensation plan to the CPM and CDFG for their review and approval.</p>	X	X		9/15/2010	Approved	10/4/2010	10/7/2010	

<p>Biological Resources</p>	<p>BIO-17 (Continued)</p>	<p>3rd Party Administrative Costs (Land Cost x 10%)6 \$ 358,200.00 Agency cost to accept land donation7 (Land Cost x 15%) x 1.17 (17% of the 15% for overhead) \$ 628,641.00 SUBTOTAL - Acquisition and Initial Site Work \$ 7,084,341.00 Long-term Management and Maintenance Fund (LTMM) fee at \$1450/acre 8 \$ 5,193,900.00 NFWF Fees Establish Project Specific Account \$ 12,000.00 NFWF Management fee* for Acquisition and Enhancement Actions (Subtotal x 3%) \$ 212,530.23 NFWF Management Fee for LTMM account (LTMM x 1%) \$ 51,939.00 Subtotal of NFWF Fees \$ 276,469.23 TOTAL Estimated cost for deposit in project specific REAT-NFWF Account \$ 12,554,710.23 acquisition of 7,164 acres of compensation lands and maintenance of fencing and habitat enhancements shall include the following: 1. Responsibility for Acquisition of Lands: The project owner may delegate its responsibility for acquisition of compensation lands to a third party, such as a non-governmental organization supportive of Mojave Desert habitat conservation. Such delegation shall be subject to approval in writing by the CPM, in consultation with BLM, CDFG and USFWS, prior to land acquisition, enhancement or management activities. If habitat disturbance exceeds that described in this analysis, the project owner shall be responsible for funding acquisition, habitat improvements and long-term management of additional compensation lands or additional funds required to compensate for any additional habitat disturbances. Additional funds shall be based on the adjusted market value of compensation lands at the time of construction to acquire and manage habitat. Water and mineral rights shall be included as part of the land acquisition. Agreements to delegate land acquisition to CDFG or an approved third party and to manage compensation lands shall be implemented within 18 months of the Energy Commission's decision. 2. Selection Criteria for Compensation Lands. The compensation lands selected for acquisition shall: a. be as close to the project site as possible; b. provide good quality habitat for desert tortoise with capacity to regenerate naturally when disturbances are removed; c. be near larger blocks of lands that are either already protected or planned for protection, or which could feasibly be protected long-term by a public resource agency or a non-governmental organization dedicated to habitat preservation; d. be connected to lands currently occupied by desert tortoise, ideally with populations that are stable, recovering, or likely to recover; e. not have a history of intensive recreational use or other disturbance that might make habitat recovery and restoration infeasible; f. not be characterized by high densities of invasive species, either on or immediately adjacent to the parcels under consideration, that might jeopardize habitat recovery and restoration, and g. not contain hazardous wastes. 3. Review and Approval of Compensation Lands Prior to Acquisition. A minimum of three months prior to acquisition of the property, the project owner shall submit a formal acquisition proposal to the CPM, CDFG, USFWS and BLM describing the parcel(s) intended for purchase. This acquisition proposal shall discuss the suitability of the proposed parcel(s) as compensation lands for desert tortoise in relation to the criteria listed above. Approval from the CPM, in consultation with BLM, CDFG, and the USEWS, shall be required for acquisition of all parcels comprising the 7,164 acres.</p>	<p>If the project owner elects to satisfy its mitigation obligations by paying an in-lieu fee instead of acquiring compensation lands, pursuant to Fish and Game code sections 2069 and 2099 or any other applicable in-lieu fee provision, the Project owner shall notify the Commission that it would like a determination that the Project's in-lieu fee proposal meets CEQA and CESA requirements. No more than 60 days prior to ground-disturbing project activities, the project owner shall provide to the CPM for review and approval a PAR or PAR-like analysis to establish the appropriate amount for the long-term maintenance fee to fund maintenance of the proposed enhancement actions (desert tortoise exclusion fencing and DWMA route restoration). No more than 30 days prior to ground-disturbing project activities, the project owner shall deposit the long-term maintenance fee to the REAT-NFWF account or another third-party recipient approved by the CPM in consultation with CDFG. Starting with the first year following construction and continuing for the duration of project impacts, the project owner shall provide to the CPM and CDFG an annual report describing: the results of the annual inspection of fencing and rehabilitated routes; a summary of fence repairs and maintenance of reclaimed routes complete during the year; and recommendations and a cost estimate for repairs and maintenance activities needed for the upcoming year. If the project owner elects to satisfy its mitigation obligations by paying an in-lieu fee instead of acquiring compensation lands, pursuant to Fish and Game code sections 2069 and 2099 or any other applicable in-lieu fee provision, the Project owner shall notify the Commission that it would like a determination that the Project's in-lieu fee proposal meets CEQA and CESA requirements.</p>	<p>X</p>	<p>X</p>		<p>9/15/2010</p>	<p>Approved</p>	<p>10/4/2010</p>	<p>10/7/2010</p>	
<p>Biological Resources</p>	<p>BIO-17 (Continued)</p>	<p>4. Energy Commission Compensation Land Mitigation Security The project owner shall provide financial assurances to the CPM and CDFG with copies of the document(s) to BLM and the USFWS, to guarantee that an adequate level of funding is available to implement the mitigation requirements described in this condition (Condition of Certification BIO-17). The CPM funds shall use the Security solely for implementation of the mitigation measures associated with the project in the event the mitigation is not provided as required in this condition. The Security may be in the form of an irrevocable letter of credit, a pledged savings account or another form of security ("Security") approved by the CPM. Security must be provided to the CPM prior to initiating ground-disturbing project activities. Prior to submittal to the CPM, the Security shall be approved by the CPM. The Security estimates described below and in Biological Resources Table 1 (Estimate of Total Security), Table 2 (Estimate of Phase 1 Security), and Table 3 (Estimate of Phase 2 Security) are based on the most current guidance from the REAT agencies (Desert Renewable Energy REAT Biological Resource Compensation/Mitigation Cost Estimate Breakdown for use with the REAT-NFWF Mitigation Account, July 23, 2010) and may be revised with updated information. [These tables are new text to the PMPD but are not marked as such for ease of reading.] The Security shall be provided in conformance with one of the following two options or a combination of the two options if approved by the CPM: a. Project Owner Acquisition of Compensation Lands - If the project owner is locating, acquiring and protecting compensation lands itself, the project owner shall provide the CPM with Security in the estimated amount of \$33,183,648 prior to initiating any ground-disturbing project-related activities; if the project owner elects to construct the project in two phases in accordance with Condition of Certification BIO-22, the project owner shall provide Security in the amount of \$11,876,448 prior to initiating any ground-disturbing activities associated with Phase 1, and shall provide Security in the amount of \$21,307,200 prior to initiating any ground-disturbing activities associated with Phase 2; or b. Deposit of Funds to a NFWF Account - If the project owner elects to comply with mitigation requirements by funding NFWF's implementation of the project's mitigation, the project owner shall deposit funds in the estimated amount of \$33,909,523 to the NFWF Account; if the project owner elects to construct the project in two phases in accordance with Condition of Certification BIO-22, the project owner shall deposit funds in the amount of \$12,163,207 prior to initiating any ground-disturbing activities associated with Phase 1, and shall provide Security in the amount of \$21,788,316 prior to initiating any ground-disturbing activities associated with Phase 2. Actual Cost. The actual cost to comply with this condition will vary depending on the final footprint of the Project, and the actual costs of acquiring, improving and managing the compensation lands.</p>	<p>See above sections</p>	<p>X</p>	<p>X</p>		<p>9/15/2010</p>	<p>Approved</p>	<p>10/4/2010</p>	<p>10/7/2010</p>	

Biological Resources	BIO-17 (Continued)	<p>5. Compensation Lands Acquisition Conditions The project owner shall comply with the following conditions relating to acquisition of the Energy Commission compensation lands after the CDFG and the CPM, in consultation with BLM, CDFG and the USFWS, have approved the proposed compensation lands and received Security as applicable and as described above.</p> <p>a. Preliminary Report: The project owner, or approved third party, shall provide a recent preliminary title report, initial hazardous materials survey report, biological analysis, and other necessary documents for the proposed 7,164 acres. All documents conveying or conserving compensation lands and all conditions of title/easement are subject to a field review and approval by CDFG and the CPM, in consultation with BLM and the USFWS, California Department of General Services and, if applicable, the Fish and Game Commission and/or the Wildlife Conservation Board.</p> <p>b. Title/Conveyance: The project owner shall transfer fee title or a conservation easement to the 7,164 acres of compensation lands to CDFG under terms approved by the CPM and CDFG. Alternatively, a non-profit organization qualified to manage compensation lands (pursuant to California Government Code section 65965) and approved by the CPM in consultation with CDFG may hold fee title or a conservation easement over the habitat mitigation lands. If the approved non-profit organization holds title, a conservation easement shall be recorded in favor of CDFG in a form approved by CDFG and CPM. If the approved non-profit holds a conservation easement, CDFG or another designee of the CPM shall be named a third party beneficiary. If a Security is provided, the project owner or an approved third party shall complete the proposed compensation lands acquisition within 18 months of the start of project ground-disturbing activities.</p> <p>c. Initial Habitat Improvement Fund. The project owner shall fund the initial protection and habitat improvement of the 7,164 acres. Alternatively, a non-profit organization may hold the habitat improvement funds if they are qualified to manage the compensation lands (pursuant to California Government Code section 65965) and if they meet the approval the CPM in consultation with CDFG. If CDFG takes fee title to the compensation lands, the habitat improvement fund must go to CDFG.</p> <p>d. Long-term Management Maintenance Fund. Prior to ground-disturbing project activities, the project owner shall provide to CDFG a nonwasting capital endowment in the amount determined through the Property Analysis Record (PAR) or PAR like analysis that will be conducted for the 7,164 acres. Alternatively, a non-profit organization may hold the long-term management and maintenance fees if they are qualified to manage the compensation lands (pursuant to California Government Code section 65965) and if they meet the approval of the CPM in consultation with CDFG. If CDFG takes fee title to the compensation lands, the long-term management and maintenance fee must go to CDFG, where it will be held in the special deposit fund established pursuant to California Government Code section 16370. If the special deposit fund is not used to manage the long-term management and maintenance fund, the California Wildlife Foundation or similarly approved entity identified by CDFG shall manage the long-term management and maintenance fund for CDFG and with CDFG supervision.</p>	See above sections	x	x		9/15/2010	Approved	10/4/2010	10/7/2010	
Biological Resources	BIO-17 (Continued)	<p>e. Interest, Principal, and Pooling of Funds. The project owner and the CPM in consultation with the CDFG, shall ensure that an agreement is in place with the long-term management and maintenance fund holder/manager to ensure the following conditions:</p> <ul style="list-style-type: none"> • Interest. Interest generated from the initial capital endowment shall be available for reinvestment into the principal and to the long-term operation, management, and protection of the approved compensation lands, including reasonable administrative overhead, biological monitoring, improvements to carrying capacity, law enforcement measures, and any other action approved by CDFG designed to protect or improve the habitat values of the compensation lands. • Withdrawal of Principal. The long-term management and maintenance fund principal shall not be drawn upon unless such withdrawal is deemed to ensure the continued viability of the species on the 7,164 acres. • Pooling Long-Term Management and Maintenance Funds. CDFG, or a CPM approved non-profit organization qualified to hold long-term management and maintenance fund pursuant to California Government Code section 65965, may pool the long-term management and maintenance fund with other such funds for the operation, management, and protection of the 7,164 acres for local populations of desert tortoise. However, for reporting purposes, the long-term management and maintenance fund must be tracked and reported individually to the CDFG and CPM. • Reimbursement Fund. The project owner shall provide reimbursement to the CPM, CDFG or an approved third party for reasonable expenses incurred during title, easement, and documentation review; expenses incurred from other state or state approved federal agency reviews; and overhead related to providing compensation lands. The project owner is responsible for all compensation lands acquisition/easement costs, including but not limited to, title and document review costs, as well as expenses incurred from other state agency reviews and overhead related to providing compensation lands to the department or approved third party; escrow fees or costs; environmental contaminants clearance; and other site cleanup measures. <p>6. Long-term Maintenance of Fencing and Habitat Restoration. In addition to the funding described above for the acquisition, enhancement and management of the Energy Commission compensation lands, the Project owner shall provide sufficient funds to ensure that long-term management and maintenance is provided for the habitat improvements required by BLM for the ISEGS project, including fencing of roads in the Northeastern Mojave Recovery Unit, and habitat restoration of routes in the Desert Wildlife Management Area. The maintenance shall occur as long as the roads continue to operate as functional roadways and for the duration of project impacts. This long-term maintenance fee shall be calculated upon completion of a Property Analysis Record (PAR) or PAR-like analysis of the proposed enhancement actions, and shall be sufficient to fund annual inspections and repairs/maintenance of all fencing and habitat improvements completed as part of the BLM mitigation requirements for the ISEGS project. The Project owner may choose to satisfy its mitigation obligations identified in this Decision by paying an in lieu fee instead of acquiring compensation lands, pursuant to Fish and Game code sections 2069 and 2099 or any other applicable in-lieu fee provision, to the extent the in-lieu fee provision is found by the Commission to be in compliance with CEQA and CESA requirements.</p>	See above sections	x	x		9/15/2010	Approved	10/4/2010	10/7/2010	

Biological Resources	BIO-18	<p>The project owner shall implement the following measures to avoid and minimize impacts to special-status plant species. Items 2, 3, 5, 6, 7, 10, and 11 are recommended exclusively by Energy Commission staff.</p> <p>1. On-Site Plant Avoidance/Minimization Areas: To the extent feasible the project owner shall avoid and minimize disturbance to all special-status plant species within the project site. Impact avoidance (i.e., protection from project-related impacts of any kind through removal of acreage from the project footprint) and impact minimization efforts shall occur in all feasible locations. Impact avoidance shall focus on areas that support the highest density and diversity of special-status plant species and shall remove, at a minimum, the three areas totaling 476 acres and labeled "Rare Plant Mitigation Area" Project Description Figure 13 from the project footprint. The natural gas pipeline shall be aligned and narrowed to avoid special-status plant occurrences north of Ivanpah 3 as depicted in Project Description Figure 13. Impact minimization shall be conducted throughout the site.</p> <p>Impact minimization within the solar field shall consist of protecting small perimeters ("halos") Mojave milkweed, desert pincushion, and Rusby's desert-mallow plants as indicated in the applicant's January 2010 draft plan (Exhibit B1, Appendix B).</p> <p>2. Protection Goals: The project owner shall implement all feasible measures to protect 75 percent of the individuals of Mojave milkweed, Rusby's desert-mallow, desert pincushion, nine-awned pappus grass, and Parish's club-cholla within the project area (as mapped in Figure 5-3 of the applicant's final botanical survey report [CH2M Hill 2008a]). Each year during construction the measurement of percent protection achieved shall be calculated based on a comparison of numbers of individuals of each of these five species present in this area identified before construction compared to numbers remaining post-construction. These pre- and postconstruction plant numbers shall be based on floristic surveys conducted by a qualified botanist.</p> <p>3. Identify and Establish Special-Status Plant Protection Areas The project owner shall identify Special-Status Plant Protection Areas for exclusion from the project footprint and avoidance of project-related impacts of any kind to facilitate achieving the 75 % protection goal. To accurately identify the boundaries of these areas, pre-construction floristic surveys shall be conducted by a qualified botanist at the appropriate time of year for special-status plant identification including both spring and summer/fall blooming periods. Summer/fall surveys will be conducted after rains that are likely to cause plant germination and may be suspended in years where no such rains occur. The surveys shall encompass at a minimum the three areas totalling 476 acres and labelled "Rare Plant Mitigation Area" in Project Description Figure 13 and shall extend 150 feet on both sides of the proposed gas pipeline alignment and 250 feet out from the project fence line. The locations of the Special-Status Plant Protection Areas shall be clearly depicted on all final maps and project drawings and descriptions for exclusions of all project activities.</p>	<p>No less than 30 days following the publication of the Energy Commission Decision (ECD) the owner shall submit final maps and design drawings depicting the location of Special-Status Plant Protection Areas (SSPPA) within and adjacent to the project site, and shall identify the species and numbers of plants within each of the SSPPAs.</p> <p>No less than 30 days following publication of ECD owner shall submit draft versions of the SSPP & Monitoring Plan, the SSPA Remedial Action Plan, the Seed Collection Plan, and the Gas Pipeline Revegetation Monitoring Plan for review by the CPM, BLM's AA, and CDFG. The owner shall also provide a cost estimate for implementation of these plans which is subject to approval by the CPM, BLM's AA, and the CDFG. The final plans shall be submitted for approval by the CPM, in consultation with BLM's AA, CDFG, and CNPS within 90 days of the publication of the Commission Decision. The final plans shall be incorporated into the BRMIMP. At this time, the owner shall also provide security sufficient to fund the implementation of the plans.</p> <p>Within 30 days of the start of construction, the owner shall submit copies of the contract with the CPM-approved seed contractor and the check for seed collection and curation fees to the CPM. The project owner shall identify special-status plants occurrences within 250 feet of the project fence line during the pre-construction plant surveys described above. A qualified botanist shall delineate the boundaries of these special status plant occurrences at least 30 days prior to the initiation of ground disturbing activities. On January 31st of each year following construction the owner's qualified botanist shall submit a report, including CNDDDB field survey forms, describing results of off-site plant surveys for Mojave milkweed and Rusby's desert-mallow to the BLM's authorized officer, the CPM, CDFG, and CNDDDB. Submittal of survey reports shall continue for a maximum of 10 years until the same number of occurrences in the project area excluding the occurrences of Special-Status Plant Protection Areas.</p> <p>The project owner's qualified botanist shall submit a completion report documenting fulfillment of target goals and which describe the number of new, previously undiscovered occurrences identified & mapped using GIS techniques for each species. Mapping results shall include GPS coordinates of the plants found. The DB shall maintain written & photographic records of the tasks described above, and summaries of these records shall be submitted along with the MCR to the CPM, BLM AA, and CDFG.</p> <p>During operation, the DB shall submit record summaries in the Annual Compliance Report for a period not < 10 years for the Gas Pipeline Revegetation Plan, and for the life of the project for the SSPP and Monitoring Plan, and the SSP Remedial Action Plan, including funding for the seed storage.</p>	X	X	X	6/18/10 Gas Pipeline Plan 11/1/2010 SS Plant Plan 11/10/2010 SS Plant Remedial Action Plan (Seed Collection Plan included)	Submitted	7/2/2010 (Gas Pipeline Plan) 11/1/2010 SS Plant Plan	11/10/2010 SS Plant Remedial Action Plan (Seed Collection Plan included)	
Biological Resources	BIO-18 (continued)	<p>4. Protection of Adjacent Occurrences: The project owner shall identify special-status plants occurrences within 250 feet of the project fence line during the pre-construction plant surveys described above. A qualified botanist shall delineate the boundaries of these special status plant occurrences prior to the initiation of ground disturbing activities. These flagged special status plant occurrences shall be designated as Environmentally Sensitive Areas on plans and specifications, and shall be protected from accidental impacts during construction (e.g. vehicle traffic, temporary placement of soils or vegetation) and from thindirect impacts of project operation (e.g., herbicide spraying, changes in upstream hydrology, etc).</p> <p>5. Develop and Implement a Special-Status Plant Protection and Monitoring Plan The project owner shall develop and implement a Special-Status Plant Protection and Monitoring Plan for special-status plants occurring within the Special-Status Plant Protection Areas and on-site areas designated for impact minimization. The goal of the Special-Status Plant Protection and Monitoring Plan shall be to maintain the special-status plant species as healthy, reproductive populations that can be sustained in perpetuity.</p> <p>At a minimum, the Special-Status Plant Protection and Monitoring Plan shall:</p> <ul style="list-style-type: none"> • establish baseline conditions and numbers of the plant occurrences in all protected areas (i.e., those to be excluded from the footprint and on-site areas to be protected) and success standards for protection of special-status plant occurrences; • provide information about microhabitat preferences and fecundity, essential pollinators, reproductive biology, and propagation and culture requirements for each special-status species; • describe measures (e.g., fencing, signage) to avoid direct construction and operation impacts to special-status plants within all protected areas • describe measures to avoid or minimize indirect construction and operations impacts to special-status plants within protected areas (e.g., runoff from mirror-washing, use of soil stabilizers/tackifiers, alterations of hydrology from drainage diversions, erosion/sedimentation from disturbed soils upslope, herbicide drift, the spread of non-native plants, etc). • provide a monitoring schedule and plan for assessing the numbers and condition of special-status plants; and • identify specific triggers for remedial action (e.g., numbers of plants dropping below a threshold); 	<p>No less than 90 days prior to acquisition of the parcel (s) containing or adjacent to a known Mojave milkweed occurrence, the project owner, or a third-party approved by the CPM, in consultation with CDFG, shall submit a formal acquisition proposal to the CPM and CDFG describing the parcel(s) intended for purchase. Draft agreements to delegate land acquisition to CDFG or an approved third party and agreements to manage compensation lands shall be submitted to Energy Commission staff for review and approval (in consultation with CDFG) prior to land acquisition. Such agreements shall be mutually approved and executed at least 60 days prior to start of any project-related ground disturbance activities. The project owner shall provide written verification to the CPM that the compensation lands have been acquired and recorded in favor of the approved recipient(s). Alternatively, before beginning project ground disturbing activities, the project owner shall provide Security in accordance with this condition. Within 90 days after the land purchase, as determined by the date on the title, the project owner shall provide the CPM with a management plan for review and approval, in consultation with CDFG, for the compensation lands and associated funds.</p>								
Biological Resources	BIO-18 (continued)	<p>6. Develop Special-Status Plant Remedial Action Plan: The project owner shall develop a detailed Special-Status Plant Remedial Action Plan to be implemented if special-status plants within the 476 acres of protected area and on-site minimization "halos" fail to meet success standards described in the Special-Status Plant Protection and Monitoring Plan. The Plant Remedial Action Plan shall include specifications for ex-situ/offsite conservation of seed and other propagules, and the seed bank and other symbionts contained in the topsoil where these plants occur. The remedial measures described in the Plant Remedial Action Plan shall not substitute for plant protection or other mitigation measures. The Special-Status Plant Remedial Action Plan shall include, at a minimum:</p> <ul style="list-style-type: none"> • guidelines for pre-construction seed collection (and/or other propagules) for each species; • specifications for collecting, storing, and preserving the upper layer of soil containing seed and important soil organisms; • detailed replacement planting program with biologically meaningful quantitative and qualitative success criteria (see Pavlik 1996), monitoring specifications, and triggers for remedial action; and • ecological specifications for suitable planting sites. <p>7. Seed Collection: Implementation of the Special-Status Plant Remedial Action Plan would require a source of local source of seeds/propagules. In addition, seed collection would serve to preserve germplasm in the event that all mitigation fails. The project owner shall develop and implement a Seed Collection Plan to collect and store seed for Mojave milkweed, Rusby's desert-mallow, desert pincushion, nine-awned pappus grass, and Parish's club-cholla. The source of these seeds shall be from plants proposed for removal within the project footprint. The project owner shall engage the services of a qualified contractor approved by the CPM to undertake seed collection and storage.</p> <p>8. Gas Pipeline Revegetation and Monitoring: In the natural gas pipeline construction corridor where disturbed soils will be revegetated, the topsoil excavated shall be segregated, kept intact, and protected, under condition shown to sustain seed bank viability. At a minimum, the top 2 cm of the soil shall be separately stored and preserved. Topsoil salvage, storing, and replacement shall be replaced in its original vertical orientation following pipeline installation ensuring the integrity of the top 2 cm in particular. The project owner shall prepare a Gas Pipeline Revegetation and Monitoring Plan targeted at re-establishment of Rusby's desert-mallow, desert pincushion, Mojave milkweed, and potentially other special-status plant species. The Gas Pipeline Revegetation and Monitoring Plan shall identify success criteria for re-establishment and shall continue for a period of no less than 10 years until the defined success criteria are achieved. The Gas Pipeline Revegetation and Monitoring Plan shall include measures for seeding or other remedial actions. If no individuals of Rusby's desert-mallow, desert pincushion, or Mojave milkweed, are located during the first year of monitoring, the project owner shall conduct supplemental seeding or other remedial measures in the area disturbed by natural gas pipeline installation.</p>									

Biological Resources	BIO-18 (continued)	<p>9. <u>Surveys on Acquired and Public Lands:</u> The project owner shall conduct floristic surveys for Rusby's desert-mallow and Mojave milkweed on all lands that will be acquired as part of the desert tortoise compensatory mitigation requirements (see Condition of Certification BIO-17). The goal of the surveys shall be to identify at least the same number of occurrences on off-site compensation or public lands as the number of occurrences in the project area excluding the occurrences in the Special-Status Plant Protection Areas in Project Description Figure 13. If this goal is not met by surveys on proposed acquisition lands, additional surveys shall be conducted within suitable habitat on public lands. To be counted toward fulfillment of the goal the occurrences must reflect new data not previously documented in other survey efforts. The survey requirements shall include the following:</p> <ul style="list-style-type: none"> All surveys shall be conducted by a qualified botanist in accordance with BLM, CDFG, and CNPS plant survey guidelines Surveys shall occur the first spring after construction begins and continue each year for a maximum of ten years until the same number of Mojave Milkweed and Rusby's desert-mallow occurrences are identified on acquisition lands and/or public lands as located outside Special-Status Plant Protection Areas; For each year surveys are conducted yearly survey results shall be provided to the CPM, BLM's Authorized Officer and CDFG, and shall include CNDDDB field survey forms for all special-status plant species encountered during the surveys; and All field survey forms shall be submitted to the CNDDDB at the time of submittal to the CPM, BLM and CDFG; and The project owner's qualified botanist shall submit a completion report documenting fulfillment of the target goals and which describe the number of new, previously undiscovered occurrences identified and mapped. Locations shall be reported with GPS coordinates compatible with inclusion in a GIS database. <p>10. <u>Security for Implementation of Plans:</u> The project owner shall provide security adequate to fund implementation of the Special-Status Plant Protection and Monitoring Plan, the the Special-Status Plant Remedial Action Plan for the life of the project, as well as the Seed Collection Plan, and the Gas Pipeline Revegetation Monitoring Plan.</p> <p>11. <u>Acquire Off-Site Occurrence of Mojave Milkweed or Adjacent Land:</u> The project owner shall acquire, in fee or in easement, a parcel or parcels of land that includes at least 30 acres supporting a viable occurrence of Mojave milkweed (of suitable habitat adjacent to a known occurrence). The terms and conditions of this acquisition or easement shall be as described in Condition of Certification BIO-17 with the additional criteria that the Mojave milkweed mitigation lands:</p> <ol style="list-style-type: none"> provide habitat for the special-status plant species that is of similar or better quality (e.g., in terms of native plant composition) than that impacted; 2) contain OR about a known occurrence of Mojave milkweed, ideally with populations that are stable, recovering, or likely to recover, that shares the same watershed as the land; and 3) be adequately sized and buffered to support self-sustaining special-status plant populations. These mitigation lands may be included with the desert tortoise mitigation lands ONLY if the above criteria are met. If sufficient new Mojave milkweed occurrences are discovered on desert tortoise compensation lands (not public lands) in accordance with item 9 above prior to acquiring this land, the associated security shall be refunded to the project owner. 									
Biological Resources	BIO-19	<p>To compensate for project impacts to Nelson's bighorn sheep the project owner shall finance, construct and manage an artificial water source in the eastern part of the Clark Mountain range or in the State Line Hills outside of designated Wilderness. The project owner shall monitor and control noxious and invasive weeds within 100 feet of the artificial water source. Control of weeds shall be coordinated with the CPM and BLM staff and shall consist of removal by mechanical methods, rather than herbicides. To minimize potential impacts to Nelson bighorn sheep, the project owner shall not use barbed wire fence on the northern perimeter of the Ivanpah 3 site, unless the project owner provides evidence that such fencing is essential for security reasons.</p>	<p>Within 60 days of publication of the Energy Commission Decision the project owner shall submit to the BLM's Authorized Officer, the CPM and CDFG a Draft Bighorn Sheep Mitigation Plan identifying a proposed location for the artificial water source and providing plans for its construction and management. At least 60 days prior to start of any project-related ground disturbance activities, the project owner shall provide BLM's Authorized Officer and the CPM with the final version of the Bighorn Sheep Mitigation Plan that has been reviewed and approved by the CPM, BLM, and CDFG, and the Energy Commission staff. BLM's Authorized Officer and the CPM will determine the plan's acceptability within 30 days of receipt of the final plan.</p> <p>No later than 18 months following the publication of the Energy Commission Decision, the project owner shall provide written verification to BLM's Authorized Officer and the CPM that the construction of the artificial water source has been completed. At the same time, the project owner shall provide evidence of an agreement (Memorandum of Understanding) and a funding mechanism to provide ongoing maintenance of the water source by CDFG or some other party approved by BLM's Authorized Office and the CPM.</p>	X	X		7/12/2010	Approved	7/30/2010	10/7/2010	
Biological Resources	BIO-20	<p>The project owner shall implement the following measures to avoid, minimize and mitigate for impacts to ephemeral drainages:</p> <ol style="list-style-type: none"> <u>Acquire Off-Site Desert Wash:</u> The project owner shall acquire, in fee or in easement, a parcel or parcels of land that includes ephemeral washes with at least 175 acres of state jurisdictional waters. The terms and conditions of this acquisition or easement shall be as described in Condition of Certification BIO-17 with the additional criteria that the desert wash mitigation lands: 1) include at least 175 acres of state jurisdictional waters; 2) be characterized by similar soil permeability, hydrological and biological functions as the impacted drainages; and 3) be within the same watershed as the impacted wash. The desert wash mitigation lands may be included with the desert tortoise mitigation lands ONLY if the above three criteria are met. <u>Security for Implementation of Mitigation</u> A security in the form of an irrevocable letter of credit, pledged savings account or certificate of deposit for the amount of all mitigation measures pursuant to this condition of certification shall be submitted to, and approved by, the CPM, in consultation with CDFG, prior to commencing project activities within areas of CDFG jurisdiction. This amount shall be based on a cost estimate which shall be submitted to CDFG for review and to the CPM for approval within 60 days of the Energy Commission Decision's publication and prior to commencing project activities within areas of CDFG jurisdiction. Estimated security for acquisition of compensation lands for state waters is \$540,400. If the project owner elects to construct the project in two phases in accordance with Condition of Certification BIO-22, the project owner shall provide Security in the amount of \$179,104 prior to initiating any ground-disturbing activities associated with Phase 1, and shall provide Security in the amount of \$361,296 prior to initiating any ground-disturbing activities associated with Phase 2. The security shall be approved by the CPM, in consultation with CDFG's legal advisors, prior to its execution, and shall allow the CPM at its discretion to recover funds immediately if the CPM, in consultation with CDFG, determines there has been a default. <u>Preparation of Management Plan:</u> The project owner shall submit to Energy Commission CPM and CDFG a draft Management Plan that reflects site-specific enhancement measures for the drainages on the acquired compensation lands. The objective of the Management Plan shall be to enhance the wildlife value of the drainages, and may include enhancement actions such as weed control, fencing to exclude livestock, or erosion control. No later than 12 months after publication of the Energy Commission Decision the project owner shall submit a final Management Plan for review and approval to the CPM and CDFG. 	<p>No less than 90 days prior to acquisition of the parcel (s) containing 175 acres of waters of the state, the project owner, or a third-party approved by the CPM, in consultation with CDFG, shall submit a formal acquisition proposal to the CPM and CDFG describing the parcel(s) intended for purchase. Draft agreements to delegate land acquisition to CDFG or an approved third party and agreements to manage compensation lands shall be submitted to Energy Commission staff for review and approval (in consultation with CDFG) prior to land acquisition. Such agreements shall be mutually approved and executed at least 60 days prior to start of any project-related ground disturbance activities. The project owner shall provide written verification to the CPM that the compensation lands have been acquired and recorded in favor of the approved recipient(s). Alternatively, before beginning project ground disturbing activities, the project owner shall provide Security in accordance with this condition. Within 90 days after the land purchase, as determined by the date on the title, the project owner shall provide the CPM with a management plan for review and approval, in consultation with CDFG, for the compensation lands and associated funds.</p> <p>No fewer than 30 days prior to the start of work potentially affecting waters of the state, the project owner shall provide written verification (i.e., through incorporation into the BRMIMP) to the CPM that the above best management practices will be implemented and provide a discussion of work in waters of the state in Compliance Reports for the duration of the project.</p>		X		2011	Not yet started			

Biological Resources	BIO-20 (Continued)	<p>4. Right of Access and Review for Compliance Monitoring The CPM reserves the right to enter the project site or allow CDFG to enter the project site at any time to ensure compliance with these conditions. The project owner herein grants to the CPM and to CDFG employees and/or their representatives the right to enter the project site at any time, to ensure compliance with the terms and conditions and/or to determine the impacts of storm events, maintenance activities, or other actions that might affect the restoration and revegetation efforts. The CPM and CDFG may, at the CPM's discretion, review relevant documents maintained by the operator, interview the operator's employees and agents, inspect the work site, and take other actions to assess compliance with or effectiveness of mitigation measures.</p> <p>5. Notification: The project owner shall notify the CPM and CDFG, in writing, at least five days prior to initiation of project activities in jurisdictional areas as noted and at least five days prior to completion of project activities in jurisdictional areas. The project owner shall notify the CPM and CDFG of any change of conditions to the project, the jurisdictional impacts, or the mitigation efforts, if the conditions at the site of a proposed project change in a manner which changes risk to biological resources that may be substantially adversely affected by the proposed project. The notifying report shall be provided to the CPM and CDFG no later than seven days after the change of conditions is identified. As used here, change of condition refers to the process, procedures, and methods of operation of a project; the biological and physical characteristics of a project area; or the laws or regulations pertinent to the project as defined below. A copy of the notifying change of conditions report shall be included in the annual reports. a. Biological Conditions: a change in biological conditions includes but is not limited to, the following: 1) the presence of biological resources within or adjacent to the project area, whether native or non-native, not previously known to occur in the area; or 2) the presence of biological resources within or adjacent to the project area, whether native or nonnative, the status of which has changed to endangered, rare, or threatened, as defined in section 15380 of Title 14 of the California Code of Regulations.</p>	<p>No less than 90 days prior to acquisition of the parcel (s) containing 175 acres of waters of the state, the project owner, or a third-party approved by the CPM, in consultation with CDFG, shall submit a formal acquisition proposal to the CPM and CDFG describing the parcel(s) intended for purchase.</p> <p>Draft agreements to delegate land acquisition to CDFG or an approved third party and agreements to manage compensation lands shall be submitted to Energy Commission staff for review and approval (in consultation with CDFG) prior to land acquisition. Such agreements shall be mutually approved and executed at least 60 days prior to start of any project-related ground disturbance activities. The project owner shall provide written verification to the CPM that the compensation lands have been acquired and recorded in favor of the approved recipient(s). Alternatively, before beginning project ground disturbing activities, the project owner shall provide Security in accordance with this condition. Within 90 days after the land purchase, as determined by the date on the title, the project owner shall provide the CPM with a management plan for review and approval, in consultation with CDFG, for the compensation lands and associated funds.</p> <p>No fewer than 30 days prior to the start of work potentially affecting waters of the state, the project owner shall provide written verification (i.e., through incorporation into the BRMIMP) to the CPM that the above best management practices will be implemented and provide a discussion of work in waters of the state in Compliance Reports for the duration of the project.</p>									
Biological Resources	BIO-20 (Continued)	<p>b. Physical Conditions: a change in physical conditions includes, but is not limited to, the following: 1) a change in the morphology of a river, stream, or lake, such as the lowering of a bed or scouring of a bank, or changes in stream form and configuration caused by storm events; 2) the movement of a river or stream channel to a different location; 3) a reduction or other change in vegetation on the bed, channel, or bank of a drainage, or 4) changes to the hydrologic regime such as fluctuations in the timing or volume of water flows in a river or stream.</p> <p>c. Legal Conditions: a change in legal conditions includes, but is not limited to, a change in Regulations, Statutory Law, a Judicial or Court decision, or the listing of a species, the status of which has changed to endangered, rare, or threatened, as defined in section 15380 of Title 14 of the California Code of Regulations.</p> <p>6. Code of Regulations: The project owner shall provide a copy of the Streambed Impact Minimization and Compensation Measures from the Energy Commission Decision to all contractors, subcontractors, and the applicant's project supervisors. Copies shall be readily available at work sites at all times during periods of active work and must be presented to any CDFG personnel or personnel from another agency upon demand. The CPM reserves the right to issue a stop work order or allow CDFG to issue a stop work order after giving notice to the project owner, the CPM, if the CPM in consultation with CDFG, determines that the project owner has breached any of the terms or conditions or for other reasons, including but not limited to the following:</p> <p>a. The information provided by the applicant regarding streambed alteration is incomplete or inaccurate;</p> <p>b. New information becomes available that was not known to it in preparing the terms and conditions;</p> <p>c. The project or project activities as described in the Final Staff Assessment have changed; or</p> <p>d. The conditions affecting biological resources changed or the CPM, in consultation with CDFG, determines that project activities will result in a substantial adverse effect on the environment.</p> <p>7. Best Management Practices: The project owner shall also comply with the following conditions:</p> <p>a. The project owner shall minimize road building, construction activities and vegetation clearing within ephemeral drainages to the extent feasible.</p> <p>b. The project owner shall not allow water containing mud, silt, or other pollutants from grading, aggregate washing, or other activities to enter ephemeral drainages or be placed in locations that may be subjected to high storm flows.</p> <p>c. The project owner shall comply with all litter and pollution laws. All contractors, subcontractors, and employees shall also obey these laws, and it shall be the responsibility of the project owner to ensure compliance.</p> <p>d. Spoil sites shall not be located within drainages or locations that may be subjected to high storm flows, where spoil shall be washed back into a drainage.</p>										
Biological Resources	BIO-20 (Continued)	<p>e. Raw cement/concrete or washings thereof, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to vegetation or wildlife resources, resulting from project-related activities, shall be prevented from contaminating the soil and/or entering waters of the state. These materials, placed within or where they may enter a drainage or Ivanpah Dry Lake, by project owner or any party working under contract or with the permission of the project owner shall be removed immediately.</p> <p>f. No broken concrete, debris, soil, silt, sand, bark, slash, sawdust, rubbish, cement or concrete or washings thereof, oil or petroleum products or other organic or earthen material from any construction or associated activity of whatever nature shall be allowed to enter into, or placed where it may be washed by rainfall or runoff into, waters of the state.</p> <p>g. When operations are completed, any excess materials or debris shall be removed from the work area. No rubbish shall be deposited within 150 feet of the high water mark of any drainage.</p> <p>h. No equipment maintenance shall occur within 150 feet of any ephemeral drainage where petroleum products or other pollutants from the equipment may enter these areas under any flow.</p>										
Biological Resources	BIO-21-BLM	<p>The applicant shall consult with USFWS, BLM, and CFGD to obtain lists of special status plant species (i.e., Federally listed species, candidate species, BLM sensitive, and California state listed species) that have the potential for occurrence on the project area based on the current distribution of the species, habitat associations, and previously documented occurrences of the species within the project area. Based on these species' lists provided by these agencies, the BLM shall consider whether further field surveys shall be conducted during the appropriate season and within suitable habitat in the Project area utilizing survey protocols appropriate for the species' of interest. If special status plant species occurrences are identified, the preferred mitigation would consist of avoidance, whenever practical. If not feasible for special status species, off-site mitigation would be negotiated with the BLM.</p> <p>Effectiveness: This measure would be highly effective in collecting appropriate special status plant species data, if federal and state agencies indicate a reasonable probability of occurrences within the project area. Avoidance would protect the plants during construction, but operational activities may alter the microenvironment of the plants (e.g., water, sunlight, dust) sufficiently to adversely affect the plants. Off-site mitigation would compensate for losses.</p>	No Verification: see Effectiveness					N/A	Completed	N/A	N/A	

Biological Resources	BIO-21-CEC	<p>The Project owner shall prepare and implement an Avian and Bat Monitoring and Management Plan (Plan) to monitor death and injury of birds and bats from collisions with facility features including the solar receiver tower and reflective heliostat mirrors, and exposure to bright light and heat from concentrating sunlight. The Project owner shall use the monitoring data to inform and develop an adaptive management program that would avoid and minimize Project-related avian or bat impacts. Any Project-related bird or bat deaths or injuries shall be reported to the CPM, CDFG and USFWS, and then the CPM in consultation with CDFG and USFWS, shall then determine if the Project-related bird or bat deaths or injuries warrant implementation of adaptive management measures contained in the Plan. The study design for the Plan shall be approved by the CPM in consultation with CDFG and USFWS, and, once approved, shall be incorporated into the project's BRMIMP and implemented.</p> <p>During construction, bird and bat deaths or injuries shall be reported in the Monthly Compliance Report. For one year following the beginning of power plant operation, the Designated Biologist shall submit quarterly reports to the CPM, CDFG, and USFWS, describing the results of monitoring. The monthly and quarterly reports shall provide a detailed description of any Project-related bird or bat deaths or injuries detected during the monitoring study or at any other time, including describing the dates, species found injured or dead, where found, expected cause of injury or death, other appropriate results of monitoring, and a description of adaptive management measures proposed or implemented in accordance with any applicable CDFG or USFWS guidelines to avoid or minimize deaths or injuries. Following the completion of the fourth quarter of monitoring, the Designated Biologist shall prepare an Annual Report that summarizes the year's data, analyzes any Project-related bird fatalities or injuries detected, and provides recommendations for future monitoring and any adaptive management actions needed.</p>	<p>No less than 30 days prior to the start of construction of the power tower the Project owner shall submit to the CPM, USFWS and CDFG a final Avian and Bat Monitoring and Management Plan. Modifications to the Plan shall be made only after approval from the CPM in consultation with CDFG and USFWS.</p> <p>No later than January 31st of every year the Annual Report shall be provided to the CPM, CDFG, and USFWS. Quarterly reporting shall continue until the CPM, in consultation with CDFG and USFWS determine whether more years of monitoring are needed, and whether mitigation and adaptive management measures are necessary. After two years of data collection, the project owner or contractor shall prepare a report that describes the study design and monitoring results of the Avian and Bat Monitoring and Management Plan. The report shall be submitted to the CPM, CDFG and USFWS no later than the third year after onset of Project operation.</p>	X	X	X	2011	Not yet started			
Biological Resources	BIO-22-BLM	<p>The applicant shall prepare a MBTA Conservation Agreement in coordination with the USFWS, BLM, and CDFG. This Plan would identify procedures to minimize or eliminate impacts to MBTA species. Procedures may include, but are not limited to, pre-construction clearing and grading outside of breeding seasons, enforceable timing restrictions and identification of permissible activities within a prescribed distance from active nests, survey protocols for raptors and MBTA species, buffer zones around active nests, monitoring and reporting requirements. The MBTA Conservation Agreement may also require monetary compensation or land acquisition. The MBTA Conservation Agreement would need the approval of the agencies prior to initiating surface disturbance activities.</p> <p>Effectiveness: This mitigation measure would be moderately to highly effective in reducing impacts to MBTA species, depending on the details of the Conservation Agreement. The MBTA Conservation Agreement would ensure that the project did not result in a net loss of migratory birds</p>	No Verification: see Effectiveness		X		TBD	Not yet started			
Biological Resources	BIO-22-CEC	<p>As an alternative to providing mitigation or security for compensatory mitigation for the entire project prior to the start of the first grounddisturbing activities, the project owner may elect to provide security for compensatory mitigation in two phases as specified in this condition.</p> <p>Only the phases identified as Phase 1 and Phase 2, as described in this condition, and as provided by the applicant on September 2, 2010 in their Comments on the Presiding Member's Proposed Decision, may be used for the phasing of mitigation and security requirements. To the extent those sources are found to contain conflicting information about Project phasing, the description in this condition shall control. This condition presumes that the phases identified in this condition are identical to the phases that the Bureau of Land Management (BLM) will authorize work on through issuance of "notices to proceed"; if phases used by BLM are not identical to the phases as described in this condition and the materials identified above, the project owner shall obtain separate written authorization from the CPM prior to beginning work on each of the two phases. In no event shall any project disturbance occur unless security has been provided for the required mitigation associated with the particular phase of construction.</p> <p>For purposes of this condition: "Project Disturbance" or "ground disturbance" means any project related ground, habitat, or species disturbing action. "Project Disturbance Area" or "ground disturbance area" means all areas that would be temporarily or permanently disturbed during construction or operation of the Project, including all linear facilities, or which would be subject to any project-related ground, habitat, or species disturbing action. "Project construction" or "construction" means any ground-disturbing activity, including but not limited to construction work, site mobilization, fence construction, or any desert tortoise translocation activities. "Security" means the security that is required under other biological conditions of certification to ensure required mitigation measures will be implemented, or payments by the project owner into the National Fish and Wildlife Foundation (NFWF) mitigation account in accordance with the option provided in other conditions of certification.</p> <p>Overview of Project Phases Phase 1 includes the following components (1,282 acres): a. Fence Colosseum Road; b. Fence the Construction Logistics Area (CLA) and Construct Holding Pens in the CLA; c. Fence, Conduct Clearance Surveys, and Construct Ivanpah 1 d. Fence Access Road and Power Block for Ivanpah 2, and Perform Construction Within Ivanpah 2 Power Block. Phase 1 would include 1,282 acres of desert tortoise mitigation, as well as 10 of the 30 acres of rare plant mitigation, and 58 of the 175 acres of state waters mitigation.</p>	<p>Prior to the start of desert tortoise clearance surveys for each phase, the Project owner shall submit a description of the proposed construction activities for that phase to CDFG, USFWS and BLM for review and to the CPM for review and approval. The description for each phase shall include the proposed construction schedule, a figure depicting the locations of proposed construction and number of acres of desert tortoise habitat, rare plant habitat, and state-jurisdictional streambeds to be disturbed. If all mitigation requirements, including habitat acquisition and protection, are not completed for a Project phase prior to the start of ground-disturbing activities for that phase, the Project Owner shall provide verification to the CPM and CDFG that approved security as described in Conditions of Certification BIO-17 (Desert Tortoise Compensatory Mitigation), BIO-18 (Special-Status Plant Impact Avoidance and Minimization), and BIO-20 (Streambed Impact Minimization and Compensation Measures) has been established in accordance with these Conditions of Certification prior to beginning ground-disturbing activities for each Phase.</p> <p>Prior to submitting verification regarding the security to the CPM, the project owner shall obtain the CPM's written approval of the dollar amount and form of the security and the CPM's written approval of the terms governing the security instrument.</p> <p>Prior to initiating construction in each phase of the Project, the project owner shall comply with all pre-construction requirements in this and other Conditions of Certification and shall notify the CPM that it has obtained a Notice to Proceed for the particular phase from the BLM.</p> <p>The Project Owner shall provide written verification to the CPM, CDFG, BLM and USFWS of the compensation lands acquisition, protection, and transfer requirements and satisfaction of associated funding requirements as set forth in BIO-17, BIO-18 and BIO-20 within the following time frames: (1) For Phase 1 mitigation, verification shall be provided no later than 18 months after the start of construction of Phase 1, and (2) for Phase 2 mitigation, such verification shall be provided no later than 18 months after the start of construction of Phase 2. Other verification, notification and reporting requirements and other deadlines set forth in BIO-17, BIO-18 and BIO-20 that relate to compensation land requirements, to the option of funding mitigation through the NFWF account, or to use of approved third parties to carry out mitigation requirements also apply to Phase 1 and to Phase 2. Within 90 days after completion of all project related ground disturbance for each project phase, the project owner shall provide to the CPM, CDFG, BLM and USFWS an analysis, based on aerial photography, with the final accounting of the amount of habitat disturbed during Project construction.</p>		X		2013	Not yet started			

Biological Resources	BIO-22-CEC (continued)	<p>Phase 2 includes the following components (2,300 acres): a. Construct Ivanpah 2 – Consists of the diagonal access roads perimeter road for fence, channel crossings as needed, and solar field including grading of approximately 90 acres in the southwest and central regions of the solar field area;</p> <p>b. Construct Ivanpah 3 - Consists of the diagonal access roads, perimeter road for fence, channel crossings as needed, power block, and solar field including grading of approximately 120 acres in the southern and western regions of the solar field area;</p> <p>c. Other external features including roads and gas line. Phase 2 would include 2,300 acres of desert tortoise mitigation, as well as 20 of the 30 acres of rare plant mitigation, and 117 of the 175 acres of state waters mitigation.</p> <p>General Requirements</p> <p>At no time may the project owner cause ground-disturbance to any location outside of the area that has been approved for construction according to the phasing plan identified in this Condition of Certification. Prior to initiating construction in either phase of the Project, the project owner shall comply with all pre-construction requirements in this and other Conditions of Certification and shall notify the CPM that it has obtained a Notice to Proceed for the particular phase from the BLM. Construction activities, including work on linear and non-linear features, shall not occur outside desert tortoise exclusion areas that have been fenced and cleared in accordance with USFWS protocols and as described in Condition of Certification BIO-8 (Desert Tortoise Clearance and Exclusion Fencing). The project owner shall provide security to ensure implementation of the mitigation requirements in Conditions of Certification BIO-17 (Desert Tortoise Compensatory Mitigation), BIO-18 (Special-Status Plant Impact Avoidance and Minimization) and BIO-20 (Streambed Impact Minimization and Compensation Measures) for each of the two phases prior to any project construction associated with that phase. Phasing of security only applies to security required by the Conditions listed above. If the project owner elects to phase payments of security under either a Project Owner Acquisition or NFWF option and if the commencement of construction is delayed beyond June 1, 2011, the amount of the security (including payments to NFWF if applicable [see definition of security above]) will be adjusted by the CPM in consultation with DFG, BLM and USFWS prior to each phase to reflect the CPM's best estimate at that time of the estimated costs of land acquisition, long-term management and maintenance costs, and other costs that are included in the security computation. Those costs may be greater than the costs identified in the conditions of certification.</p>	<p>Prior to the start of desert tortoise clearance surveys for each phase, the Project owner shall submit a description of the proposed construction activities for that phase to CDFG, USFWS and BLM for review and to the CPM for review and approval. The description for each phase shall include the proposed construction schedule, a figure depicting the locations of proposed construction and number of acres of desert tortoise habitat, rare plant habitat, and state-jurisdictional streambeds to be disturbed. If all mitigation requirements, including habitat acquisition and protection, are not completed for a Project phase prior to the start of ground-disturbing activities for that phase, the Project Owner shall provide verification to the CPM and CDFG that approved security as described in Conditions of Certification BIO-17 (Desert Tortoise Compensatory Mitigation), BIO-18 (Special-Status Plant Impact Avoidance and Minimization), and BIO-20 (Streambed Impact Minimization and Compensation Measures) has been established in accordance with these Conditions of Certification prior to beginning ground-disturbing activities for each phase. Prior to submitting verification regarding the security to the CPM, the project owner shall obtain the CPM's written approval of the dollar amount and form of the security and the CPM's written approval of the terms governing the security instrument.</p> <p>Prior to initiating construction in each phase of the Project, the project owner shall comply with all pre-construction requirements in this and other Conditions of Certification and shall notify the CPM that it has obtained a Notice to Proceed for the particular phase from the BLM. The Project Owner shall provide written verification to the CPM, CDFG, BLM and USFWS of the compensation lands acquisition, protection, and transfer requirements and satisfaction of associated funding requirements as set forth in BIO-17, BIO-18 and BIO-20 within the following time frames: (1) For Phase 1 mitigation, verification shall be provided no later than 18 months after the start of construction of Phase 1, and (2) for Phase 2 mitigation, such verification shall be provided no later than 18 months after the start of construction of Phase 2. Other verification, notification and reporting requirements and other deadlines set forth in BIO-17, BIO-18 and BIO-20 that relate to compensation land requirements, to the option of funding mitigation through the NFWF account, or to use of approved third parties to carry out mitigation requirements also apply to Phase 1 and to Phase 2. Within 90 days after completion of all project related ground disturbance for each project phase, the project owner shall provide to the CPM, CDFG, BLM and USFWS an analysis, based on aerial photography, with the final accounting of the amount of habitat disturbed during Project construction.</p>				2013	Not yet started			
Biological Resources	BIO-22-CEC (continued)	<p>Even when security has been provided, the project owner shall complete the acquisition, protection and transfer of all compensation lands required in the conditions of certification listed above, as well as all funding requirements associated with those lands, within the time periods identified in those conditions of certification. Additional requirements within the project's conditions of certification that are not expressly phased in this condition shall be phased as necessary to carry out the purpose of this condition, and to ensure that no project construction occurs in an area for which the project owner has not provided security and obtained permission to begin construction. Examples may include such activities as construction and location of desert tortoise exclusion fencing or timing of preconstruction clearance surveys for other species. The project owner shall first obtain approval from the CPM, acting in consultation with BLM, CDFG and USFWS, for the phasing of any requirements or deadlines that are not expressly phased in conditions of certification. Security for phased construction shall be in the amounts as specified in Conditions of Certification BIO-17, -18 and -20, and may be adjusted by the CPM in consultation with DFG, BLM and USFWS based upon more accurate information provided by the project owner confirming the acreages described in this table, and on updates from the REAT agencies with more current guidance than the Desert Renewable Energy REAT Biological Resource Compensation/Mitigation Cost Estimate Breakdown for use with the REAT-NFWF Mitigation Account, July 23, 2010.</p>	<p>Prior to the start of desert tortoise clearance surveys for each phase, the Project owner shall submit a description of the proposed construction activities for that phase to CDFG, USFWS and BLM for review and to the CPM for review and approval. The description for each phase shall include the proposed construction schedule, a figure depicting the locations of proposed construction and number of acres of desert tortoise habitat, rare plant habitat, and state-jurisdictional streambeds to be disturbed. If all mitigation requirements, including habitat acquisition and protection, are not completed for a Project phase prior to the start of ground-disturbing activities for that phase, the Project Owner shall provide verification to the CPM and CDFG that approved security as described in Conditions of Certification BIO-17 (Desert Tortoise Compensatory Mitigation), BIO-18 (Special-Status Plant Impact Avoidance and Minimization), and BIO-20 (Streambed Impact Minimization and Compensation Measures) has been established in accordance with these Conditions of Certification prior to beginning ground-disturbing activities for each phase. Prior to submitting verification regarding the security to the CPM, the project owner shall obtain the CPM's written approval of the dollar amount and form of the security and the CPM's written approval of the terms governing the security instrument.</p> <p>Prior to initiating construction in each phase of the Project, the project owner shall comply with all pre-construction requirements in this and other Conditions of Certification and shall notify the CPM that it has obtained a Notice to Proceed for the particular phase from the BLM. The Project Owner shall provide written verification to the CPM, CDFG, BLM and USFWS of the compensation lands acquisition, protection, and transfer requirements and satisfaction of associated funding requirements as set forth in BIO-17, BIO-18 and BIO-20 within the following time frames: (1) For Phase 1 mitigation, verification shall be provided no later than 18 months after the start of construction of Phase 1, and (2) for Phase 2 mitigation, such verification shall be provided no later than 18 months after the start of construction of Phase 2. Other verification, notification and reporting requirements and other deadlines set forth in BIO-17, BIO-18 and BIO-20 that relate to compensation land requirements, to the option of funding mitigation through the NFWF account, or to use of approved third parties to carry out mitigation requirements also apply to Phase 1 and to Phase 2. Within 90 days after completion of all project related ground disturbance for each project phase, the project owner shall provide to the CPM, CDFG, BLM and USFWS an analysis, based on aerial photography, with the final accounting of the amount of habitat disturbed during Project construction.</p>				2013	Not yet started			
Biological Resources	BIO-23	<p>The applicant shall conduct visual biweekly surveys for bird and bat mortalities throughout the project site. In addition to the photo documentation of bird mortalities (Item #14 in BIO-11), mortalities and injuries to bats and other wildlife shall be photo documented. Additionally, data would document the species affected and any overt signs of injury resulting in death (e.g., scorched feathers). This information would be compiled and provided to the BLM on quarterly intervals for the first three years, then annually thereafter, unless otherwise requested by the BLM. This data would add to the understanding of impacts of solar facilities on avian and bat species. BLM would maintain the authority to require additional mitigation of the applicant in the future to reduce collision or heat-related injuries.</p> <p>Effectiveness: This mitigation would be highly effective in documenting avian and bat mortalities associated with the operation of the facility. If sufficient data are gathered to support the need for additional mitigation, the mitigation may ultimately be effective in reducing avian and bat injuries and mortalities if an effective mitigation measure can be identified in the future.</p>	No Verification: see Effectiveness				As needed	Ongoing			
Biological Resources	BIO-24	<p>To minimize potential impacts to Nelson bighorn sheep, the applicant shall not use barbed wire fence on the northern perimeter of the Ivanpah 3 site, unless required for security reasons.</p> <p>Effectiveness: This mitigation would be moderately effective in reducing injuries to bighorn sheep as they forage near the project site or use the area north of the project area for a movement corridor. This mitigation would not be enforced if the mitigation posed a reasonable security threat to the project.</p>	No Verification: see Effectiveness				2011	Not yet started			
Biological Resources	BIO-25	<p>The applicant shall monitor and control noxious and invasive weeds within 100 feet of the artificial water source. Control of weeds shall be coordinated with the BLM staff and shall consist of removal by mechanical methods, rather than herbicides.</p> <p>Effectiveness: This mitigation measure would be moderately effective in controlling noxious and invasive weeds near the artificial water source, providing better access to the site by big game.</p>	No Verification: see Effectiveness				2011	Not yet started			
Biological Resources	BIO-26	<p>The applicant shall implement all mitigation identified by the USFWS in the Biological Opinion.</p> <p>Effectiveness: This measure would be highly effective in ensuring mitigation within the USFWS' Biological Opinion was implemented.</p>	No Verification: see Effectiveness				N/A	Ongoing			

Biological Resources	BIO-27	The project owner shall implement the Closure, Revegetation, and Rehabilitation Plan, Revision 3, dated July 6, 2010, with the following modifications: 1. The long-term soil stockpiles, as discussed in Table 5-2 of the plan, will be no higher than 6 feet high. 2. The Preliminary Seeding Plan for Short-Term Disturbed Areas, and to be used as the basis for the seeding during final project decommissioning, will be based upon the species list provided in Table 7-1 of the plan, rather than the species list in Table 7-2. The list may be modified at the time of decommissioning based on seed availability. 3. Concrete will be removed to a minimum depth of 6 feet unless it is shown that a particular area is prone to flood hazards and a greater depth for concrete removal should be required. All concrete removed shall be hauled off the project site and disposed of in an approved facility. Crushed concrete will not be used as backfill on the site during decommissioning. 4. Succulents salvaged during project construction will not be sold by the applicant. Should excess succulents be removed that cannot be transplanted in the Succulent Nursery Area, their disposition will be managed by BLM. Effectiveness: This measure modifies Revision 3 of the Closure, Revegetation, and Rehabilitation Plan to incorporate procedures which will increase the probability of successful site rehabilitation.	No Verification: see Effectiveness					TBD	Not yet started				
Biological Resources	BIO-28	Compliance with Eagle Act. USFWS has notified BLM that due to the proximity of known occupied golden eagle territories, and that the effects of power towers on bald and golden eagles is unknown, this project has the potential to take an eagle. Due to the distance of the project site to known eagle territories, available mitigation measures (some of which are already described in other measures identified in this section), and habitat compensation associated with other species (i.e. desert tortoise), USFWS believes that this project can reach the "no net loss" standard for golden eagles identified in the Eagle Act Rule if the applicant submits and implements an Avian Protection Plan. The holder shall submit an Avian Protection Plan for approval of the Authorized Officer within 6 months of the issuance of any ROW grant for the project. The Avian Protection Plan must be implemented within one year from the date of any ROW grant Notice to Proceed.	No Verification: see Avian Protection Plan submittal					2011	Not yet started				
Facility Design	CIVIL-1	The project owner shall submit to the CBO for review and approval the following: 1. Design of the proposed drainage structures and the grading plan; 2. An erosion and sedimentation control plan; 3. Related calculations and specifications, signed and stamped by the responsible civil engineer; and 4. Soils, geotechnical, or foundation investigations reports required by the 2007 CBC, Appendix J, section J104.3, Soils Report, and Chapter 18, section 1802.2, Foundation and Soils Investigation.	At least 15 days (or within a project owner- and CBO-approved alternative time frame) prior to the start of site grading, the project owner shall submit the documents described above to the CBO for design review and approval. In the next monthly compliance report following the CBO's approval, the project owner shall submit a written statement certifying that the documents have been approved by the CBO.	X				7/23/2010	Approved	7/23/2010	9/8/2010		
Facility Design	CIVIL-2	The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible soils engineer, geotechnical engineer, or the civil engineer experienced and knowledgeable in the practice of soils engineering identifies unforeseen adverse soil or geologic conditions. The project owner shall submit modified plans, specifications, and calculations to the CBO based on these new conditions. The project owner shall obtain approval from the CBO before resuming earthwork and construction in the affected area (2007 CBC, Appendix Chapter 1, section 114, Stop Work Orders).	The project owner shall notify BLM's Authorized Officer and the CPM within 24 hours, when earthwork and construction is stopped as a result of unforeseen adverse geologic/soil conditions. Within 24 hours of the CBO's approval to resume earthwork and construction in the affected areas, the project owner shall provide to BLM's Authorized Officer and the CPM a copy of the CBO's approval.		X			As needed	As needed				
Facility Design	CIVIL-3	The project owner shall perform inspections in accordance with the 2007 CBC, Appendix Chapter 1, section 109, Inspections, and Chapter 17, section 1704, Special Inspections. All plant site-grading operations, for which a grading permit is required, shall be subject to inspection by the CBO. If, in the course of inspection, it is discovered that the work is not being performed in accordance with the approved plans, the discrepancies shall be reported immediately to the resident engineer, the CBO, BLM's Authorized Officer and the CPM (2007 CBC, Chapter 17, section 1704.1.2, Report Requirements). The project owner shall prepare a written report, with copies to the CBO, BLM's Authorized Officer and the CPM, detailing all discrepancies, non-compliance items, and the proposed corrective action.	Within 5 days of the discovery of any discrepancies, the resident engineer shall transmit to the CBO, BLM's Authorized Officer and the CPM a nonconformance report (NCR) and the proposed corrective action for review and approval. Within 5 days of resolution of the NCR, the project owner shall submit the details of the corrective action to the CBO, BLM's Authorized Officer and the CPM. A list of NCRs for the reporting month shall also be included in the following monthly compliance report.		X			As needed	As needed				
Facility Design	CIVIL-4	After completion of finished grading and erosion and sedimentation control and drainage work, the project owner shall obtain the CBO's approval of the final grading plans (including final changes) for the erosion and sedimentation control work. The civil engineer shall state that the work within his/her area of responsibility was done in accordance with the final approved plans (2007 CBC, Chapter 17, section 1703.2, Written Approval).	Within 30 days (or a project owner- and CBO-approved alternative time frame) of the completion of the erosion and sediment control mitigation and drainage work, the project owner shall submit to the CBO, for review and approval, the final grading plans (including final changes) and the responsible civil engineer's signed statement that the installation of the facilities and all erosion control measures were completed in accordance with the final approved combined grading plans and that the facilities are adequate for their intended purposes, along with a copy of the transmittal letter to BLM's Authorized Officer and the CPM. The project owner shall submit a copy of the CBO's approval to BLM's Authorized Officer and the CPM in the next monthly compliance report.		X			2011	Not yet started				
Compliance Conditions	COMP-01	Unrestricted Access: BLM's Authorized Officer, responsible BLM staff, the CPM, responsible Energy Commission staff, and delegated agencies or consultants shall be guaranteed and granted unrestricted access to the power plant site, related facilities, project-related staff, and the records maintained on-site, for the purpose of conducting audits, surveys, inspections, or general site visits. Although BLM's Authorized Officer and the CPM will normally schedule site visits on dates and times agreeable to the project owner, BLM's Authorized Officer and the CPM reserve the right to make unannounced visits at anytime.			X	X		N/A	N/A				
Compliance Conditions	COMP-02	Compliance Record: The project owner shall maintain project files on-site or at an alternative site approved by BLM's Authorized Officer and the CPM for the life of the project, unless a lesser period of time is specified by the conditions of certification. The files shall contain copies of all "as-built" drawings, documents submitted as verification for conditions, and other project-related documents. As-built drawings of all facilities including linear facilities shall be provided to the BLM Authorized Officer for inclusion in the BLM administrative record within 90-days of completion of that portion of the facility or project. BLM and Energy Commission staff and delegate agencies shall, upon request to the project owner, be given unrestricted access to the files maintained pursuant to this condition.			X	X		N/A	N/A				
Compliance Conditions	COMP-03	Compliance Verification Submittals: Each condition of certification is followed by a means of verification. The verifier describes the Energy Commission's procedure(s) to ensure post-certification compliance with adopted conditions. The verification procedures, unlike the conditions, may be modified as necessary by BLM's Authorized Officer and the CPM. Verification of compliance with the conditions of certification can be accomplished by the following: 1. Monthly and/or annual compliance reports, timely filed by the project owner or authorized agent, reporting on work done and providing pertinent documentation, as required by the specific conditions of certification; 2. Appropriate letters from delegate agencies verifying compliance; 3. BLM and Energy Commission staff audits of project records; and/or 4. BLM and Energy Commission staff inspections of work, or other evidence that the requirements are satisfied. Verification lead times associated with start of construction may require the project owner to file submittals during the certification process, particularly if construction is planned to commence shortly after certification. A cover letter from the project owner or authorized agent is required for all compliance submittals and correspondence pertaining to compliance matters. The cover letter subject line shall identify the project by AFC number, the appropriate condition(s) of certification by condition number(s), and a brief description of the subject of the submittal. The project owner shall also identify those submittals not required by a condition of certification with a statement such as: "This submittal is for information only and is not required by a specific condition of certification." When submitting supplementary or corrected information, the project owner shall reference the date of the previous submittal and BLM/CEC submittal number.			X	X		N/A	N/A				

Compliance Conditions	COMP-03 (Continued)	<p>The project owner is responsible for the delivery and content of all verification submittals to the BLM's Authorized Officer and CPM, whether such condition was satisfied by work performed by the project owner or an agent of the project owner. All hardcopy submittals shall be addressed to each of the following:</p> <table border="0"> <tr> <td>BLM's Authorized Officer (ACA-48668, 49502, 49503, and 49504)</td> <td>Compliance Project Manager (07-AFC-5C)</td> </tr> <tr> <td>U.S. Bureau of Land Management 1303 South Highway 95 Needles, CA 92363</td> <td>California Energy Commission 1516 Ninth Street (MS-2000) Sacramento, CA 95814</td> </tr> </table> <p>Those submittals shall be accompanied by a searchable electronic copy, on a CD or by e-mail, as agreed upon by BLM's Authorized Officer and the CPM. If the project owner desires BLM and/or Energy Commission staff action by a specific date, that request shall be made in the submittal cover letter and shall include a detailed explanation of the effects on the project if that date is not met.</p>	BLM's Authorized Officer (ACA-48668, 49502, 49503, and 49504)	Compliance Project Manager (07-AFC-5C)	U.S. Bureau of Land Management 1303 South Highway 95 Needles, CA 92363	California Energy Commission 1516 Ninth Street (MS-2000) Sacramento, CA 95814																					
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Compliance Conditions	COMP-04	<p>Pre-construction Matrix and Tasks Prior to Start of Construction: Prior to commencing construction, a compliance matrix addressing only those conditions that must be fulfilled before the start of construction shall be submitted by the project owner to BLM's Authorized Officer and the CPM. This matrix will be included with the project owner's first compliance submittal or prior to the first pre-construction meeting, whichever comes first. It will be submitted in the same format as the compliance matrix described below. In order to begin any on-site mobilization or surface disturbing activities on public land, the BLM Authorized Officer must approve a written Notice to Proceed (NTP). NTPs will be phased as appropriate to facilitate timely implementation of construction.</p> <p>Construction shall not commence until the pre-construction matrix is submitted, all preconstruction conditions have been complied with, and BLM's Authorized Officer and the CPM have issued a letter and BLM has issued a NTP to the project owner authorizing construction. Various lead times for submittal of compliance verification documents to BLM's Authorized Officer and the CPM for conditions of certification are established to allow sufficient BLM and Energy Commission staff time to review and comment and, if necessary, allow the project owner to revise the submittal in a timely manner. This will ensure that project construction may proceed according to schedule. Failure to submit compliance documents within the specified lead-time may result in delays in authorization to commence various stages of project development. If the project owner anticipates commencing project construction as soon as the project is certified, it may be necessary for the project owner to file compliance submittals prior to project certification. Compliance submittals should be completed in advance where the necessary lead time for a required compliance event extends beyond the date anticipated for start of construction. The project owner must understand that the submittal of compliance documents prior to project certification is at the owner's own risk. Any approval by Energy Commission staff is subject to change, based upon BLM's ROW Grant and the Energy Commission Decision.</p> <p>Compliance Reporting</p> <p>There are two different compliance reports that the project owner must submit to assist BLM's Authorized Officer and the CPM in tracking activities and monitoring compliance with the terms and conditions of BLM's ROW Grant and the Energy Commission Decision. During construction, the project owner or authorized agent will submit Monthly Compliance Reports. During operation, an Annual Compliance Report must be submitted. These reports, and the requirement for an accompanying compliance matrix, are described below. The majority of the conditions of certification require that compliance submittals be submitted to BLM's Authorized Officer and the CPM in the monthly or annual compliance reports.</p>		X						5/14/2010 (draft) 6/4/2010 (final)	Approved	5/14/2010 (draft) 6/4/2010 (final)	9/2/2010														
Compliance Conditions	COMP-05	<p>Compliance Matrix: A compliance matrix shall be submitted by the project owner to BLM's Authorized Officer and the CPM along with each monthly and annual compliance report. The compliance matrix is intended to provide BLM's Authorized Officer and the CPM with the current status of all conditions of certification in a spreadsheet format. The compliance matrix must identify:</p> <ol style="list-style-type: none"> 1. the technical area; 2. the condition number; 3. a brief description of the verification action or submittal required by the condition; 4. the date the submittal is required (e.g., 60 days prior to construction, after final inspection, etc.); 5. the expected or actual submittal date; 6. the date a submittal or action was approved by the Chief Building Official (CBO), BLM's Authorized Officer, CPM, or delegate agency, if applicable; and 7. the compliance status of each condition, e.g., "not started," "in progress" or "completed" (include the date). 8. if the condition was amended, the date of the amendment. Satisfied conditions shall be placed at the end of the matrix. 		X	X				9/15/2010	Approved	8/11/2010	9/2/2010															
Compliance Conditions	COMP-06	<p>Monthly Compliance Report: Commission business meeting date upon which the project was approved, unless otherwise agreed to by BLM's Authorized Officer and the CPM. The first Monthly Compliance Report shall include the AFC number and an initial list of dates for each of the events identified on the Key Events List. The Key Events List Form is four at the end of this section.</p> <p>During pre-construction and construction of each power plant, the project owner or authorized agent shall submit an original and an electronic searchable version of the Monthly Compliance Report within 10 working days after the end of each reporting month. Monthly Compliance Reports shall be clearly identified for the month being reported. The reports shall contain, at a minimum:</p> <ol style="list-style-type: none"> 1. A summary of the current project construction status, a revised/updated schedule if there are significant delays, and an explanation of any significant changes to the schedule; 2. Documents required by specific conditions to be submitted along with the Monthly Compliance Report. Each of these items must be identified in the transmittal letter, as well as the conditions they satisfy and submitted as attachments to the Monthly Compliance Report; 3. An initial, and thereafter updated, compliance matrix showing the status of all conditions of certification (fully satisfied conditions do not need to be included in the matrix after they have been reported as completed); 4. A list of conditions that have been satisfied during the reporting period, and a description or reference to the actions that satisfied the condition; 5. A list of any submittal deadlines that were missed, accompanied by an explanation and an estimate of when the information will be provided; 6. A cumulative listing of any approved changes to conditions of certification; 7. A listing of any filings submitted to, or permits issued by, other governmental agencies during the month; 8. A projection of project compliance activities scheduled during the next two months. The project owner shall notify BLM's Authorized Officer and the CPM as soon as any changes are made to the project construction schedule that would affect compliance with conditions of certification; 9. A listing of the month's additions to the on-site compliance file; and 10. A listing of complaints, notices of violation, official warnings, and citations received during the month, a description of the resolution of the resolved actions, and the status of any unresolved actions. All sections, exhibits, or addendums shall be separated by tabbed dividers or as acceptable by BLM's Authorized Officer and the CPM. 						X		Monthly	Ongoing																

Compliance Conditions	<p>COMP-11 Planned Closure: In order to ensure that a planned facility closure does not create adverse impacts, a closure process that provides for careful consideration of available options and applicable laws, ordinances, regulations, standards, and local/regional plans in existence at the time of closure, will be undertaken. To ensure adequate review of a planned project closure, the project owner shall submit a revision or update to the approved Closure, Revegetation and Rehabilitation Plan to BLM and the Energy Commission for review and approval at least 12 months (or other period of time agreed to by BLM's Authorized Officer and the CPM) prior to commencement of closure activities. The project owner shall file 50 copies and 50 CDs with the Energy Commission and 10 copies and 10 CDs with BLM (or other number of copies agreed upon by BLM's Authorized Officer and the CPM) of a proposed facility closure plan/Closure, Revegetation and Rehabilitation Plan.</p> <p>The plan shall:</p> <ol style="list-style-type: none"> 1. identify and discuss any impacts and mitigation to address significant adverse impacts associated with proposed closure activities and to address facilities, equipment, or other project related materials that must be removed from the site; 2. identify a schedule of activities for closure of the power plant site, transmission line corridor, and all other appurtenant facilities constructed as part of the project; 3. address conformance of the plan with all applicable laws, ordinances, regulations, standards, and local/regional plans in existence at the time of facility closure, and applicable conditions of certification; and 4. Address any changes to the site revegetation, rehabilitation, monitoring and longterm maintenance specified in the existing plan that are needed for site revegetation and rehabilitation to be successful. Prior to submittal of an amended or revised Closure, Revegetation and Restoration Plan, a meeting shall be held between the project owner, BLM's Authorized Officer and the Energy Commission CPM for the purpose of discussing the specific contents of the plan. In the event that there are significant issues associated with the proposed facility Closure, Revegetation and Restoration plan's approval, or the desires of local officials or interested parties are inconsistent with the plan, BLM's Authorized Officer the CPM shall hold one or more workshops and/or BLM and the Energy Commission may hold public hearings as part of its approval procedure. <p>As necessary, prior to or during the closure plan process, the project owner shall take appropriate steps to eliminate any immediate threats to public health and safety and the environment, but shall not commence any other closure activities until BLM and the Energy Commission approves the facility Closure, Revegetation and Restoration plan.</p>					TBD	Not yet started			
Compliance Conditions	<p>COMP-12 Unplanned Temporary Closure/On-Site Contingency Plan: In order to ensure that public health and safety and the environment are protected in the event of an unplanned temporary facility closure, it is essential to have an On-Site Contingency Plan in place. The On-Site Contingency Plan will help to ensure that all necessary steps to mitigate public health and safety impacts and environmental impacts are taken in a timely manner.</p> <p>The project owner shall submit an On-Site Contingency Plan for BLM's Authorized Officer and CPM review and approval. The plan shall be submitted no less than 60 days (or other time agreed to by BLM's Authorized Officer and the CPM) after approval of any NTP or letter granting approval to commence construction for each phase of construction. A copy of the approved plan must be in place during commercial operation of the facility and shall be kept at the site at all times.</p> <p>The project owner, in consultation with BLM's Authorized Officer and the CPM, will update the On-Site Contingency Plan as necessary. BLM's Authorized Officer and the CPM may require revisions to the On-Site Contingency Plan over the life of the project. In the annual compliance reports submitted to the Energy Commission, the project owner will review the On-Site Contingency Plan, and recommend changes to bring the plan up to date. Any changes to the plan must be approved by BLM's Authorized Officer and the CPM.</p> <p>The On-Site Contingency Plan shall provide for taking immediate steps to secure the facility from trespassing or encroachment. In addition, for closures of more than 90 days, unless other arrangements are agreed to by BLM's Authorized Officer and the CPM, the plan shall provide for removal of hazardous materials and hazardous wastes, draining of all chemicals from storage tanks and other equipment, and the safe shutdown of all equipment. (Also see specific conditions of certification for the technical areas of Hazardous Materials Management and Waste Management.)</p> <p>In addition, consistent with requirements under unplanned permanent closure addressed below, the nature and extent of insurance coverage, and major equipment warranties must also be included in the On-Site Contingency Plan. In addition, the status of the insurance coverage and major equipment warranties must be updated in the annual compliance reports.</p> <p>In the event of an unplanned temporary closure, the project owner shall notify BLM's Authorized Officer and the CPM, as well as other responsible agencies, by telephone, fax, or e-mail, within 24 hours and shall take all necessary steps to implement the On-Site Contingency Plan. The project owner shall keep BLM's Authorized Officer and the CPM informed of the circumstances and expected duration of the closure. If BLM's Authorized Officer and the CPM determine that an unplanned temporary closure is likely to be permanent, or for a duration of more than 6 months, a Closure Plan consistent with the requirements for a planned closure shall be developed and submitted to BLM's Authorized Officer and the CPM within 90 days of BLM's Authorized Officer and the CPM's determination (or other period of time agreed to by BLM's Authorized Officer and the CPM).</p>				X	12/1/2010	In progress			
Compliance Conditions	<p>COMP-13 Unplanned Permanent Closure/On-Site Contingency Plan: The On-Site Contingency Plan required for unplanned temporary closure shall also cover unplanned permanent facility closure. All of the requirements specified for unplanned temporary closure shall also apply to unplanned permanent closure.</p> <p>In addition, the On-Site Contingency Plan shall address how the project owner will ensure that all required closure steps will be successfully undertaken in the event of abandonment.</p> <p>In the event of an unplanned permanent closure, the project owner shall notify BLM's Authorized Officer and the CPM, as well as other responsible agencies, by telephone, fax, or e-mail, within 24 hours and shall take all necessary steps to implement the On-Site Contingency Plan. The project owner shall keep BLM's Authorized Officer and the CPM informed of the status of all closure activities.</p> <p>To ensure that public health and safety and the environment are protected in the event of an unplanned temporary closure the project owner shall submit an On-Site Contingency Plan no less than 60 days after a NTP is issued for each phase of development.</p>				X	12/1/2010	In progress			

Compliance Conditions	COMP-14	<p>Post Certification Changes to BLM's ROW Grant and/or the Energy Commission Decision: Amendments, Ownership Changes, Insignificant Project Changes and Verification Changes: The project owner must petition the Energy Commission pursuant to Title 20, California Code of Regulations, section 1769, in order to modify the project (including linear facilities) design, operation or performance requirements, and to transfer ownership or operational control of the facility. The BLM ROW holder must file a written request in the form of an application to the BLM Authorized Officer in order to change the terms and conditions of their ROW grant or POD. Written requests will be in a manner prescribed by the BLM Authorized Officer.</p> <p>It is the responsibility of the project owner to contact BLM's Authorized Officer and the CPM to determine if a proposed project change should be considered a project modification pursuant to section 1769. Implementation of a project modification without first securing BLM and either Energy Commission or Energy Commission staff approval, may result in enforcement action in accordance with section 25534 of the Public Resources Code.</p> <p>A Petition to Amend is required for changes to the project as specified below. For verification changes, a letter from the project owner is sufficient. In all cases, the petition or letter requesting a change should be submitted to BLM's Authorized Officer and the CPM, who will file it with the Energy Commission's Dockets Unit in accordance with Title 20, California Code of Regulations, section 1209. The criteria that determine which type of approval and the process that applies are explained below. They reflect the provisions of Section 1769 at the time this condition was drafted. If the Commission's rules regarding amendments are amended, the rules in effect at the time an amendment is requested shall apply.</p> <p>Amendment - The project owner shall petition the Energy Commission, pursuant to Title 20, California Code of Regulations Section 1769(a), when proposing modifications to the project (including linear facilities) design, operation, or performance requirements. If a proposed modification results in deletion or change of a condition of certification, or makes changes that would cause the project not to comply with any applicable laws, ordinances, regulations or standards, the petition will be processed as a formal amendment to the Energy Commission's final decision, which requires public notice and review of the BLM-Energy Commission staff analysis, and approval by the full Energy Commission. The petition shall be in the form of a legal brief and fulfill the requirements of Section 1769(a). Upon request, the CPM will provide you with a sample petition use as a template. The ROW holder shall file an application to amend the BLM ROW grant for any substantial deviation or change in use. The requirements to amend a ROW grant are the same as when filing a new application including paying processing and monitoring fees and rent.</p>					As needed	As needed			
Compliance Conditions	COMP-14 (Continued)	<p>Change of Ownership - Change of ownership or operational control also requires that the project owner file a petition pursuant to section 1769(b). This process requires public notice and approval by the full Commission and BLM. The petition shall be in the form of a legal brief and fulfill the requirements of Section 1769(b). Upon request, the CPM will provide you with a sample petition to use as a template. The transfer of ownership of a BLM ROW grant must be through the filing of an application for assignment of the grant.</p> <p>Insignificant Project Change - Insignificant Project Change Modifications that do not result in deletions or changes to conditions of certification, and that are compliant with laws, ordinances, regulations and standards may be authorized by BLM's Authorized Officer and the CPM as an insignificant project change pursuant to section 1769(a) (2). This process usually requires minimal time to complete, and it requires a Energy Commission 14-day public review of the Notice of Insignificant Project Change that includes the BLM and Energy Commission staff's intention to approve the modification unless substantive objections are filed. These requests must also be submitted in the form of a "Petition to Amend" as described above. BLM and the Energy Commission intend to integrate a process to jointly approve insignificant project changes to avoid duplication of approval processes and ensure appropriate documentation for the public record.</p> <p>Verification Change - A verification change may be modified by the BLM's Authorized Officer and the without requesting an amendment to the ROW Grant or Energy Commission decision if the change does not conflict with the conditions of certification and provides an effective alternate means of verification.</p>									
Cultural Resources	CUL-01	<p>The resume of the CRS shall include the names and telephone numbers of contacts familiar with the work of the CRS on referenced projects, and demonstrate that the CRS has the appropriate education and experience to accomplish the cultural resource tasks that must be addressed during ground disturbance, grading, construction, and operation. Prior to the start of ground disturbance (includes "preconstruction site mobilization;" "construction ground disturbance;" and "construction grading, boring, and trenching," as defined in the General Conditions for this project), the project owner shall obtain the services of a Cultural Resources Specialist (CRS), and one or more alternate CRSs, if alternates are needed. The CRS shall manage all consultation, monitoring, mitigation, curation, and reporting activities required in accordance with the Conditions of Certification (Conditions). The CRS may elect to obtain the services of Cultural Resource Monitors (CRMs) and other technical specialists, if needed, to assist in monitoring, mitigation, and curation activities.</p> <p>The project owner shall ensure that the CRS makes recommendations regarding the eligibility to the National Register of Historic Places (NRHP) and the California Register of Historical Resources (CRHR) of any cultural resources that are new discovered or that may be affected in an unanticipated manner. No ground disturbance shall occur prior to CPM approval of the CRS, unless specifically approved by the BLM's Authorized Officer and the CPM. Approval of a CRS may be denied or revoked for non-compliance on this or other projects.</p>	<ol style="list-style-type: none"> At least 45 days prior to the start of ground disturbance, the project owner shall submit the resume for the CRS, and alternate(s), if desired, to the BLM's Authorized Officer and the CPM for review and approval. At least 10 days prior to a termination or release of the CRS, or within 10 days after the resignation of a CRS, the project owner shall submit the resume of the proposed new CRS to the BLM's Authorized Officer and the CPM for review and approval. At the same time, the project owner shall also provide to the approved new CRS the AFC and all cultural documents, field notes, photographs, and other cultural materials generated by the project. If there is no alternate CRS in place to conduct the duties of the CRS, a previously approved monitor may serve in place of a CRS so that construction may continue up to a maximum of 3 days without a CRS. If cultural resources are discovered, then construction will remain halted until there is a CRS or alternate CRS to make a recommendation regarding significance. At least 20 days prior to ground disturbance, the CRS shall provide a letter naming anticipated CRMs for the project and stating that the identified CRMs meet the minimum qualifications for cultural resource monitoring required by this Condition. If additional CRMs are obtained during the project, the CRS shall provide additional letters to the BLM's Authorized Officer and the CPM identifying the CRMs and attesting to the qualifications of the CRMs, at least five days prior to the CRMs beginning on-site duties. At least 10 days prior to beginning tasks, the resume(s) of any additional technical specialists shall be provided to the BLM's Authorized Officer and the CPM for review and approval. At least 10 days prior to the start of ground disturbance, the project owner shall confirm in writing to the BLM's Authorized Officer and the CPM that the approved CRS will be available for onsite work and is prepared to implement the cultural resources Conditions. 		X		6/11/2010	Approved	6/11/2010	10/7/2010	
Cultural Resources	CUL-01 (Continued)	<p>CULTURAL RESOURCES SPECIALIST. The resumes for the CRS and alternate(s) shall include information demonstrating to the satisfaction of the BLM's Authorized Officer and the CPM that their training and background conform to the U.S. Secretary of Interior Guidelines, as published in the Code of Federal Regulations, 36 CFR Part 61. In addition, the CRS shall have the following qualifications: 1. The CRS's qualifications shall be appropriate to the needs of the project and shall include a background in anthropology, archaeology, history, architectural history, or a related field; and 2. At least three years of (archaeological or historic, as appropriate, resource mitigation and field experience in California. CULTURAL RESOURCES MONITORS CRMs shall have the following qualifications: 1. a BS or BA degree in anthropology, archaeology, historical archaeology or a related field and one year experience monitoring in California; or 2. an AS or AA degree in anthropology, archaeology, historical archaeology or a related field, and four years experience monitoring in California; or 3. enrollment in upper division classes pursuing a degree in the fields of anthropology, archaeology, historical archaeology or a related field, and two years of monitoring experience in California. CULTURAL RESOURCES TECHNICAL SPECIALISTS The resume(s) of any additional technical specialists, e.g., historical archaeologist, historian, architectural historian, and/or physical anthropologist, shall be submitted to the BLM's Authorized Officer and the CPM for approval.</p>	<ol style="list-style-type: none"> At least 45 days prior to the start of ground disturbance, the project owner shall submit the resume for the CRS, and alternate(s), if desired, to the BLM's Authorized Officer and the CPM for review and approval. At least 10 days prior to a termination or release of the CRS, or within 10 days after the resignation of a CRS, the project owner shall submit the resume of the proposed new CRS to the BLM's Authorized Officer and the CPM for review and approval. At the same time, the project owner shall also provide to the approved new CRS the AFC and all cultural documents, field notes, photographs, and other cultural materials generated by the project. If there is no alternate CRS in place to conduct the duties of the CRS, a previously approved monitor may serve in place of a CRS so that construction may continue up to a maximum of 3 days without a CRS. If cultural resources are discovered, then construction will remain halted until there is a CRS or alternate CRS to make a recommendation regarding significance. At least 20 days prior to ground disturbance, the CRS shall provide a letter naming anticipated CRMs for the project and stating that the identified CRMs meet the minimum qualifications for cultural resource monitoring required by this Condition. If additional CRMs are obtained during the project, the CRS shall provide additional letters to the BLM's Authorized Officer and the CPM identifying the CRMs and attesting to the qualifications of the CRMs, at least five days prior to the CRMs beginning on-site duties. At least 10 days prior to beginning tasks, the resume(s) of any additional technical specialists shall be provided to the BLM's Authorized Officer and the CPM for review and approval. At least 10 days prior to the start of ground disturbance, the project owner shall confirm in writing to the BLM's Authorized Officer and the CPM that the approved CRS will be available for onsite work and is prepared to implement the cultural resources Conditions. 		X		6/11/2010	Approved	6/11/2010	10/7/2010	

Cultural Resources	CUL-02	Prior to the start of ground disturbance, if the CRS has not previously worked on the project, the project owner shall provide the CRS with copies of the AFC, data responses, and confidential cultural resources reports for the project. The project owner shall also provide the CRS, the BLM's Authorized Officer, and the CPM with maps and drawings showing the footprint of the power plant and all linear facilities. Maps shall include the appropriate USGS quadrangles and a map at an appropriate scale (e.g., 1:2000 or 1" = 200') for plotting cultural features or materials. If the CRS requests enlargements of strip maps for linear facility routes, the project owner shall provide copies to the CRS and CPM. The BLM's Authorized Officer and the CPM shall review submittals and, in consultation with the CRS, approve those that are appropriate for use in cultural resources planning activities. No ground disturbance shall occur prior to CPM approval of maps and drawings, unless specifically approved by the BLM's Authorized Officer and the CPM. If construction of the project would proceed in phases, maps and drawings, not previously provided, shall be submitted prior to the start of each phase. Written notification identifying the proposed schedule of each project phase shall be provided to the CRS and CPM. At a minimum, the CRS shall consult weekly with the project construction manager to confirm area(s) to be worked during the next week, until ground disturbance is completed, and the project owner shall ensure that the project construction manager is available for such weekly consultations. The project owner shall notify the CRS and CPM of any changes to the scheduling of the construction phases. No ground disturbance shall occur prior to CPM approval of maps and drawings, unless specifically approved by the BLM's Authorized Officer and the CPM.	1. At least 40 days prior to the start of ground disturbance, the project owner shall provide the AFC, data responses, and confidential cultural resource documents to the CRS, if needed, and the subject maps and drawings to the CRS and CPM. The BLM's Authorized Officer and the CPM will review submittals in consultation with the CRS and approve maps and drawings suitable for cultural resources planning activities. 2. If there are changes to any project related-footprint, revised maps and drawings shall be provided at least 15 days prior to start of ground disturbance and construction for those changes. 3. If project construction is phased, if not previously provided, the project owner shall submit the subject maps and drawings 15 days prior to each phase. 4. On a weekly basis during ground disturbance, a current schedule of anticipated project activity shall be provided to the CRS and CPM by letter, email, or fax. 5. Within five days of identifying changes, the project owner shall provide written notice of any changes to scheduling of construction phase.	X	X		7/26/2010	Approved	7/30/2010	10/7/2010	
Cultural Resources	CUL-03	Prior to the start of ground disturbance, the project owner shall submit the Cultural Resources Monitoring and Mitigation Plan (CRMMP), as prepared by or under the direction of the CRS, to the BLM's Authorized Officer and the CPM for review and approval. The CPM shall provide the project owner with a model CRMMP to adapt for project use. The CRMMP shall identify general and specific measures to minimize potential impacts to sensitive cultural resources. Implementation of the CRMMP shall be the responsibility of the CRS and the project owner. Copies of the CRMMP shall reside with the CRS, alternate CRS, each monitor, and the project owner's on-site construction manager. No ground disturbance shall occur prior to CPM approval of the CRMMP, unless specifically approved by the BLM's Authorized Officer and the CPM. The CRMMP shall include, but not be limited to, the following elements and measures: 1. The following statement included in the Introduction: "Any discussion, summary, or paraphrasing of the Conditions in this CRMMP is intended as general guidance and as an aid to the user in understanding the Conditions and their implementation. The Conditions, as written in the Commission Decision, shall supersede any summarization, description, or interpretation of the Conditions in the CRMMP. The Cultural Resources Conditions of Certification from the Commission Decision are contained in Appendix A." 2. A proposed general research design that includes a discussion of archaeological research questions and testable hypotheses specifically applicable to the local prehistory and history of the project area, and a discussion of artifact collection, retention/disposal, and curation policies as related to the research questions formulated in the research design. The research design shall specify that the preferred treatment strategy for any buried archaeological deposits is avoidance. A mitigation plan shall be prepared for any NRHP-eligible resource (as determined by the BLM's Authorized Officer) or any CRHR-eligible resource (as determined by the CPM), impacts to which cannot be avoided. A prescriptive treatment plan may be included in the CRMMP for limited data types. 3. Specification of the implementation sequence and the estimated time frames needed to accomplish all project-related tasks during the ground disturbance and post-ground-disturbance analysis phases of the project. 4. Identification of the person(s) expected to perform each of the tasks, their responsibilities, and the reporting relationships between project construction management and the mitigation and monitoring team. 5. A description of the manner in which Native American observers or monitors will be included, the procedures to be used to select them, and their role and responsibilities.	1. Upon approval of the CRS proposed by the project owner, the CPM will provide to the CRS an electronic copy of the model CRMMP. 2. At least 30 days prior to the start of ground disturbance, the project owner shall submit the subject CRMMP to the BLM's Authorized Officer and the CPM for review and approval. Ground disturbance may not commence until the CRMMP is approved, unless specifically approved by the BLM's Authorized Officer and the CPM. 3. At least 30 days prior to the start of ground disturbance, a letter shall be provided to the BLM's Authorized Officer and the CPM indicating that the project owner agrees to pay curation fees for any materials collected as a result of the archaeological investigations (survey, testing, data recovery).	X			8/13/2010	Approved	8/13/2010	11/4/2010	
Cultural Resources	CUL-03 (Continued)	6. A description of all impact avoidance measures (such as flagging or fencing), to prohibit or otherwise restrict access to sensitive resource areas that may be found during construction and/or operation and may subsequently need to be avoided, and identification of the areas where these measures are to be implemented. The description shall address how these measures would be implemented and how long they would be needed to protect the resources from project-related effects. 7. A statement that all cultural resources encountered shall be recorded on a DPR form 523 and mapped and photographed. In addition, all archaeological materials collected as a result of the archaeological investigations (survey, testing, and data recovery) shall be curated in accordance with the State Historical Resources Commission's "Guidelines for the Curation of Archaeological Collections," into a retrievable storage collection in a public repository or museum. 8. A statement that the project owner will pay all curation fees for artifacts recovered and for related documentation produced during cultural resources investigations conducted for the project. The project owner shall identify three possible curation facilities that could accept cultural resources materials resulting from project activities. 9. A statement that the CRS has access to equipment and supplies necessary for site mapping, photographing, and recovering any cultural resource materials that are encountered during ground disturbance and that cannot be treated prescriptively. 10. A description of the contents and format of the Cultural Resource Report (CRR), which shall be prepared according to ARMR Guidelines.									
Cultural Resources	CUL-04	The project owner shall submit the Cultural Resources Report (CRR) to the BLM's Authorized Officer and the CPM for approval. The CRR shall be written by or under the direction of the CRS and shall be provided in the ARMR format. The CRR shall report on all field activities related to the implementation of the CRMMP including dates, times and locations, findings, samplings, and analyses. All survey reports, Department of Parks and Recreation (DPR) 523 forms, and additional research reports not previously submitted to the California Historic Resource Information System (CHRIS) and the State Historic Preservation Officer (SHPO) shall be included as an appendix to the CRR. If the project owner requests a suspension of ground disturbance and/or construction activities, then a draft CRR that covers all cultural resources activities associated with the project shall be prepared by the CRS and submitted to the BLM's Authorized Officer and the CPM for review and approval on the same day as the suspension/extension request. The draft CRR shall be retained at the project site in a secure facility until ground disturbance and/or construction resumes or the project is withdrawn. If the project is withdrawn, then a final CRR shall be submitted to the BLM's Authorized Officer and the CPM for review and approval at the same time as the withdrawal request.	1. Within 90 days after completion of ground disturbance (including landscaping), the project owner shall submit the CRR to the BLM's Authorized Officer and the CPM for review and approval. If any reports have previously been sent to the CHRIS, then receipt letters from the CHRIS or other verification of receipt shall be included in an appendix. 2. Within 90 days after completion of ground disturbance (including landscaping), the project owner shall provide to the BLM's Authorized Officer and the CPM a copy of an agreement with, or other written commitment from, a curation facility that meets the standards stated in the California State Historical Resources Commission's Guidelines for the Curation of Archaeological Collections, to accept cultural materials, if any, from this project. Any agreements concerning curation will be retained and available for audit for the life of the project. 3. Within 10 days after CPM approval of the CRR, the project owner shall provide documentation to the BLM's Authorized Officer and the CPM that copies of the CRR have been provided to the SHPO, the CHRIS, the curating institution, if archaeological materials were collected, and to the Chairperson(s) of any Native American groups requesting copies of project-related reports. 4. Within 30 days after requesting a suspension of construction activities, the project owner shall submit a draft CRR to the BLM's Authorized Officer and the CPM for review and approval.	X	X		2013	Not yet started			

Cultural Resources	CUL-05	<p>Prior to and for the duration of ground disturbance, the project owner shall provide Worker Environmental Awareness Program (WEAP) training to all new workers within their first week of employment at the project site and on the linear facilities. The training shall be prepared by the CRS, may be conducted by any member of the archaeological team, and may be presented in the form of a video. The CRS shall be available (by telephone or in person) to answer questions posed by employees. The training may be discontinued when ground disturbance, including landscaping, is completed. The training shall include:</p> <ol style="list-style-type: none"> 1. A discussion of applicable laws and penalties under the law; 2. Samples or visuals of artifacts that might be found in the project vicinity; 3. A discussion of what such artifacts may look like when partially buried, or wholly buried and then freshly exposed; 4. A discussion of what prehistoric and historical archaeological deposits look like at the surface and when exposed during construction, and the range of variation in the appearance of such deposits; 5. Instruction that the CRS, alternate CRS, and CRMs have the authority to halt construction in the area of a discovery to a extent sufficient to ensure that the resource is protected from further impacts, as determined by the CRS; 6. Instruction that employees are to halt work on their own in the vicinity of a potential cultural resources discovery and shall contact their supervisor and the CRS or CRM, and that redirection of work would be determined by the construction supervisor and the CRS; 7. An informational brochure that identifies reporting procedures in the event of a discovery; 8. An acknowledgement form signed by each worker indicating that they have received the training; and 9. A sticker that shall be placed on hard hats indicating that environmental training has been completed. <p>No ground disturbance shall occur prior to implementation of the WEAP program, unless such activities are specifically approved by the BLM's Authorized Officer and the CPM.</p>	<ol style="list-style-type: none"> 1. At least 30 days prior to the beginning of ground disturbance, the CRS shall provide the training program draft text and graphics and the informational brochure to the BLM's Authorized Officer and the CPM for review and approval, and the CPM will provide to the project owner a WEAP Training Acknowledgement form for each WEAP-trained worker to sign. 2. On a monthly basis, the project owner shall provide in the Monthly Compliance Report (MCR) the WEAP Training Acknowledgement forms of persons who have completed the training in the prior month and a running total of all persons who have completed training to date. 	X	X		7/2/2010	Approved	7/6/2010	10/7/2010	
Cultural Resources	CUL-06	<p>The project owner shall ensure that construction is immediately halted should anyone discover buried archaeological materials on the project site or linear facilities (Discovery). Archaeological materials may include, but are not limited to, such items as whole or fragmentary flaked or ground stone tools, stone flaking debris, discolored, fire-altered rock, animal bone, charcoal, ash, discolored, burned earth, rocks and minerals not common to the project site, and fragments of ceramic, glass, or metal. In the event of such a Discovery, the project owner shall ensure the immediate notification of the CRS, who shall either evaluate the NHRP and CRHR eligibility of the Discovery, in person, on the project site, or supervise the evaluations that a CRM or an appropriate cultural resources technical specialist would make of the historical significance of the Discovery, also in person, on the project. The recommendations of significance shall be substantiated by and reported to the BLM's Authorized Officer and the CPM by the CRS. Redirection of ground disturbance shall be accomplished under the direction of the construction supervisor, in a manner agreed to by the CRS.</p> <p>In the event cultural resources that are over 50 years of age or that may be considered NHRP- or CRHR-eligible are found or impacts to such resources can be anticipated, construction shall be halted or redirected in the immediate vicinity of the Discovery sufficient to ensure that the resource is protected from further impacts. The halting or redirection of construction shall remain in effect until either the CRS, a CRM, or appropriate cultural resources technical specialist has made evaluations of the historical significance of the Discovery, and all of the following have also occurred:</p> <ol style="list-style-type: none"> 1. The CRS has notified the project owner, and the BLM's Authorized Officer and the CPM have been notified within 24 hours of the Discovery, or by Monday morning if the cultural resources Discovery occurs between 8:00 AM on Friday and 8:00 AM on Sunday morning, including a description of the Discovery (or changes in character or attributes), the action taken (i.e. work stoppage or redirection), recommendations of eligibility, and recommendations for mitigation of any cultural resources Discoveries, whether or not a determination of significance has been made. 2. The CRS has ensured completion of field notes, measurements, and photography for a DPR 523 primary form. The "Description" entry of the 523 form shall include a recommendation on the significance of the find. The project owner shall submit completed forms to the BLM's Authorized Officer and the CPM. 3. The CRS, the project owner, and the BLM's Authorized Officer and the CPM have conferred, and the BLM's Authorized Officer and the CPM have concurred with the recommended eligibility of the Discovery and approved the CRS's proposed data recovery, if any, including the curation of the artifacts, or other appropriate mitigation; and any necessary data recovery and mitigation have been completed. 	<ol style="list-style-type: none"> 1. At least 30 days prior to the start of ground disturbance, the project owner shall provide the BLM's Authorized Officer, the CPM, and the CRS with a letter confirming that the CRS, alternate CRS, and CRMs have the authority to halt construction activities in the vicinity of a cultural resources Discovery, and that the project owner shall ensure that the CRS notifies the BLM's Authorized Officer and the CPM within 24 hours of a Discovery, or by Monday morning if the cultural resources Discovery occurs between 8:00 AM on Friday and 8:00 AM on Sunday morning. 2. Completed DPR form 523s shall be submitted to the BLM's Authorized Officer and the CPM for review and approval no later than 24 hours following the notification of the BLM's Authorized Officer and the CPM, or 48 hours following the completion of data recordation/recovery, whichever is more appropriate for the subject cultural material. 	X	X		8/20/2010	Approved	8/23/2010	9/2/2010	
Cultural Resources	CUL-06 (Continued)	<ol style="list-style-type: none"> 4. The CRS, the BLM's Authorized Officer, and the CPM have conferred, and the BLM's Authorized Officer and the CPM have determined whether the Discovery reveals new information about the subsurface archaeological character of the project site that warrants the initiation of monitoring for portions of the project site. 5. When the BLM's Authorized Officer and the CPM make a determination that a Discovery does reveal new information about the subsurface archaeological character of the project site that warrants the initiation of monitoring for portions of the project site, the BLM's Authorized Officer and the CPM shall provide notification, by letter or e-mail, to the project owner and the CRS, where on the project site monitoring shall be necessary and why, and notification that CUL-7 shall be implemented for the subject portions of the project site. 									
Cultural Resources	CUL-07	<p>If there is a discovery of archaeological material, and after the BLM's Authorized Officer and the CPM notify the project owner and the CRS that the initiation of monitoring is necessary for portions of the project site or linear facilities, the project owner shall ensure that the CRS, alternate CRS, or CRMs shall monitor full time on the portions of the project site and linear facilities which the BLM's Authorized Officer and the CPM may specify, and ground disturbance full time on the portions of the laydown areas or other ancillary areas which the BLM's Authorized Officer and the CPM may also specify, to ensure there are no impacts to further undiscovered resources and to ensure that newly found resources are not further impacted in an unanticipated manner. Full-time archaeological monitoring for this project shall be the archaeological monitoring of all earth-moving activities on the portions of the construction site or the linear facility routes which the BLM's Authorized Officer and the CPM may specify for as long as the activities are ongoing. Full-time archaeological monitoring shall require one monitor per active earthmoving machine working in archaeologically sensitive areas, as determined by the CRS in consultation with the BLM's Authorized Officer and the CPM. If an excavation area is too large for one monitor to effectively observe the soil removal, one or more additional monitors shall be retained to observe the area. In the event that the CRS determines that the current level of monitoring is not appropriate in certain locations, a letter or e-mail detailing the justification for changing the level of monitoring shall be provided to the BLM's Authorized Officer and the CPM for review and approval prior to any change in the level of monitoring.</p> <p>The research design in the CRMP shall govern the collection, treatment, retention/disposal, and curation of any archaeological materials encountered.</p> <p>On forms provided by the CPM, CRMs shall keep a daily log of any monitoring and other cultural resource activities and any instances of non-compliance with the Conditions and/or applicable LORS. Copies of the daily logs shall be provided to the BLM's Authorized Officer and the CPM by the CRS as directed by the BLM's Authorized Officer and the CPM. The CRS shall use these logs to compile a monthly summary report on the progress or status of cultural resources-related activities. If there are no monitoring activities, the summary report shall specify why monitoring has been suspended. The CRS or alternate CRS shall report daily to the BLM's Authorized Officer and the CPM on the status of cultural resources-related activities at the project site, unless reducing or ending daily reporting is requested by the CRS and approved by the BLM's Authorized Officer and the CPM. The CRS, at his or her discretion, or at the request of the BLM's Authorized Officer or the CPM, may informally discuss cultural resource monitoring and mitigation activities with Energy Commission technical staff.</p>	<ol style="list-style-type: none"> 1. At least 30 days prior to the start of ground disturbance, the CPM will provide to the CRS an electronic copy of the form to be used as a daily monitoring log. 2. Daily, the CRS shall provide a statement that "no cultural resources over 50 years of age were discovered" to the BLM's Authorized Officer and the CPM as an e-mail or in some other form acceptable to the BLM's Authorized Officer and the CPM. If the CRS concludes that daily reporting is no longer necessary, a letter or e-mail providing a detailed justification for the decision to reduce or end daily reporting shall be provided to the BLM's Authorized Officer and the CPM for review and approval at least 24 hours prior to reducing or ending daily reporting. 3. On a monthly basis, while monitoring is on-going, the project owner shall include in each MCR a copy of the monthly summary report of cultural resources-related monitoring prepared by the CRS. Copies of daily logs shall be retained by the project owner and made available for audit by the BLM's Authorized Officer and the CPM. 4. At least 24 hours prior to implementing a proposed change in monitoring level, documentation justifying the change shall be submitted to the BLM's Authorized Officer and the CPM for review and approval. 	X	X		8/20/2010	Approved	8/13/2010	9/2/2010	

Cultural Resources	CUL-07 (continued)	Cultural resources monitoring activities are the responsibility of the CRS. Any interference with monitoring activities, removal of a monitor from duties assigned by the CRS, or direction to a monitor to relocate monitoring activities by anyone other than the CRS shall be considered non-compliance with these Conditions. Upon becoming aware of any incidents of non-compliance with the Conditions and/or applicable LORS, the CRS and/or the project owner shall notify the BLM's Authorized Officer and the CPM by telephone or e-mail within 24 hours. The CRS shall also recommend corrective action to resolve the problem or achieve compliance with the Conditions. When the issue is resolved, the CRS shall write a report describing the issue, the resolution of the issue, and the effectiveness of the resolution measures. This report shall be provided in the next MCR for the review of the BLM's Authorized Officer and the CPM. A Native American monitor shall be obtained to monitor ground disturbance in areas where Native American artifacts may be discovered. Informational lists of concerned Native Americans and Guidelines for monitoring shall be obtained from the Native American Heritage Commission. Preference in selecting a monitor shall be given to Native Americans with traditional ties to the area that shall be monitored.							
Cultural Resources	CUL-08	Prior to the dismantling, by any party, of any portion of the Hoover Dam-to-San Bernardino transmission line (CA-SBR-10315H) located within the boundaries of the project site, the project owner shall obtain the services of an architectural historian. The project owner shall provide the BLM's Authorized Officer and the CPM with the name and resume of the architectural historian. No ground disturbance shall occur prior to CPM approval of the architectural historian, unless specifically approved by the BLM's Authorized Officer and the CPM. The resume for the architectural historian shall include names and telephone numbers of contacts familiar with the architectural historian's work and all information needed to demonstrate that the architectural historian has the following qualifications: 1. meets the Secretary of Interior's Professional Standards for architectural history; 2. has at least three years experience in recording twentieth-century industrial structures; and 3. has completed at least one reconditioning project within the past five years involving coordination with the National Park Service's Heritage Documentation Program (HDP).	1. At least 90 days prior to the dismantling of any portion of the Hoover Dam-to-San Bernardino transmission line located within the boundaries of the project site, the project owner shall submit the name and resume of the selected architectural historian to the BLM's Authorized Officer and the CPM for review and approval. 2. At least 75 days prior to the dismantling of any portion of the Hoover Dam-to-San Bernardino transmission line located within the boundaries of the project site, the project owner shall confirm in writing to the BLM's Authorized Officer and the CPM that the approved architectural historian is available for onsite work and provide a date by which the architectural historian will undertake the HAER-type documentation of the tower types and the cabling system of the portion of the Hoover Dam-to-San Bernardino transmission line located within the boundaries of the project site.	X		TBD	Not yet started		
Cultural Resources	CUL-09	Prior to the dismantling, by any party, of any portion of the Hoover Dam-to-San Bernardino transmission line (CA-SBR-10315H) located within the boundaries of the project site, the project owner shall ensure that the approved architectural historian prepares HAER-type documentation of the historic context and historic setting of the resource, and recordation of those physical parts of the Hoover Dam-to-San Bernardino transmission line that are located within the boundaries of the project site. The project owner shall consult with the HABS/HAER Coordinator in the Pacific West Regional Office of the HDP, in Oakland, and comply with the Coordinator's guidance on the extent and content of documentation appropriate for the Hoover Dam-to-San Bernardino transmission line, as a historical resource under CEQA and as a resource eligible for inclusion in the National Register of Historic Places, and on the format and materials to be used in the documentation. No dismantling of the Hoover Dam-to-San Bernardino transmission line located within the boundaries of the project area shall occur prior to the completion, by the architectural historian, of the recording, in the field, of the historic setting and the portion of the line located within the boundaries of the project site, and the submission to and approval by the BLM's Authorized Officer and the CPM of the draft HAER-type documentation of the Hoover Dam-to-San Bernardino transmission line, unless specifically allowed by the BLM's Authorized Officer and the CPM.	1. At least 60 days prior to the dismantling, by any party, of any portion of the Hoover Dam-to-San Bernardino transmission line located within the boundaries of the project site, the project owner shall submit to the BLM's Authorized Officer and the CPM a letter or memorandum from the architectural historian detailing the scope of the HDP-recommended documentation of the resource. 2. At least 30 days prior to the dismantling, by any party, of any portion of the Hoover Dam-to-San Bernardino transmission line located within the boundaries of the project site, the project owner shall provide a copy of the draft HAER-type documentation of the resource to the BLM's Authorized Officer and the CPM for review and approval. 3. Within 90 days after completion of ground disturbance (including landscaping) the project owner shall include in an appendix to the CRR copies of the transmittal letters for the submission of copies of the final HAER-type documentation of the portion of the Hoover Dam-to-San Bernardino transmission line located within the boundaries of the project site to the California State Library and to at least two local libraries in San Bernardino County, and a copy of the letter of acceptance of the final HAER documentation by the Library of Congress, if accepted by that repository. 4. Alternately, at least 150 days prior to the dismantling, by any party, of any portion of the Hoover Dam-to-San Bernardino transmission line located within the boundaries of the project site, the project owner may submit to the BLM's Authorized Officer and the CPM, for review and approval, a copy of final HAER-type documentation of the portion of the Hoover Dam-to-San Bernardino transmission line located within the boundaries of the project site produced by any party, that meets HAER-type standards. If the project owner chooses this alternative, within 90 days after completion of ground disturbance (including landscaping), the project owner shall include in an appendix to the CRR copies of the transmittal letters for the submission of copies of the alternative final HAER-type documentation to the California State Library and to at least two local libraries in San Bernardino County.	X		TBD	Not yet started		
Cultural Resources	CUL-10	If fill soils must be acquired from a non-commercial borrow site or disposed of to a non-commercial disposal site, unless less than five-year-old surveys of these sites for archaeological resources are documented to and approved by the BLM's Authorized Officer and the CPM, the CRS shall survey the borrow and/or disposal site(s) for cultural resources and record on DPR 523 forms any that are identified. When the survey is completed, the CRS shall convey the results and recommendations for further action to the project owner, the BLM's Authorized Officer, and the CPM, who will determine what, if any, further action is required. If the BLM's Authorized Officer and the CPM determine that significant archaeological resources that cannot be avoided are present at the borrow site, all these conditions of certification shall apply. The CRS shall report on the methods and results of these surveys in the CRR.	1. As soon as the project owner knows that a non-commercial borrow site and/or disposal site will be used, he/she shall notify the CRS and CPM and provide documentation of previous archaeological survey, if any, dating within the past five years, for CPM approval. 2. In the absence of documentation of recent archaeological survey, at least 30 days prior to any soil borrow or disposal activities on the noncommercial borrow and/or disposal sites, the CRS shall survey the site/s for archaeological resources. The CRS shall notify the project owner, the BLM's Authorized Officer, and the CPM of the results of the cultural resources survey, with recommendations, if any, for further action.	X		As needed	Ongoing		
Facility Design	ELEC-1	Prior to the start of any increment of electrical construction for all electrical equipment and systems 480 volts or higher (see a representative list, below), with the exception of underground duct work and any physical layout drawings and drawings not related to code compliance and life safety, the project owner shall submit, for CBO design review and approval, the proposed final design, specifications, and calculations (2007 CBC, Appendix Chapter 1, section 106.1, Submittal Documents). Upon approval, the above-listed plans, together with design changes and design change notices, shall remain on the site or at another accessible location for the operating life of the project. The project owner shall request that the CBO inspect the installation to ensure compliance with the requirements of applicable LORS (2007 CBC, Appendix Chapter 1, section 109.6, Approval Required; section 109.5, Inspection Requests). All transmission facilities (lines, switchyards, switching stations, and substations) are handled in "Conditions of Certification" in the Transmission System Engineering section of this document. A. Final plant design plans shall include: 1. One-line diagrams for the 13.8-kV, 4.16-kV, and 480-volt systems; and 2. System grounding drawings. B. Final plant calculations must establish: 1. Short-circuit ratings of plant equipment; 2. Ampacity of feeder cables; 3. Voltage drop in feeder cables; 4. System grounding requirements; 5. Coordination study calculations for fuses, circuit breakers and protective relay settings for the 13.8-kV, 4.16-kV, and 480-volt systems; 6. System grounding requirements; and 7. Lighting energy calculations. C. The following activities shall be reported to BLM's Authorized Officer and the CPM in the monthly compliance report: 1. Receipt or delay of major electrical equipment; 2. Testing or energization of major electrical equipment; and 3. A signed statement by the registered electrical engineer certifying that the proposed final design plans and specifications conform to requirements set forth in the Energy Commission decision.	At least 30 days (or within a project owner- and CBO-approved alternative time frame) prior to the start of each increment of electrical construction, the project owner shall submit to the CBO for design review and approval the above-listed documents. The project owner shall include in this submittal a copy of the signed and stamped statement from the responsible electrical engineer attesting compliance with the applicable LORS and shall send BLM's Authorized Officer and the CPM a copy of the transmittal letter in the next monthly compliance report.	X		TBD	Not yet started		

Facility Design	GEN-1	The project owner shall design, construct, and inspect the project in accordance with the 2007 California Building Standards Code (CBCS), also known as Title 24, California Code of Regulations, which encompasses the California Standards Code (CBC), California Administrative Code, California Electrical Code, California Mechanical Code, California Plumbing Code, California Energy Code, California Fire Code, California Code for Building Conservation, California Reference Standards Code, and all other applicable engineering LORS in effect at the time initial design plans are submitted to the chief building official (CBO) for review and approval (the CBCS in effect is the edition that has been adopted by the California Building Standards Commission and published at least 180 days previously). The project owner shall ensure that all the provisions of the above applicable codes are enforced during the construction, addition, alteration, moving, demolition, repair, or maintenance of the completed facility (2007 CBC, Appendix Chapter 1, section 101.2. Scope). All transmission facilities (lines, switchyards, switching stations, and substations) are covered in the Conditions of Certification in the Transmission System Engineering section of this document. In the event that the initial engineering designs are submitted to the CBO when the successor to the 2007 CBCS is in effect, the 2007 CBCS provisions shall be replaced with the applicable successor provisions. Where, in any specific case, different sections of the code specify different materials, methods of construction, or other requirements, the most restrictive shall govern. Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall govern. The project owner shall ensure that all contracts with contractors, subcontractors, and suppliers clearly specify that all work performed and materials supplied comply with the codes listed above.	Within 30 days following receipt of the certificate of occupancy, the project owner shall submit to BLM's Authorized Officer and the Compliance Project Manager (CPM) a statement of verification, signed by the responsible design engineer, attesting that all designs, construction, installation, and inspection requirements of the applicable LORS and the Energy Commission's decision have been met in the area of facility design. The project owner shall provide BLM's Authorized Officer and the CPM a copy of the certificate of occupancy within 30 days of receipt from the CBO (2007 CBC, Appendix Chapter 1, section 110, Certificate of Occupancy). Once the certificate of occupancy has been issued, the project owner shall inform BLM's Authorized Officer and the CPM at least 30 days prior to any construction, addition, alteration, moving, demolition, repair, or maintenance to be performed on any portion(s) of the completed facility that requires CBO approval for compliance with the above codes. BLM's Authorized Officer and the CPM will then determine if the CBO needs to approve the work.				2013	Not yet started																																																								
Facility Design	GEN-2	Before submitting the initial engineering designs for CBO review, the project owner shall furnish BLM's Authorized Officer, the CPM and the CBO with a schedule of facility design submittals and master drawing and master specifications lists. The schedule shall contain a list of proposed submittal packages of designs, calculations, and specifications for major structures and equipment. To facilitate audits by BLM's Authorized Officer and/or Energy Commission staff, the project owner shall provide specific packages to BLM's Authorized Officer and/or the CPM upon request.	At least 60 days (or within a project owner- and CBO-approved alternative time frame) prior to the start of rough grading, the project owner shall submit to the CBO, BLM's Authorized Officer and to the CPM the schedule, the master drawing and master specifications lists of documents to be submitted to the CBO for review and approval. These documents shall be the pertinent design documents for the major structures and equipment listed in Facility Design Table 1 , below. Major structures and equipment shall be added to or deleted from the table only with BLM's Authorized Officer and CPM approval. The project owner shall provide schedule updates in the monthly compliance report. Structures and Equipment List <table border="1"> <thead> <tr> <th>Equipment/System</th> <th>Quantity (Plant)</th> </tr> </thead> <tbody> <tr><td>Turbine Generator Foundation and Connections</td><td>3</td></tr> <tr><td>Boiler Structure, Foundation and Connections</td><td>10</td></tr> <tr><td>Air Cooled Condenser Structure, Foundation & Connections</td><td>3</td></tr> <tr><td>Feed Water Preheater Structure, Foundation & Connections</td><td>3</td></tr> <tr><td>Deaerator Structure, Foundation and Connections</td><td>3</td></tr> <tr><td>Steam Distributor Structure, Foundation and Connections</td><td>3</td></tr> <tr><td>Water Treatment Plant, Administration and Electrical Building Structure, Foundation and Connections</td><td>4</td></tr> <tr><td>Water Storage Tanks Structure, Foundation and Connections</td><td>3</td></tr> <tr><td>Maintenance Wing Structure, Foundation and Connections</td><td>3</td></tr> <tr><td>Turbine Lubrication System Foundation and Connections</td><td>3</td></tr> <tr><td>Emergency Generator Foundation and Connections</td><td>3</td></tr> <tr><td>Diesel Fire Pump Foundation and Connections</td><td>3</td></tr> <tr><td>Reheat Tower Structure, Foundation and Connections</td><td>3</td></tr> <tr><td>Emergency Generator Exhaust Structure, Foundation and Connections</td><td>3</td></tr> <tr><td>Pipe Bridge Structure, Foundation and Connections</td><td>3</td></tr> <tr><td>Solar Fields and Towers Structures, Foundations and Connections</td><td>3 Lots</td></tr> <tr><td>Evaporation Pits b</td><td>3 Lots</td></tr> <tr><td>Drainage Systems (including sanitary drain and waste)</td><td>3 Lots</td></tr> <tr><td>High Pressure and Large Diameter Piping and Pipe Racks</td><td>3 Lots</td></tr> <tr><td>HVAC and Refrigeration Systems</td><td>3 Lots</td></tr> <tr><td>Temperature Control and Ventilation Systems (including water and sewer connections)</td><td>3 Lots</td></tr> <tr><td>Building Energy Conservation Systems</td><td>3 Lots</td></tr> <tr><td>Switchyard, Buses, and Towers</td><td>3 Lots</td></tr> <tr><td>Substation</td><td>1 Lot</td></tr> <tr><td>Electrical Duct Banks</td><td>3 Lots</td></tr> </tbody> </table>	Equipment/System	Quantity (Plant)	Turbine Generator Foundation and Connections	3	Boiler Structure, Foundation and Connections	10	Air Cooled Condenser Structure, Foundation & Connections	3	Feed Water Preheater Structure, Foundation & Connections	3	Deaerator Structure, Foundation and Connections	3	Steam Distributor Structure, Foundation and Connections	3	Water Treatment Plant, Administration and Electrical Building Structure, Foundation and Connections	4	Water Storage Tanks Structure, Foundation and Connections	3	Maintenance Wing Structure, Foundation and Connections	3	Turbine Lubrication System Foundation and Connections	3	Emergency Generator Foundation and Connections	3	Diesel Fire Pump Foundation and Connections	3	Reheat Tower Structure, Foundation and Connections	3	Emergency Generator Exhaust Structure, Foundation and Connections	3	Pipe Bridge Structure, Foundation and Connections	3	Solar Fields and Towers Structures, Foundations and Connections	3 Lots	Evaporation Pits b	3 Lots	Drainage Systems (including sanitary drain and waste)	3 Lots	High Pressure and Large Diameter Piping and Pipe Racks	3 Lots	HVAC and Refrigeration Systems	3 Lots	Temperature Control and Ventilation Systems (including water and sewer connections)	3 Lots	Building Energy Conservation Systems	3 Lots	Switchyard, Buses, and Towers	3 Lots	Substation	1 Lot	Electrical Duct Banks	3 Lots	X	X		7/12/2010	Approved	7/16/2010	9/2/2010		
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Facility Design	GEN-3	The project owner shall make payments to the CBO for design review, plan checks, and construction inspections, based upon a reasonable fee schedule to be negotiated between the project owner and the CBO. These fees may be consistent with the fees listed in the 2007 CBC (2007 CBC, Appendix Chapter 1, section 108, Fees; Chapter 1, section 108.4, Permits, Fees, Applications and Inspections), adjusted for inflation and other appropriate adjustments; may be based on the value of the facilities reviewed; may be based on hourly rates; or may be otherwise agreed upon by the project owner and	The project owner shall make the required payments to the CBO in accordance with the agreement between the project owner and the CBO. The project owner shall send a copy of the CBO's receipt of payment to BLM's Authorized Officer and the CPM in the next monthly compliance report indicating that applicable fees have been paid.		X		Monthly	Ongoing																																																								
Facility Design	GEN-4	Prior to the start of rough grading, the project owner shall assign a California registered architect, structural engineer, or civil engineer, as the resident engineer (RE) in charge of the project (2007 California Administrative Code, section 4-209, Designation of Responsibilities). All transmission facilities (lines, switchyards, switching stations, and substations) are addressed in the conditions of certification in the Transmission System Engineering section of this document. The RE may delegate responsibility for portions of the project to other registered engineers. Registered mechanical and electrical engineers may be delegated responsibility for mechanical and electrical portions of the project, respectively. A project may be divided into parts, provided that each part is clearly defined as a distinct unit. Separate assignments of general responsibility may be made for each designated part. The RE shall: 1. Monitor progress of construction work requiring CBO design review and inspection to ensure compliance with LORS; 2. Ensure that construction of all facilities subject to CBO design review and inspection conforms in every material respect to applicable LORS, these conditions of certification, approved plans, and specifications; 3. Prepare documents to initiate changes in approved drawings and specifications when either directed by the project owner or as required by the conditions of the project; 4. Be responsible for providing project inspectors and testing agencies with complete and up-to-date sets of stamped drawings, plans, specifications, and any other required documents; 5. Be responsible for the timely submittal of construction progress reports to the CBO from the project inspectors, the contractor, and other engineers who have been delegated responsibility for portions of the project; and 6. Be responsible for notifying the CBO of corrective action or the disposition of items noted on laboratory reports or other tests when they do not conform to approved plans and specifications. The RE shall have the authority to halt construction and to require changes or remedial work if the work does not meet requirements. If the RE or the delegated engineers are reassigned or replaced, the project owner shall submit the name, qualifications, and registration number of the newly assigned engineer to the CBO for review and approval. The project owner shall notify BLM's Authorized Officer and the CPM of the CBO's approval of the new engineer.	At least 30 days (or within a project owner- and CBO-approved alternative time frame) prior to the start of rough grading, the project owner shall submit to the CBO for review and approval, the resume and registration number of the RE and any other delegated engineers assigned to the project. The project owner shall notify BLM's Authorized Officer and the CPM of the CBO's approvals of the RE and other delegated engineer(s) within 5 days of the approval. If the RE or the delegated engineer(s) is subsequently reassigned or replaced, the project owner has 5 days to submit the resume and registration number of the newly assigned engineer to the CBO for review and approval. The project owner shall notify BLM's Authorized Officer and the CPM of the CBO's approval of the new engineer within 5 days of the approval.		X		8/7/2010	Approved	8/7/2010	8/13/2010																																																						

Facility Design	GEN-5	<p>Prior to the start of rough grading, the project owner shall assign at least one of each of the following California registered engineers to the project: a civil engineer; a soils, geotechnical, or civil engineer experienced and knowledgeable in the practice of soils engineering; and an engineering geologist. Prior to the start of construction, the project owner shall assign at least one of each of the following California registered engineers to the project: a design engineer who is either a structural engineer or a civil engineer fully competent and proficient in the design of power plant structures and equipment supports; a mechanical engineer; and an electrical engineer. (California Business and Professions Code section 6704 et seq., and sections 6730, 6731, and 6736 require state registration to practice as a civil engineer or structural engineer in California.) All transmission facilities (lines, switchyards, switching stations, and substations) are handled in "Conditions of Certification" in the Transmission System Engineering section of this Decision.</p> <p>The tasks performed by the civil, mechanical, electrical, or design engineers may be divided between two or more engineers, as long as each engineer is responsible for a particular segment of the project (for example, proposed earthwork, civil structures, power plant structures, equipment support). No segment of the project shall have more than one responsible engineer. The transmission line may be the responsibility of a separate California registered electrical engineer.</p> <p>The project owner shall submit, to the CBO for review and approval, the names, qualifications, and registration numbers of all responsible engineers assigned to the project (2007 CBC, Appendix Chapter 1, section 104, Duties and Powers of Building Official). If any one of the designated responsible engineers is subsequently reassigned or replaced, the project owner shall submit the name, qualifications and registration number of the newly assigned responsible engineer to the CBO for review and approval. The project owner shall notify BLM's Authorized Officer and the CPM of the CBO's approval of the new engineer.</p> <p>A. The civil engineer shall:</p> <ol style="list-style-type: none"> 1. Review the foundation investigations, geotechnical, or soils reports prepared by the soils engineer, the geotechnical engineer, or by a civil engineer experienced and knowledgeable in the practice of soils engineering; 2. Design (or be responsible for the design of), stamp, and sign all plans, calculations, and specifications for proposed site work, civil works, and related facilities requiring design review and inspection by the CBO. At a minimum, these include: grading, site preparation, excavation, compaction, construction of secondary containment, foundations, erosion and sedimentation control structures, drainage facilities, underground utilities, culverts, site access roads and sanitary sewer systems; and 	<p>At least 30 days (or within a project owner- and CBO-approved alternative time frame) prior to the start of rough grading, the project owner shall submit to the CBO for review and approval, resumes and registration numbers of the responsible civil engineer, soils (geotechnical) engineer, and engineering geologist assigned to the project.</p> <p>At least 30 days (or within a project owner- and CBO-approved alternative time frame) prior to the start of construction, the project owner shall submit to the CBO for review and approval, resumes and registration numbers of the responsible design engineer, mechanical engineer, and electrical engineer assigned to the project.</p> <p>The project owner shall notify BLM's Authorized Officer and the CPM of the CBO's approvals of the responsible engineers within 5 days of the approval.</p> <p>If the designated responsible engineer is subsequently reassigned or replaced, the project owner has 5 days in which to submit the resume and registration number of the newly assigned engineer to the CBO for review and approval. The project owner shall notify BLM's Authorized Officer and the CPM of the CBO's approval of the new engineer within 5 days of the approval.</p>	X		5/28/2010	Approved	5/28/2010	9/2/2010
Facility Design	GEN-5 (Continued)	<ol style="list-style-type: none"> 3. Provide consultation to the RE during the construction phase of the project and recommend changes in the design of the civil works facilities and changes to the construction procedures. B. The soils engineer, geotechnical engineer, or civil engineer experienced and knowledgeable in the practice of soils engineering, shall: <ol style="list-style-type: none"> 1. Review all the engineering geology reports; 2. Prepare the foundation investigations, geotechnical, or soils reports containing field exploration reports, laboratory tests, and engineering analysis detailing the nature and extent of the soils that could be susceptible to liquefaction, rapid settlement, or collapse when saturated under load (2007 CBC, Appendix J, section J104.3, Soils Report; Chapter 18, section 1802.2, Foundation and Soils Investigations); 3. Be present, as required, during site grading and earthwork to provide consultation and monitor compliance with requirements set forth in the 2007 CBC, Appendix J, section J105, Inspections, and the 2007 California Administrative Code, section 4-211, Observation and Inspection of Construction (depending on the site conditions, this may be the responsibility of either the soils engineer, the engineering geologist, or both); and 4. Recommend field changes to the civil engineer and RE. This engineer shall be authorized to halt earthwork and to require changes if site conditions are unsafe or do not conform to the predicted conditions used as the basis for design of earthwork or foundations (2007 CBC, Appendix Chapter 1, section 114, Stop Orders). C. The engineering geologist shall: <ol style="list-style-type: none"> 1. Review all the engineering geology reports and prepare a final soils grading report; and 2. Be present, as required, during site grading and earthwork to provide consultation and monitor compliance with the requirements set forth in the 2007 California Administrative Code, section 4-211, Observation and Inspection of Construction (depending on the site conditions, this may be the responsibility of either the soils engineer, the engineering geologist, or both). D. The design engineer shall: <ol style="list-style-type: none"> 1. Be directly responsible for the design of the proposed structures and equipment supports; 2. Provide consultation to the RE during design and construction of the project; 3. Monitor construction progress to ensure compliance with engineering LORS; 4. Evaluate and recommend necessary changes in design; and 5. Prepare and sign all major building plans, specifications, and calculations. E. The mechanical engineer shall be responsible for, and sign and stamp a statement with, each mechanical submittal to the CBO, stating that the proposed final design plans, specifications, and calculations conform to all of the mechanical engineering design requirements set forth in BLM's Right-of-Way Decision and the Energy Commission's decision. F. The electrical engineer shall: <ol style="list-style-type: none"> 1. Be responsible for the electrical design of the project; and 2. Sign and stamp electrical design drawings, plans, specifications, and calculations. 							
Facility Design	GEN-6	<p>Prior to the start of an activity requiring special inspection, the project owner shall assign to the project a qualified and certified special inspector(s) who shall be responsible for the special inspections required by the 2007 CBC, Chapter 17, section 1704, Special Inspections; Chapter 17A, section 1704A, Special Inspections; and Appendix Chapter 1, Section 109, Inspections. All transmission facilities (lines, switchyards, switching stations, and substations) are handled in</p>	<p>At least 15 days (or within a project owner- and CBO-approved alternative time frame) prior to the start of an activity requiring special inspection, the project owner shall submit to the CBO for review and approval, with a copy to BLM's Authorized Officer and the CPM, the name(s) and qualifications of the certified weld inspector(s) or other certified special inspector(s) assigned to the project to perform one or more of the duties</p>	X		As needed	As needed		
Facility Design	GEN-7	<p>If any discrepancy in design and/or construction is discovered in any engineering work that has undergone CBO design review and approval, the project owner shall document the discrepancy and recommend required corrective actions (2007 CBC, Appendix Chapter 1, section 109.6, Approval Required; Chapter 17, section 1704.1.2, Report Requirements). The discrepancy documentation shall be submitted to the CBO for review and approval. The discrepancy documentation shall reference this condition of certification and, if appropriate, applicable sections of the CBC and/or other LORS.</p>	<p>The project owner shall transmit a copy of the CBO's approval of any corrective action taken to resolve a discrepancy to BLM's Authorized Officer and the CPM in the next monthly compliance report. If any corrective action is disapproved, the project owner shall advise BLM's Authorized Officer and the CPM, within 5 days, of the reason for disapproval and the revised corrective action to obtain CBO's approval.</p>	X		As needed	As needed		
Facility Design	GEN-8	<p>The project owner shall obtain the CBO's final approval of all completed work that has undergone CBO design review and approval. The project owner shall request the CBO to inspect the completed structure and review the submitted documents. The project owner shall notify BLM's Authorized Officer and the CPM after obtaining the CBO's final approval. The project owner shall retain one set of approved engineering plans, specifications, and calculations (including all approved changes) at the project site or at an alternative site approved by BLM's Authorized Officer and the CPM during the operating life of the project (2007 CBC, Appendix Chapter 1, section 106.3.1, Approval of Construction Documents). Electronic copies of the approved plans, specifications, calculations, and marked-up as-builts shall be provided to the CBO for retention by BLM's Authorized Officer and the CPM.</p>	<p>Within 15 days of the completion of any work, the project owner shall submit to the CBO, with a copy to BLM's Authorized Officer and the CPM, in the next monthly compliance report, (a) a written notice that the completed work is ready for final inspection, and (b) a signed statement that the work conforms to the final approved plans. After storing the final approved engineering plans, specifications, and calculations described above, the project owner shall submit to BLM's Authorized Officer and the CPM a letter stating both that the above documents have been stored and the storage location of those documents.</p> <p>Within 90 days of the completion of construction, the project owner shall provide to the CBO three sets of electronic copies of the above documents at the project owner's expense. These are to be provided in the form of "read only" (Adobe .pdf 6.0) files, with restricted (password-protected) printing privileges, on archive quality compact discs.</p>	X		As needed	Ongoing		

Geology & Paleontology	GEO-1	The Soils Engineering Report required by Section 1802A of the 2007 CBC should specifically include laboratory test data, associated geotechnical engineering analyses, and a thorough discussion of the potential for liquefaction; settlement due to compressible soils, subsidence associated with shrinkage of clay soils, hydrocompaction, or dynamic compaction; and the presence of expansive clay soils. The report should also include recommendations for ground improvement and/or foundation systems necessary to mitigate these potential geologic hazards, if present.	The project owner shall include in the application for a grading permit a copy of the Soils Engineering Report which addresses the potential for liquefaction; settlement due to compressible soils, groundwater withdrawal, hydrocompaction, or dynamic compaction; and the possible presence of expansive clay soils, and a summary of how the results of the analyses were incorporated into the project foundation and grading plan design for review and comment by the Chief Building Official (CBO). A copy of the Soils Engineering Report, application for grading permit and any comments by the CBO are to be provided to BLM's Authorized Officer and the CPM at least 30 days prior to start of ground disturbance activities.	X	X		8/20/2010 (Unit 1 and CLA) 9/3/2010 (Unit 2) 9/17/2010 (Unit 3)	Approved	10/4/2010	10/7/2010	
Hazardous Materials	HAZ-1	The project owner shall not use any hazardous materials not listed in Hazardous Materials Appendix A, below, or in greater quantities than those identified by chemical name in Hazardous Materials Appendix A, unless approved in advance by the BLM's Authorized Officer and Compliance Project Manager (CPM).	The project owner shall provide to BLM's Authorized Officer and the CPM in the Annual Compliance Report, a list of hazardous materials contained at the facility.			X	Annually	Ongoing			
Hazardous Materials	HAZ-2	The project owner shall concurrently provide a Hazardous Materials Business Plan to the Hazardous Materials Division of the County of San Bernardino Fire Department, BLM's Authorized Officer and the CPM for review. After receiving comments from the Hazardous Materials Division of the County of San Bernardino Fire Department, BLM's Authorized Officer and the CPM, the project owner shall reflect all received recommendations in the final documents. If no comments are received from the county within 30 days of submittal, the project owner may proceed with preparation of final documents upon receiving comments from BLM's Authorized Officer and the CPM. Copies of the final Hazardous Materials Business Plan shall then be provided to the Hazardous Materials Division of the County of San Bernardino Fire Department for information and to the BLM's Authorized Officer and CPM for approval.	At least 60 days prior to receiving any hazardous material on the site for commissioning or operations, the project owner shall provide a copy of a final Hazardous Materials Business Plan to BLM's Authorized Officer and the CPM for approval.			X	TBD	As needed			
Hazardous Materials	HAZ-3	The project owner shall develop and implement a Safety Management Plan for delivery of liquid hazardous materials. The plan shall include procedures, protective equipment requirements, training and a checklist. It shall also include a section describing all measures to be implemented to prevent mixing of incompatible hazardous materials. This plan shall be applicable during construction, commissioning, and operation of the power plant.	At least sixty (60) days prior to the delivery of any liquid hazardous material to the facility, the project owner shall provide a Safety Management Plan as described above to BLM's Authorized Officer and the CPM for review and approval.		X	X	6/11/2010	Approved	7/9/2010	10/7/2010	
Hazardous Materials	HAZ-4	Prior to commencing construction, a site-specific Construction Site Security Plan for the construction phase shall be prepared and made available to BLM's Authorized Officer and the CPM for review and approval.	At least thirty (30) days prior to commencing construction, the project owner shall notify BLM's Authorized Officer and the CPM that a site-specific Construction Security Plan is available for review and approval. The Construction Security Plan shall include the following: 1. Perimeter security consisting of fencing enclosing the construction area; 2. Security guards; 3. Site access control consisting of a check-in procedure or tag system for construction personnel and visitors; 4. Written standard procedures for employees, contractors and vendors when encountering suspicious objects or packages on-site or off-site; 5. Protocol for contacting law enforcement, BLM's Authorized Officer and the CPM in the event of suspicious activity or emergency; and 6. Evacuation procedures	X			8/13/2010	Approved	8/13/2010	10/7/2010	
Hazardous Materials	HAZ-5	The project owner shall prepare a site-specific Operation Security Plan for the operational phase, which shall be made available to BLM's Authorized Officer and the CPM for review and approval. The project owner shall implement site security measures addressing physical site security and hazardous materials storage.	At least 30 days prior to the initial receipt of hazardous materials onsite, the project owner shall notify BLM's Authorized Officer and the CPM that a sitespecific Operations Site Security Plan is available for review and approval. In the Annual Compliance Report, the project owner shall include a statement that all current project employee and appropriate contractor background investigations have been performed, and updated certification statements are appended to the Operations Security Plan. In the Annual Compliance Report, the project owner shall include a statement that the Operations Security Plan includes all current hazardous materials transport vendor certifications for security plans and employee background investigations. The level of security to be implemented shall not be less than that described below (as per NERC 2002). The Operations Security Plan shall include the following: 1. Permanent full perimeter fence or wall, at least eight feet high around the Solar Field; Ivanpah Solar Electric Generating System Page 15 07-AFC-5 2. Main entrance security gate, either hand operable or motorized; 3. Evacuation procedures; 4. Protocol for contacting law enforcement, BLM's Authorized Officer and the CPM in the event of suspicious activity or emergency or conduct endangering the facility, its employees, or contractors; and 5. Written standard procedures for employees, contractors and vendors when encountering suspicious objects or packages on-site or off-site: a. A statement (refer to sample, attachment "A") signed by the project owner certifying that background investigations have been conducted on all project personnel. Background investigations shall be restricted to ascertain the accuracy of employee identity and employment history, and shall be conducted in accordance with state and federal law regarding security and privacy; b. A statement(s) (refer to sample, attachment "B") signed by the contractor or authorized representative(s) for any permanent contractors or other technical contractors (as determined by BLM's Authorized Officer and the CPM after consultation with the project owner) that are present at any time on the site to repair, maintain, investigate, or conduct any other technical duties involving critical components (as determined by BLM's Authorized Officer and the CPM after consultation with the project owner) certifying that background investigations have been conducted on contractor personnel that visit the project site. Background investigations shall be restricted to ascertain the accuracy of employee identity and employment history, and shall be conducted in accordance with state and federal law regarding security and privacy; 6. a. A statement (refer to sample, attachment "A") signed by the project owner certifying that background investigations have been conducted on all project personnel. Background investigations shall be restricted to ascertain the accuracy of employee identity and employment history, and shall be conducted in accordance with state and federal law regarding security and privacy; b. A statement(s) (refer to sample, attachment "B") signed by the contractor or authorized representative(s) for any permanent contractors or other technical contractors (as determined by BLM's Authorized Officer and the CPM after consultation with the project owner) that are present at any time on the site to repair, maintain, investigate, c			X	X	TBD	As needed		

Hazardous Materials	HAZ-5 (continued)		8. Closed Circuit TV (CCTV) monitoring system, recordable, and viewable in the power plant control room and security station (if separate from the control room) capable of viewing, at a minimum, the main entrance gate; and 9. Additional measures to ensure adequate perimeter security consisting of either: a. Security guard present 24 hours per day, seven days per week, OR b. Power plant personnel on-site 24 hours per day, seven days per week and all of the following: 1) The CCTV monitoring system required in number 8 above shall include cameras that are able to pan, tilt, and zoom (PTZ), have Ivanpah Solar Electric Generating System Page 16 07-AFC-5 low-light capability, are recordable, and are able to view 100% of the perimeter fence, the outside entrance to the control room, and the front gate from a monitor in the power plant control room; AND 2) Perimeter breach detectors or on-site motion detectors. The project owner shall fully implement the security plans and obtain BLM's Authorized Officer and CPM approval of any substantive modifications to the security plans. BLM's Authorized Officer and the CPM may authorize modifications to these measures, or may require additional measures, such as protective barriers for critical power plant components (e.g., transformers, gas lines, compressors, etc.) depending on circumstances unique to the facility or in response to industry-related standards, security concerns, or additional guidance provided by the U.S. Department of Homeland Security, the U.S. Department of Energy, or the North American Electrical Reliability Council, after consultation with appropriate law enforcement agencies and the project owner.	X	X	TBD	As needed			
Hazardous Materials	HAZ-6	The holder (project owner) shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder(s) shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, Section 102b	A copy of any report required or requested by any Federal agency or State government entity as a result of a reportable release or spill of any toxic substances shall be furnished to BLM's Authorized Officer and the CPM concurrent with the filing of the reports with the Federal or State governmental entity.	X	X	TBD	As needed			
Land Use	LAND-1	The project owner shall obtain a Right-of-Way Grant (ROW Grant) from the Bureau of Land Management (BLM). Among the conditions for obtaining the ROW grant, the applicant shall provide the following: A. Prior to issuance of any right of way grant, the project owner shall submit a final Plan(s) of Development that describes detail the construction, operation, maintenance, and termination of the right-of-way and its associated improvements and/or facilities. The project owner shall construct, operate, and maintain the facilities, improvements, and structures within this right-of-way in strict conformity with the final approved Plan of Development. The degree and scope of these plans will vary depending upon (1) the complexity of the right-of-way or its associated improvements and/or facilities, (2) the anticipated conflicts that require mitigation, and (3) additional technical information required by BLM's Authorized Officer and the CPM. The plans will be reviewed, and if appropriate, modified by the project owner until acceptable, and approved by BLM's Authorized Officer and the CPM. B. A bond, acceptable to BLM's Authorized Officer, shall be furnished by the owner prior to the issuance of a Notice to Proceed with construction or at such earlier date as may be specified by BLM's Authorized Officer. The amount of this bond shall be determined by BLM's Authorized Officer. This bond must be maintained in effect until removal of improvements and restoration of the right-of-way have been accepted by BLM's Authorized Officer and the CPM.	At least 30 days prior to the start of construction and prior to any Notice to Proceed with construction issued by BLM's Authorized Officer and the CPM, the project owner shall provide BLM's Authorized Officer and the CPM with documentation of the following: A. BLM's ROW Grant and final approved Plan of Development; B. The bond satisfactory to BLM's Authorized Officer; C. Certification that the project owner acknowledges that the ISEGS development and all related construction, operation, maintenance and closure activities are to be conducted in conformance with the approved Plan of Development and within the approved ROW boundaries for the life of the project.	X		9/17/2010	Approved	10/4/2010	10/7/2010	
Land Use	LAND-2	Project Owner shall allow a setback between the (1) security and tortoise exclusion fence, and (2) the proposed ROW boundary. Once the fencing is constructed, all inspection, monitoring, and maintenance activities required outside of the fencing will occur on lands included within this setback area.	At least thirty (30) days prior to the start of construction, the project owner shall provide BLM's Authorized Officer and the CPM with a revised project description and construction plans specifying the inclusion of a setback area. The setback area shall be a minimum 20 feet wide within the ROW boundaries between the tortoise fence and the ROW boundary on the upslope boundary of the ROW, and a minimum 8-12 foot wide between the tortoise fence and ROW boundary on side and downslope boundaries. The project owner shall also provide BLM's Authorized Officer and the CPM with certification acknowledging that the ISEGS development and all related construction, operation, maintenance and closure activities are to be conducted within the ROW boundaries for the life of the project.	X		7/9/2010	Approved	7/16/2010	10/7/2010	
Land Use	LAND-3	Prior to the start of commercial operations of the first ISEGS power plant to be constructed, the project owner shall prepare plans for a Solar / Ecological Interpretive Center to be developed to in the vicinity of the ISEGS project. The project owner consultation with the County shall propose a location on-site or off-site that provides a vantage point to observe as many features as is possible of the ISEGS project without compromising safety or security. The project owner's plans for the Solar / Ecological Interpretive Center may be coordinated with San Bernardino County. The Solar / Ecological Interpretive Center shall include or make accessible to the public the following features: 1. surfaced public parking 2. information kiosks describing ISEGS solar energy technology; 3. picnic area with tables, 4. garbage cans; 5. interpretive signs identifying local landmarks and ecological features; 6. a contained restroom facility (or reasonable access to a facility with flush toilets and sinks should the Solar / Ecological Interpretive Center be constructed adjacent to another facility having a restroom).	At least 30 days prior to commercial operation of the first power plant of the ISEGS development, the project owner shall submit plans to BLM's Authorized Officer and the CPM for review and approval for a Solar / Ecological Interpretive Center to be developed in the ISEGS vicinity in coordination with San Bernardino County. Within 6 months of approval of the proposed Solar / Ecological Interpretive Center plans (1) by the Commission and the BLM, for an on-site Center, or (2) by the County of San Bernardino, for an off-site Center, being final and no longer subject to administrative or judicial review, the project owner shall commence construction of the Center and shall to the extent feasible complete construction within one year following the start of construction if the Center is located off of the ISEGS site. If located onsite, then construction of the Center shall follow the completion of all ISEGS construction. Upon completion the project owner shall submit notice to BLM and the Energy Commission that it has completed construction of the Solar / Ecological Interpretive Center. In each Annual Compliance Report, the project owner shall provide a summary of estimated public use of the Solar / Ecological Interpretive Center and summarize any issues associated with operating and maintenance activities.		X	2013	Not yet started			
Facility Design	MECH-1	The project owner shall submit, for CBO design review and approval, the proposed final design, specifications, and calculations for each plant major piping and plumbing system listed in Facility Design Table 2, Condition of Certification GEN-2, above. Physical layout drawings and drawings not related to code compliance and life safety need not be submitted. The submittal shall also include the applicable QA/QC procedures. Upon completion of construction of any such major piping or plumbing system, the project owner shall request the CBO's inspection approval of that construction (2007 CBC, Appendix Chapter 1, section 106.1, Submittal Documents; section 109.5, Inspection Requests; section 109.6, Approval Required; 2007 California Plumbing Code, section 301.1.1, Approvals). The responsible mechanical engineer shall stamp and sign all plans, drawings, and calculations for the major piping and plumbing systems, subject to CBO design review and approval, and submit a signed statement to the CBO when the proposed piping and plumbing systems have been designed, fabricated, and installed in accordance with all of the applicable laws, ordinances, regulations and industry standards (2007 CBC, Appendix Chapter 1, section 106.3.4, Design Professional in Responsible Charge), which may include, but are not limited to: • American National Standards Institute (ANSI) B31.1 (Power Piping Code); • ANSI B31.2 (Fuel Gas Piping Code); • ANSI B31.3 (Chemical Plant and Petroleum Refinery Piping Code); • ANSI B31.8 (Gas Transmission and Distribution Piping Code); • Title 24, California Code of Regulations, Part 5 (California Plumbing Code); • Title 24, California Code of Regulations, Part 6 (California Energy Code, for building energy conservation systems and temperature control and ventilation systems); • Title 24, California Code of Regulations, Part 2 (California Building Code); and • San Bernardino County codes. The CBO may deputize inspectors to carry out the functions of the code enforcement agency (2007 CBC, Appendix Chapter 1, section 103.3, Deputies).	At least 30 days (or within a project owner- and CBO-approved alternative time frame) prior to the start of any increment of major piping or plumbing construction listed in Facility Design Table 1, Condition of Certification GEN-2, above, the project owner shall submit to the CBO for design review and approval the final plans, specifications, and calculations, including a copy of the signed and stamped statement from the responsible mechanical engineer certifying compliance with applicable LORS, and shall send BLM's Authorized Officer and the CPM a copy of the transmittal letter in the next monthly compliance report. The project owner shall transmit to BLM's Authorized Officer and the CPM, in the monthly compliance report following completion of any inspection, a copy of the transmittal letter conveying the CBO's inspection approvals.	X		TBD	Not yet started			

Facility Design	MECH-2	For all pressure vessels installed in the plant, the project owner shall submit to the CBO and California Occupational Safety and Health administration (Cal/OSHA), prior to operation, the code certification papers and other documents required by applicable LORS. Upon completion of the installation of any pressure vessel, the project owner shall request the appropriate CBO and/or Cal/OSHA inspection of that installation (2007 CBC, Appendix Chapter 1, section 109.5, Inspection Requests). The project owner shall: 1. Ensure that all boilers and fired and unfired pressure vessels are designed, fabricated, and installed in accordance with the appropriate section of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, or other applicable code. Vendor certification, with identification of applicable code, shall be submitted for prefabricated vessels and tanks; and 2. Have the responsible design engineer submit a statement to the CBO that the proposed final design plans, specifications and calculations conform to all of the requirements set forth in the appropriate ASME Boiler and Pressure Vessel Code or other applicable codes.	At least 30 days (or within a project owner- and CBO-approved alternative time frame) prior to the start of on-site fabrication or installation of any pressure vessel, the project owner shall submit to the CBO for design review and approval the above-listed documents, including a copy of the signed and stamped engineer's certification, with a copy of the transmittal letter to BLM's Authorized Officer and the CPM. The project owner shall transmit to BLM's Authorized Officer and the CPM, in the monthly compliance report following completion of any inspection, a copy of the transmittal letter conveying the CBO's and/or Cal/OSHA inspection approvals.		X		TBD	Not yet started			
Facility Design	MECH-3	The project owner shall submit to the CBO for design review and approval the design plans, specifications, calculations, and quality control procedures for any heating, ventilating, air conditioning (HVAC), or refrigeration system. Packaged HVAC systems, where used, shall be identified with the appropriate manufacturer's data sheets.	The project owner shall design and install all HVAC and refrigeration systems within buildings and related structures in accordance with the CBC and other applicable codes. Upon completion of any increment of construction, the project owner shall request the CBO's inspection and approval of that construction. The final plans, specifications, and calculations shall include approved criteria, assumptions, and methods used to develop the design. In addition, the responsible mechanical engineer shall sign and stamp all plans, drawings, and calculations and submit a signed statement to the CBO that the proposed final design plans, specifications, and calculations conform with the applicable LORS (2007 CBC, Appendix Chapter 1, section 109.3.7, Energy Efficiency Inspections; section 106.3.4, Design Professionals in Responsible Charge). At least 30 days (or within a project owner- and CBO-approved alternative time frame) prior to the start of construction of any HVAC or refrigeration system, the project owner shall submit to the CBO the required HVAC and refrigeration calculations, plans, and specifications, including a copy of the signed and stamped statement from the responsible mechanical engineer certifying compliance with the CBC and other applicable codes, with a copy of the transmittal letter to BLM's Authorized Officer and the CPM.		X		TBD	Not yet started			
Noise & Vibration	NOISE-1	Prior to the start of ground disturbance, the project owner shall notify the operator of the Primm Valley Golf Course, by mail or other effective means, of the commencement of project construction. At the same time, the project owner shall establish a telephone number for use by the public to report any undesirable noise conditions associated with the construction and operation of the project and include that telephone number in the above notice. If the telephone is not staffed 24 hours per day, the project owner shall include an automatic answering feature, with date and time stamp recording, to answer calls when the phone is unattended. This telephone number shall be posted at the project site during construction in a manner visible to passersby. This telephone number shall be maintained until the project has been operational for at least one year.	At least 15 days prior to ground disturbance, the project owner shall transmit to BLM's Authorized Officer and the Compliance Project Manager (CPM) a statement, signed by the project owner's project manager, stating that the above notification has been performed and describing the method of that notification, verifying that the telephone number has been established and posted at the site, and giving that telephone number.		X		10/7/2010	Approved	10/7/2010	10/7/2010	
Noise & Vibration	NOISE-2	Throughout the construction (including steam blow activities) and operation of the ISEGS, the project owner shall document, investigate, evaluate, and attempt to resolve all project related noise complaints. The project owner or authorized agent shall: • Use the Noise Complaint Resolution Form (below), or a functionally equivalent procedure acceptable to BLM's Authorized Officer and the CPM, to document and respond to each noise complaint; • Attempt to contact the person(s) making the noise complaint within 24 hours; • Conduct an investigation to determine the source of noise related to the complaint; • Take all feasible measures to reduce the noise at its source if the noise is project related; and • Submit a report documenting the complaint and the actions taken. The report shall include: a complaint summary, including final results of noise reduction efforts, and if obtainable, a signed statement by the complainant stating that the noise problem is resolved to the complainant's satisfaction	Within 5 days of receiving a noise complaint, the project owner shall file a copy of the Noise Complaint Resolution Form with BLM's Authorized Officer and the CPM, documenting the resolution of the complaint. If mitigation is required to resolve a complaint, and the complaint is not resolved within a 3-day period, the project owner shall submit an updated Noise Complaint Resolution Form when the mitigation is implemented		X	X	TBD	As needed			
Noise & Vibration	NOISE-3	The project owner shall submit to BLM's Authorized Officer and the CPM for review and approval a noise control program and a statement, signed by the project owner's project manager, verifying that the noise control program will be implemented throughout construction of the project. The noise control program shall be used to reduce employee exposure to high noise levels during construction and also to comply with applicable OSHA and Cal/OSHA standards.	At least 30 days prior to the start of ground disturbance, the project owner shall submit to BLM's Authorized Officer and the CPM the noise control program and the project owner's project manager's signed statement. The project owner shall make the program available to Cal/OSHA upon request.		X		8/13/2010	Approved	8/11/2010	10/7/2010	
Noise & Vibration	NOISE-4	The project design and implementation shall include appropriate noise mitigation measures adequate to ensure that operation of the project will not cause noise complaints from residents of Primm, Nevada, or from the operator of the Primm Valley Golf Course or from visitors from the Mojave National Preserve. If legitimate project-related noise complaints are received from residents of Primm, the project owner shall perform a noisuresurvey to demonstrate that noise levels due to plant operation do not exceed an average of 45 dBA Leq measured at the nearest residence of the community of Primm, Nevada. If legitimate project-related noise complaints are received from the operator of the Primm Valley Golf Course, or visitors from the Mojave National Preserve, the project owner shall perform a noise survey to demonstrate that noise levels due to plant operation do not exceed an average of 55 dBA Leq measured at the nearest boundary of the golf course, or the nearest boundary of the Mojave National Preserve, respectively. No new project components creating pure-tone noises will be added to the project unless they are balanced by other plant features. No single piece of equipment shall be allowed to stand out as a source of noise that draws legitimate complaints. A. The measurement of power plant noise for the purposes of demonstrating compliance with this condition of certification may alternatively be made at a location, acceptable to BLM's Authorized Officer and the CPM, closer to the plant (e.g., 400 feet from the plant boundary) and this measured level then mathematically extrapolated to determine the plant noise contribution at the affected location. The character of the plant noise shall be evaluated at the affected residential locations to determine the presence of pure tones or other dominant sources of plant noise.	The survey shall take place within 30 days of the receipt of the noise complaint, unless the complaint has been resolved to the complaining party's satisfaction. Within 15 days after completing the survey, the project owner shall submit a summary report of the survey to BLM's Authorized Officer and the CPM. Included in the survey report will be a description of additional mitigation measures (if any) necessary to achieve compliance with the above-listed noise limit and a schedule, subject to BLM's Authorized Officer and CPM approval, for implementing these measures. When these measures are in place, the project owner shall repeat the noise survey. Within 15 days of completion of the new survey, the project owner shall submit to BLM's Authorized Officer and the CPM a summary report of the new noise survey, performed as described above and showing compliance with this condition.		X	X	TBD	As needed			
Noise & Vibration	NOISE-5	Following each phase (Ivanpah 1, Ivanpah 2, and Ivanpah 3) of the project's first achieving a sustained output of 80 percent or greater of rated capacity, the project owner shall conduct an occupational noise survey to identify the noise hazardous areas in the facility. The surveys shall be conducted by a qualified person in accordance with the provisions of Title 8, California Code of Regulations sections 5095-5099 and Title 29, Code of Federal Regulations section 1910.95. The survey results shall be used to determine the magnitude of employee noise exposure. The project owner shall prepare reports of the survey results and, if necessary, identify proposed mitigation measures that will be employed to comply with the applicable California and federal regulations.	Within 30 days after completing each survey, the project owner shall submit the noise survey report to BLM's Authorized Officer and the CPM. The project owner shall make the reports available to OSHA and Cal/OSHA upon request.		X	X	TBD	As needed			
Noise & Vibration	NOISE-6	Noisy construction work or heavy equipment operation that causes offsite annoyance as evidenced by the filing of a legitimate noise complaint shall be restricted to 7:00 am to 7:00 pm time period. Haul trucks shall be operated in accordance with posted speed limits. Truck engine exhaust brake use shall be limited to emergencies.	Prior to ground disturbance, the project owner shall transmit to BLM's Authorized Officer and the CPM a statement acknowledging that the above restrictions will be observed throughout the construction of the project.		X		8/13/2010	Approved	7/29/2010	9/2/2010	

Noise & Vibration	NOISE-7	If a high-pressure steam blow is employed, the project owner shall equip steam blow piping with a temporary silencer or take other effective measures that quiet the noise of steam blows to no greater than 60 dBA measured at the Primm Valley Golf Club to no greater than 55 dBA measured at any affected residential locations in Primm, NV and to no greater than 50 dBA measured at the nearest boundary of the Mojave National Preserve. The project owner shall conduct high-pressure steam blows only during the hours of 7:00 a.m. to 7:00 p.m. If a low-pressure continuous steam blow is employed, the project owner shall limit the noise of steam blows to no greater than 45 dBA measured at any affected residential location in Primm, NV. In lieu of specifying the level of silencing above, the project owner may alternatively submit an analysis to the BLM's Authorized Officer and the CPM that documents that during either high or low pressure steam blows, steam blow noise levels would not exceed 60 dBA at the Primm Valley Golf Club (daytime), or 55 dBA (daytime)/45 dBA (nighttime) at the nearest residential location in Primm.	At least fifteen (15) days prior to the first high pressure steam blow, the project owner shall submit to BLM's Authorized Officer and the CPM drawings or other information describing the temporary steam blow silencer or other noise attenuating measures to be taken, the noise levels expected and a description of the steam blow schedule. At least fifteen (15) days prior to any low-pressure continuous steam blow, the project owner shall submit to BLM's Authorized Officer and the CPM drawings or other information describing the process, including the noise levels expected and the projected time schedule for execution of the process.	X			TBD	Not yet started				
Geology & Paleontology	PAL-1	The project owner shall provide BLM's Authorized Officer and the Compliance Project Manager (CPM) with the resume and qualifications of its PRS for review and approval. If the approved PRS is replaced prior to completion of project mitigation and submittal of the Paleontological Resources Report, the project owner shall obtain BLM's Authorized Officer and CPM approval of the replacement PRS. The project owner shall keep resumes on file for qualified Paleontological Resource Monitors (PRMs). If a PRM is replaced, the resume of the replacement PRM shall also be provided to BLM's Authorized Officer and the CPM. The PRS resume shall include the names and phone numbers of references. The resume shall also demonstrate to the satisfaction of BLM's Authorized Officer and the CPM the appropriate education and experience to accomplish the required paleontological resource tasks. As determined by BLM's Authorized Officer and the CPM, the PRS shall meet the minimum qualifications for a vertebrate paleontologist as described in the Society of Vertebrate Paleontology (SVP) guidelines of 1995. The experience of the PRS shall include the following: 1. Institutional affiliations, appropriate credentials, and college degree; 2. Ability to recognize and collect fossils in the field; 3. Local geological and biostratigraphic expertise; 4. Proficiency in identifying vertebrate and invertebrate fossils; and 5. At least three years of paleontological resource mitigation and field experience in California and at least one year of experience leading paleontological resource mitigation and field activities. The project owner shall ensure that the PRS obtains qualified paleontological resource monitors to monitor as he or she deems necessary on the project. Paleontological Resource Monitors (PRMs) shall have the equivalent of the following qualifications: • BS or BA degree in geology or paleontology and one year of experience monitoring in California; or • AS or AA in geology, paleontology, or biology and four years' experience monitoring in California; or • Enrollment in upper division classes pursuing a degree in the fields of geology or paleontology and two years of monitoring experience in California	(1) At least 60 days prior to the start of ground disturbance, the project owner shall submit a resume and statement of availability of its designated PRS for onsite work. (2) At least 20 days prior to ground disturbance, the PRS or project owner shall provide a letter with resumes naming anticipated monitors for the project, stating that the identified monitors meet the minimum qualifications for paleontological resource monitoring required by the condition. If additional monitors are obtained during the project, the PRS shall provide additional letters and resumes to BLM's Authorized Officer and the CPM. The letter shall be provided to BLM's Authorized Officer and the CPM no later than one week prior to the monitor's beginning on-site duties. (3) Prior to the termination or release of a PRS, the project owner shall submit the resume of the proposed new PRS to BLM's Authorized Officer and the CPM for review and approval.	X		6/11/2010	Approved	6/11/2010	10/7/2010			
Geology & Paleontology	PAL-2	The project owner shall provide to the PRS, BLM's Authorized Officer and the CPM, for approval, maps and drawings showing the footprint of the power plants, construction lay down areas, and all related facilities. Maps shall identify all areas of the project where ground disturbance is anticipated. If the PRS requests enlargements or strip maps for linear facility routes, the project owner shall provide copies to the PRS, BLM's Authorized Officer and CPM. The site grading plan and plan and profile drawings for the utility lines would be acceptable for this purpose. The plan drawings should show the location, depth, and extent of all ground disturbances and be at a scale of 1 inch = 40 feet to 1 inch = 100 feet range. If the footprint of the project or its linear facilities change, the project owner shall provide maps and drawings reflecting those changes to the PRS, BLM's Authorized Officer and CPM. If construction of the ISEGS project proceeds in phases, maps and drawings may be submitted prior to the start of each power plant. A letter identifying the proposed schedule of each project power plant shall be provided to the PRS, BLM's Authorized Officer and CPM. Before work commences on affected power plants, the project owner shall notify the PRS, BLM's Authorized Officer and CPM of any construction phase scheduling changes. At a minimum, the project owner shall ensure that the PRS or PRM consults weekly with the project superintendent or construction field manager to confirm area(s) to be worked the following week, and until ground disturbance is completed.	(1) At least 30 days prior to the start of ground disturbance for each phase of the project, the project owner shall provide the maps and drawings to the PRS, BLM's Authorized Officer and CPM. (2) If there are changes to the footprint of the project, revised maps and drawings shall be provided to the PRS, BLM's Authorized Officer and CPM at least 15 days prior to the start of ground disturbance for each phase of the project. (3) If there are changes to the scheduling of the construction phases of each power plant, the project owner shall submit a letter to BLM's Authorized Officer and the CPM within 5 days of identifying the changes.	X		8/2/2010	Approved	7/30/2010	9/2/2010			
Geology & Paleontology	PAL-3	If after review of the plans provided pursuant to PAL-2, the PRS determines that materials with moderate, high, or unknown paleontological sensitivity could be impacted, the project owner shall ensure that the PRS prepares, and the project owner submits to BLM's Authorized Officer and the CPM for review and approval, a paleontological resources monitoring and mitigation plan (PRMMP) to identify general and specific measures to minimize potential impacts to paleontological resources. Approval of the PRMMP by BLM's Authorized Officer and the CPM shall occur prior to any ground disturbance. The PRMMP shall function as the formal guide for monitoring, collecting, and sampling activities, and may be modified with BLM's Authorized Officer and CPM approval. This document shall be used as the basis of discussion when on-site decisions or changes are proposed. Copies of the PRMMP shall reside with the PRS, each monitor, the project owner's on-site manager, BLM's Authorized Officer and the CPM. The PRMMP shall be developed in accordance with the guidelines of the Society of Vertebrate Paleontology (SVP 1995) and shall include, but not be limited, to the following: 1. Assurance that the performance and sequence of project-related tasks, such as any literature searches, pre-construction surveys, worker environmental training, fieldwork, flagging or staking, construction monitoring, mapping and data recovery, fossil preparation and collection, identification and inventory, preparation of final reports, and transmittal of materials for curation will be performed according to PRMMP procedures; 2. Identification of the person(s) expected to assist with each of the tasks identified within the PRMMP and the conditions of certification;	At least 30 days prior to ground disturbance, the project owner shall provide a copy of the PRMMP to BLM's Authorized Officer and the CPM. The PRMMP shall include an affidavit of authorship by the PRS, and acceptance of the PRMMP by the project owner evidenced by a signature.	X		8/13/2010	Approved	8/20/2010	9/30/2010			
Geology & Paleontology	PAL-3 (Continued)	3. A thorough discussion of the anticipated geologic units expected to be encountered, the location and depth of the units relative to the project when known, and the known sensitivity of those units based on the occurrence of fossils either in that unit or in correlative units; 4. An explanation of why, how, and how much sampling is expected to take place and in what units. Include descriptions of different sampling procedures that shall be used for fine-grained and coarse-grained units; 5. A discussion of the locations of where the monitoring of project construction activities is deemed necessary, and a proposed plan for monitoring and sampling; 6. A discussion of procedures to be followed in the event of a fossil discovery, halting construction, resuming construction, and how notifications will be performed; 7. A discussion of equipment and supplies necessary for collection of fossil materials and any specialized equipment needed to prepare, remove, load, transport, and analyze large-sized fossils or extensive fossil deposits; 8. Procedures for inventory, preparation, and delivery for curation into a retrievable storage collection in a public repository or museum, which meet the Society of Vertebrate Paleontology's standards and requirements for the curation of paleontological resources; 9. Identification of the institution that has agreed to receive data and fossil materials collected, requirements or specifications for materials delivered for curation, and how they will be met, and the name and phone number of the contact person at the institution; and 10. A copy of the paleontological conditions of certification.										

Geology & Paleontology	PAL-4	<p>If after review of the plans provided pursuant to PAL-2, the PRS determines that materials with moderate, high, or unknown paleontological sensitivity could be impacted then, prior to ground disturbance and for the duration of construction activities involving ground disturbance, the project owner and the PRS shall prepare and conduct weekly BLM Authorized Officer- and CPM approved training for the following workers: project managers, construction supervisors, foremen and general workers involved with or who operate ground-disturbing equipment or tools. Workers shall not excavate in sensitive units prior to receiving BLM Authorized Officer- and CPM-approved worker training. Worker training shall consist of an initial in-person PRS training during the project kick-off, for those mentioned above. Following initial training, a CPM-approved video or in-person training may be used for new employees. The training program may be combined with other training programs prepared for cultural and biological resources, hazardous materials, or other areas of interest or concern. No ground disturbance shall occur prior to BLM's Authorized Officer and CPM approval of the Worker Environmental Awareness Program (WEAP), unless specifically approved by the CPM. The WEAP shall address the possibility of encountering paleontological resources in the field, the sensitivity and importance of these resources, and legal obligations to preserve and protect those resources.</p> <p>The training shall include:</p> <ol style="list-style-type: none"> 1. A discussion of applicable laws and penalties under the law; 2. Good quality photographs or physical examples of vertebrate fossils for project sites containing units of high paleontological sensitivity; 3. Information that the PRS or PRM has the authority to halt or redirect construction in the event of a discovery or unanticipated impact to a paleontological resource; 4. Instruction that employees are to halt or redirect work in the vicinity of a find and to contact their supervisor and the PRS or PRM; 5. An informational brochure that identifies reporting procedures in the event of a discovery; 6. A WEAP certification of completion form signed by each worker indicating that he/she has received the training; and 7. A sticker that shall be placed on hard hats indicating that environmental training has been completed. 	<p>(1) At least 30 days prior to ground disturbance, the project owner shall submit to the BLM's Authorized Officer and the CPM the proposed WEAP, including the brochure, with the set of reporting procedures for workers to follow.</p> <p>(2) At least 30 days prior to ground disturbance, the project owner shall submit the script and final video to BLM's Authorized Officer and the CPM for approval if the project owner is planning to use a video for interim training.</p> <p>(3) If the owner requests an alternate paleontological trainer, the resume and qualifications of the trainer shall be submitted to BLM's Authorized Officer and the CPM for review and approval prior to installation of an alternate trainer. Alternate trainers shall not conduct training prior to BLM's Authorized Officer and CPM authorization.</p> <p>(4) In the monthly compliance report (MCR), the project owner shall provide copies of the WEAP certification of completion forms with the names of those trained and the trainer or type of training (in-person or video) offered that month. The MCR shall also include a running total of all persons who have completed the training to date.</p>	X	X		7/2/2010	Approved	7/6/2010	9/30/2010	
Geology & Paleontology	PAL-5	<p>The project owner shall ensure that the PRS and PRM(s) monitor consistent with the PRMMP all construction-related grading, excavation, trenching, and augering in areas where potential fossil-bearing materials have been identified, both at the site and along any constructed linear facilities associated with the project. In the event that the PRS determines full-time monitoring is not necessary in locations that were identified as potentially fossil-bearing in the PRMMP, the project owner shall notify and seek the concurrence of BLM's Authorized Officer and the CPM.</p> <p>The project owner shall ensure that the PRS and PRM(s) have the authority to halt or redirect construction if paleontological resources are encountered.</p> <p>The project owner shall ensure that there is no interference with monitoring activities unless directed by the PRS. Monitoring activities shall be conducted as follows:</p> <ol style="list-style-type: none"> 1. Any change of monitoring from the accepted schedule in the PRMMP shall be proposed in a letter or email from the PRS and the project owner to BLM's Authorized Officer and will be included in the monthly compliance report. The letter or email shall include the justification for the change in monitoring and be submitted to BLM's Authorized Officer and the CPM for review and approval. 2. The project owner shall ensure that the PRM(s) keep a daily monitoring log of paleontological resource activities. The PRS may informally discuss paleontological resource monitoring and mitigation activities with BLM's Authorized Officer and the CPM at any time. 3. The project owner shall ensure that the PRS notifies BLM's Authorized Officer and the CPM within 24 hours of the occurrence of any incidents of non-compliance with any paleontological resources conditions of certification. The PRS shall recommend corrective action to resolve the issues or achieve compliance with the conditions of certification. 4. For any paleontological resources encountered, either the project owner or the PRS shall notify BLM's Authorized Officer and the CPM within 24 hours, or Monday morning in the case of a weekend event where construction has been halted because of a paleontological find. The project owner shall ensure that the PRS prepares a summary of monitoring and other paleontological activities placed in the monthly compliance reports. The summary will include the name(s) of PRS or PRM(s) active during the month, general descriptions of training and monitored construction activities, and general locations of excavations, grading, and other activities. A section of the report shall include the geologic units or subunits encountered, descriptions of samplings within each unit, and a list of identified fossils. A final section of the report will address any issues or concerns about the project relating to paleontological resource monitoring, including any incidents of non-compliance or any changes to the monitoring plan that have been approved by BLM's Authorized Officer and the CPM. If no monitoring took place during the month, the report shall include an explanation in the summary as to why monitoring was not conducted. 	<p>The project owner shall ensure that the PRS submits the summary of monitoring and paleontological activities in the MCR. When feasible, BLM's Authorized Officer and the CPM shall be notified 10 days in advance of any proposed changes in monitoring different from the plan identified in the PRMMP. If there is any unforeseen change in monitoring, the notice shall be given as soon as possible prior to implementation of the change.</p>		X		Monthly	Ongoing			
Geology & Paleontology	PAL-6	<p>The project owner, through the designated PRS, shall ensure that all components of the PRMMP are adequately performed including collection of fossil materials, preparation of fossil materials for analysis, analysis of fossils, identification and inventory of fossils, the preparation of fossils for curation, and the delivery for curation of all paleontological resource materials encountered and collected during project construction.</p>	<p>The project owner shall maintain in his/her compliance file copies of signed contracts or agreements with the designated PRS and other qualified research specialists. The project owner shall maintain these files for a period of three years after project completion and approval of BLM Authorized Officer- and CPM-approved paleontological resource report (see PAL-7). The project owner shall be responsible for paying any curation fees charged by the museum for fossils collected and curated as a result of paleontological mitigation. A copy of the letter of transmittal submitting the fossils to the curating institution shall be provided to BLM's Authorized Officer and the CPM.</p>	X	X		As needed	As needed			
Geology & Paleontology	PAL-7	<p>The project owner shall ensure preparation of a Paleontological Resources Report (PRR) by the designated PRS. The PRR shall be prepared following completion of the ground-disturbing activities. The PRR shall include an analysis of the collected fossil materials and related information, and submit it to the CPM for review and approval.</p> <p>The report shall include, but is not limited to, a description and inventory of recovered fossil materials; a map showing the location of paleontological resources encountered; determinations of sensitivity and significance; and a statement by the PRS that project impacts to paleontological resources have been mitigated below the level of significance.</p>	<p>Within 90 days after completion of ground-disturbing activities, including landscaping, the project owner shall submit the PRR under confidential cover to BLM's Authorized Officer and the CPM.</p>	X	X		2013	Not yet started			
Recreation	REC-1	<p>Prior to the start of construction and in conformance with § 25529 of the Warren-Alquist Act, the project owner shall prepare plans for a Solar / Ecological Interpretive Center to be developed in the ISEGS Construction Logistics Area and submit them to BLM's Authorized Officer and the CPM for review and approval. The plans shall propose a location that if possible provides a vantage point to observe as many features as is possible of the ISEGS project without compromising ISEGS security requirements. The Solar / Ecological Interpretive Center shall include the following features:</p> <ol style="list-style-type: none"> 1. surfaced public parking for 12 vehicles (4 of which would allow vehicles with trailers); 2. information kiosks describing ISEGS solar energy technology; 3. picnic area with 8 shaded tables; 4. garbage cans; 5. interpretive signs identifying local landmarks and ecological features; 6. a two stall contained restroom facility (or a facility with flush toilets and sinks); 7. a drinking fountain; and 8. native plant landscaping with plant identification labels. <p>Prior to commercial operation of the first constructed power plant of the ISEGS development, the project owner shall complete construction of the Solar / Ecological Interpretive Center and request final approval by both BLM's Authorized Officer and the CPM. The project owner shall operate and maintain the Solar / Ecological Interpretive Center for the life of the ISEGS project.</p>	<p>Verification: At least 30 days prior to construction of the first power plant of the ISEGS development, the project owner shall submit plans for a Solar / Ecological Interpretive Center to be developed in the ISEGS Construction Logistics Area and submit them to BLM's Authorized Officer and the CPM for review and approval. Prior to commercial operation, the project owner shall submit notice to BLM and the Energy Commission that it has completed construction of the Solar / Ecological Interpretive Center and shall request final approval by both BLM's Authorized Officer and the CPM. After commercial operation and in each Annual Compliance Report for the life of the ISEGS project, the project owner shall provide a summary of estimated public utilization of the Solar / Ecological Interpretive Center and summarize any issues associated with operating and maintenance activities.</p>	X	X		2011	Not yet started			

Recreation	REC-2	The applicant shall allow and be required to afford public access to the routes for which BLM grants a right of way, as noted above. Effectiveness: By allowing public access to the routes that are redirected around the project perimeter, the current level of public access to recreational areas would be maintained.	No Verification: see Effectiveness		X	X	N/A	N/A				
Soil & Water	S&W-1	Prior to site mobilization, the project owner shall obtain both BLM's Authorized Officer and the CPM's approval for a site specific DESCP that ensures protection of water quality and soil resources of the project site and all linear facilities for both the construction and operation phases of the project. This plan shall address appropriate methods and actions, both temporary and permanent, for the protection of water quality and soil resources, demonstrate no increase in off-site flooding potential, and identify all monitoring and maintenance activities. The project owner shall complete all engineering plans, reports, and documents necessary for both LM's Authorized Officer and the CPM to conduct a review of the proposed project and provide a written evaluation as to whether the proposed grading, drainage improvements, and flood management activities comply with all requirements presented herein. The plan shall be consistent with the grading and drainage plan as required by Condition of Certification CIVIL-1 and shall contain the following elements: Vicinity Map: A map shall be provided indicating the location of all project elements with depictions of all major geographic features to include watercourses, washes, irrigation and canals, major utilities, roads, and drainage facilities. Adjacent property owners shall be identified on the plan maps. All maps shall be presented at a legible scale. Site Delineation: The site and all project elements shall be delineated showing boundary lines of all construction areas and the location of all existing and proposed structures, underground utilities, roads, and drainage facilities. Adjacent property owners shall be identified on the plan maps. All maps shall be presented at a legible scale. Drainage: The DESCP shall include the following elements: a. Topography. Topography for offsite areas are required to define the existing upstream tributary areas to the site and downstream to provide enough definition to map the existing storm water flow and flood hazard. Spot elevations shall be required where relatively flat conditions exist. b. Proposed Grade. Proposed grade contours shall be shown at a scale appropriate for delineation of onsite ephemeral washes, drainage ditches, and tie-ins to the existing topography. c. Hydrology. Existing and proposed hydrologic calculations for onsite areas and offsite areas that drain to the site; include maps showing the drainage area boundaries and sizes in acres, topography and typical overland flow directions, and show all existing, interim, and proposed drainage infrastructure and their intended direction of flow. d. Hydraulics. Provide hydraulic calculations to support the selection and sizing of the onsite drainage network, diversion facilities and BMPs. Watercourses and Critical Areas: The DESCP shall show the location of all onsite and nearby watercourses including washes, irrigation and drainage canals, and drainage ditches, and shall indicate the proximity of those features to the construction site. Maps shall identify high hazard flood prone areas.	The DESCP shall be consistent with the grading and drainage plan as required by Condition of Certification CIVIL-1, and relevant portions of the DESCP shall be submitted to the chief building official (CBO) for review and approval. In addition, the project owner shall do all of the following: a. No later than ninety (90) days prior to start of site mobilization, the project owner shall submit a copy of the DESCP to the County of San Bernardino and the RWQCB for review and comment. Both BLM's Authorized Officer and the CPM shall consider comments received from San Bernardino County and RWQCB and approve the DESCP. b. During construction, the project owner shall provide an analysis in the monthly compliance report on the effectiveness of the drainage-, erosion- and sedimentcontrol measures and the results of monitoring and maintenance activities. c. Once operational, the project owner shall provide in the annual compliance report information on the results of storm water BMP monitoring and maintenance activities. d. Provide BLM's Authorized Officer and the CPM with two (2) copies each of all monitoring or compliance reports.		X	X	X	7/1/2010	Approved	6/18/2010	10/4/2010	
Soil & Water	S&W-1 (continued)	Site Delineation: The site and all project elements shall be delineated showing boundary lines of all construction areas and the location of all existing and proposed structures, underground utilities, roads, and drainage facilities. Adjacent property owners shall be identified on the plan maps. All maps shall be presented at a legible scale. Drainage: The DESCP shall include the following elements: a. Topography. Topography for offsite areas are required to define the existing upstream tributary areas to the site and downstream to provide enough definition to map the existing storm water flow and flood hazard. Spot elevations shall be required where relatively flat conditions exist. b. Proposed Grade. Proposed grade contours shall be shown at a scale appropriate for delineation of onsite ephemeral washes, drainage ditches, and tie-ins to the existing topography. c. Hydrology. Existing and proposed hydrologic calculations for onsite areas and offsite areas that drain to the site; include maps showing the drainage area boundaries and sizes in acres, topography and typical overland flow directions, and show all existing, interim, and proposed drainage infrastructure and their intended direction of flow. d. Hydraulics. Provide hydraulic calculations to support the selection and sizing of the onsite drainage network, diversion facilities and BMPs. Watercourses and Critical Areas: The DESCP shall show the location of all onsite and nearby watercourses including washes, irrigation and drainage canals, and drainage ditches, and shall indicate the proximity of those features to the construction site. Maps shall identify high hazard flood prone areas.	The DESCP shall be consistent with the grading and drainage plan as required by Condition of Certification CIVIL-1, and relevant portions of the DESCP shall be submitted to the chief building official (CBO) for review and approval. In addition, the project owner shall do all of the following: a. No later than ninety (90) days prior to start of site mobilization, the project owner shall submit a copy of the DESCP to the County of San Bernardino and the RWQCB for review and comment. Both BLM's Authorized Officer and the CPM shall consider comments received from San Bernardino County and RWQCB and approve the DESCP. b. During construction, the project owner shall provide an analysis in the monthly compliance report on the effectiveness of the drainage-, erosion- and sedimentcontrol measures and the results of monitoring and maintenance activities. c. Once operational, the project owner shall provide in the annual compliance report information on the results of storm water BMP monitoring and maintenance activities. d. Provide BLM's Authorized Officer and the CPM with two (2) copies each of all monitoring or compliance reports.		X	X	X	7/1/2010	Approved	6/18/2010	10/4/2010	
Soil & Water (Continued)	S&W-1 (continued)	Clearing and Grading: The plan shall provide a delineation of all areas to be cleared of vegetation, areas to be preserved and areas where vegetation would be cut to allow clear movement of the heliostats. The plan shall provide elevations, slopes, locations, and extent of all proposed grading as shown by contours, cross-sections, cut/fill depths or other means. The locations of any disposal areas, fills, or other special features shall also be shown. Existing and proposed topography tying in proposed contours with existing topography shall be illustrated. The DESCP shall include a statement of the quantities of material excavated at the site, whether such excavations or fill is temporary or permanent, and the amount of such material to be imported or exported or a statement explaining that there would be no clearing and/or grading conducted for each element of the project. Areas of no disturbance shall be properly identified and delineated on the plan maps. Soil Wind and Water Erosion Control: The plan shall address exposed soil treatments to be used during construction and operation of the proposed project for both road and non-road surfaces including specifically identifying all chemical based dust palliatives, soil bonding, and weighting agents appropriate for use at the proposed project site that would not cause adverse effects to vegetation; BMPs shall include measures designed to prevent wind and water erosion including application of chemical dust palliatives after rough grading to limit water use. All dust palliatives, soil binders, and weighting agents shall be approved by both BLM's Authorized Officer and the CPM prior to use. Project Schedule: The DESCP shall identify on the topographic site map the location of the site-specific BMPs to be employed during each phase of construction (initial grading, project element construction, and final grading/stabilization). BMP implementation schedules shall be provided for each project element for each phase of construction.	The DESCP shall be consistent with the grading and drainage plan as required by Condition of Certification CIVIL-1, and relevant portions of the DESCP shall be submitted to the chief building official (CBO) for review and approval. In addition, the project owner shall do all of the following: a. No later than ninety (90) days prior to start of site mobilization, the project owner shall submit a copy of the DESCP to the County of San Bernardino and the RWQCB for review and comment. Both BLM's Authorized Officer and the CPM shall consider comments received from San Bernardino County and RWQCB and approve the DESCP. b. During construction, the project owner shall provide an analysis in the monthly compliance report on the effectiveness of the drainage-, erosion- and sedimentcontrol measures and the results of monitoring and maintenance activities. c. Once operational, the project owner shall provide in the annual compliance report information on the results of storm water BMP monitoring and maintenance activities. d. Provide BLM's Authorized Officer and the CPM with two (2) copies each of all monitoring or compliance reports.		X	X	X	7/1/2010	Approved	6/18/2010	10/4/2010	
Soil & Water	S&W-1 (continued)	Best Management Practices: The DESCP shall show the location, timing, and maintenance schedule of all erosion- and sediment-control BMPs to be used prior to initial grading, during project element excavation and construction, during final grading/stabilization, and after construction. BMPs shall include measures designed to control dust and stabilize construction access roads and entrances. The maintenance schedule shall include post-construction maintenance of treatment-control BMPs applied to disturbed areas following construction. Erosion Control Drawings: The erosion-control drawings and narrative shall be designed, stamped and sealed by a professional engineer or erosion control specialist. Agency Comments: The DESCP shall include copies of recommendations from the County of San Bernardino, California Department of Fish and Game (CDFG), and Lahontan Regional Water Quality Control Board (RWQCB). Monitoring Plan: Monitoring activities shall include routine measurement of the volume of accumulated sediment in the onsite drainage ditches, and storm water diversions and the requirements specified in Appendix B, C, and D.	The DESCP shall be consistent with the grading and drainage plan as required by Condition of Certification CIVIL-1, and relevant portions of the DESCP shall be submitted to the chief building official (CBO) for review and approval. In addition, the project owner shall do all of the following: a. No later than ninety (90) days prior to start of site mobilization, the project owner shall submit a copy of the DESCP to the County of San Bernardino and the RWQCB for review and comment. Both BLM's Authorized Officer and the CPM shall consider comments received from San Bernardino County and RWQCB and approve the DESCP. b. During construction, the project owner shall provide an analysis in the monthly compliance report on the effectiveness of the drainage-, erosion- and sedimentcontrol measures and the results of monitoring and maintenance activities. c. Once operational, the project owner shall provide in the annual compliance report information on the results of storm water BMP monitoring and maintenance activities. d. Provide BLM's Authorized Officer and the CPM with two (2) copies each of all monitoring or compliance reports.		X	X	X	7/1/2010	Approved	6/18/2010	10/4/2010	

Soil & Water	S&W-2	The project owner shall comply with the requirements specified in Appendix B, C, and D for dredge and fill, wastewater, and storm water discharges associated with construction and industrial activity. These requirements relate to discharges, or potential discharges, of waste that could affect the quality of waters of the state, and were developed in consultation with staff of the State Water Resources Control Board and/or the applicable California Regional Water Quality Control Board (hereafter "Water Boards"). It is the Commission's intent that these requirements be enforceable by both the Commission and the Water Boards. In furtherance of that objective, the Commission hereby delegates the enforcement of these requirements, and associated monitoring, inspection and annual fee collection authority, to the Water Boards. Accordingly, the Commission and the Water Board shall confer with each other and coordinate, as needed, in the enforcement of the requirements. The project owner shall pay the annual waste discharge permit fee associated with this facility to the Water Boards. In addition, the Water Boards may "prescribe" these requirements as waste discharge requirements pursuant to Water Code Section 13263 solely for the purposes of enforcement, monitoring, inspection, and the assessment of annual fees, consistent with Public Resources Code Section 25531, subdivision (c). The project owner shall develop, obtain both BLM's Authorized Officer and CPM approval of, and implement a construction Storm Water Pollution Prevention Plan (SWPPP) for the construction of the project and an Industrial SWPPP for operation of the project.	At least sixty (60) days prior to construction, the project owner shall submit to both BLM's Authorized Officer and the CPM a copy of the construction SWPPP for construction of the project for review and approval. At least sixty (60) days prior to commercial operation, the project owner shall submit to both BLM's Authorized Officer and the CPM a copy of the Industrial SWPPP for operation of the project for review and approval prior to commercial operation. The project owner shall retain a copy on site. The project owner shall submit copies to both BLM's Authorized Officer and the CPM of all correspondence between the project owner and the Lahontan RVQCB regarding the WDRs for discharge of storm water associated with construction and industrial activity within ten (10) days of its receipt or submittal.	X	X		7/19/2010	Approved	7/16/2010	9/30/2010	
Soil & Water	S&W-3	Pre-Well Installation. The project owner shall construct and operate up to two onsite groundwater wells that produce water from the IVGB. The project owner shall ensure that the wells are completed in accordance with all applicable state and local water well construction permits and requirements, including the San Bernardino County's Desert Groundwater Management Ordinance. Prior to initiation of well construction activities, the project owner shall submit for review and comment a well construction packet to the County of San Bernardino, in accordance with the County of San Bernardino Code Title 2, Division 3, Chapter 6, Article 5, containing the documentation, plans, and fees normally required for the county's well permit, with copies to both BLM's Authorized Officer and the CPM. The project shall not construct a well or extract and use groundwater until both BLM's Authorized Officer and the CPM provides approval to construct and operate the well. Post-Well Installation. The project owner shall provide documentation to both BLM's Authorized Officer and the CPM that the well has been properly completed. In accordance with California's Water Code section 13754, the driller of the well shall submit to the DWR a Well Completion Report for each well installed.	The project owner shall ensure the Well Completion Reports are submitted and shall ensure compliance with all county water well standards and requirements for the life of the wells. The project owner shall do all of the following: 1. No later than 180 days prior to the construction of the onsite groundwater wells, the project owner shall submit a Groundwater Monitoring and Management Plan to the County of San Bernardino for review and comment (see Condition of Certification Soil & Water - 6) 2. No later than sixty (60) days prior to the construction of the onsite groundwater wells, the project owner shall submit to both BLM's Authorized Officer and the CPM a copy of the water well construction packet submitted to the County of San Bernardino for review and comment. 3. No later than thirty (30) days prior to the construction of the onsite water supply wells, the project owner shall submit a copy of any written comments received from the County of San Bernardino indicating whether the proposed well construction activities comply with all county well requirements and meet the requirements established by the county's water well permit program. 4. No later than sixty (60) days after installation of each well at the project site, the project owner shall provide to both BLM's Authorized Officer and the CPM copies of the Well Completion Reports submitted to the DWR by the well driller. The project owner shall submit to the CPM with the Well Completion Report a copy of well drilling logs, water quality analyses, and any inspection reports. 5. During well construction and for the operational life of the well, the project owner shall submit two (2) copies each to BLM's Authorized Officer and the CPM for review and approval any proposed well construction or operation changes. 6. The project owner shall provide BLM's authorized officer and the CPM with (2) two copies each of all monitoring and other reports required for compliance with the County of San Bernardino water well standards and operation requirements. 7. No later than fifteen (15) days after completion of the onsite water supply wells, the project owner shall submit documentation to BLM's Authorized Officer and the CPM, confirming that well drilling activities were conducted in compliance with Title 23, California Code of Regulations, Chapter 15, Discharges of Hazardous Wastes to Land, (23 CCR, sections 2510 et seq.) requirements and that any onsite drilling sumps used for project drilling activities were removed in compliance with 23 CCR section 2511(c).		X		9/23/2010	Approved	11/1/2010	11/5/2010	
Soil & Water	S&W-4	The proposed project's use of groundwater during each year of construction shall not exceed an average of 200 acre-feet per year over the forty-three (43) month construction period. Groundwater use for operations activities shall not exceed 100 acre-feet per year. Prior to the use of groundwater for construction, the project owner shall install and maintain metering devices as part of the water supply and distribution system to document project water use and to monitor and record in gallons per day the total volume(s) of water supplied to the project from this water source. The metering devices shall be operational for the life of the project.	Beginning six (6) months after the start of construction, the project owner shall prepare a semi-annual summary of amount of water used for construction purposes. The summary shall include the monthly range and monthly average of daily water usage in gallons per day. At least sixty (60) days prior to the start of construction of the proposed project, the project owner shall submit to both BLM's Authorized Officer and the CPM a copy of evidence that metering devices have been installed and are operational. The project owner shall prepare an annual summary, which will include daily usage, monthly range and monthly average of daily water usage in gallons per day, and total water used on a monthly and annual basis in acre-feet. For years subsequent to the initial year of operation, the annual summary will also include the yearly range and yearly average water use by source. For calculating the total water use, the term "year" will correspond to the date established for the annual compliance report submittal.		X		2011	Not yet started			
Soil & Water	S&W-5	The project owner shall ensure that the heliostats are designed and installed to withstand storm water scour as a result of 100-year storm event. The analysis of the storm event and resulting heliostat stability will be provided within a Pylon Insertion Depth and Heliostat Stability Report to be completed by the applicant. This analysis will incorporate results from site-specific geotechnical stability testing, as well as hydrologic and hydraulic stormwater modeling performed by the applicant. The modeling will be completed using methodology and assumptions approved by the CPM and BLM's Authorized Officer.	The basis for determination of pylon embedment depths shall employ a step-by-step D150 as identified below and approved by both the BLM's Authorized Officer and the CPM: A. Determination of peak storm water flow within each sub-watershed from a 100-year event: • Use of San Bernardino County (SBC) Hydrology Manual to specify hydrologic parameters to use in calculations; and • HEC-1 and Flo-2D models will be developed to calculate storm flows from the mountain watersheds upstream of the project site, and flood flows at the project site, based upon hydrologic parameters from SBC. B. Determination of potential total pylon scour depth: • Potential channel erosion depths will be determined using the calculated design flows, as determined in A above, combined with the methodology presented in "FAN, An Alluvial Fan Flooding Computer Program, FEMA, 1990." • Potential local scour will be determined using the calculated design flows, as determined in A above, combined with the Federal Highway Administration (FHWA) equation for local bridge pier scour from the FHWA 2001 report, "Evaluating Scour at Bridges." C. The results of the scour depth calculations and pylon stability testing will be used to determine the minimum necessary pylon embedment depth within the active portions of the alluvial fans. In the inactive portions of the alluvial fans that are not subject to channel erosion and local scour, the minimum pylon embedment depths will be based on the results of the pylon stability testing. Active versus inactive areas of the alluvial fans will be determined from the USGS 2006 Open-File Report "Preliminary Surficial Geologic Map of the Mesquite Lake 30' x 60' Quadrangle, California and Nevada" authored by Schmidt and McMackin and field observations. D. The results of the calculated peak storm water flows and channel erosion and heliostat scour analysis together with the recommended heliostat installation depths shall be submitted to the BLM's authorized officer and CPM for review and approval sixty (60) days before the start of heliostat installation.		X		9/24/2010	Approved	9/24/2010	10/7/2010	

Soil & Water	S&W-5 (Continued)		<p>The Storm Water Damage Monitoring and Response Plan shall be submitted to both the BLM's authorized office and CPM for review and approval and shall include the following:</p> <ul style="list-style-type: none"> • Detailed maps showing the installed location of all heliostats within each project phase; • Description of the method of removing all soil spoils should any be generated; • Each heliostat should be identified by a unique ID number marked to show initial ground surface at its base, and the depth of the pylon below ground; • Minimum Depth Stability Threshold to be maintained of pylons to meet long-term stability for applicable wind water and debris loading effects; • Above and below ground construction details of a typical installed heliostat; • BMPs to be employed to minimize the potential impact of broken mirrors to soil resources; • Methods and response time of mirror cleanup and measures that may be used to mitigate further impact to soil resources from broken mirror fragments; and • Monitoring, documenting, and restoring the Ivanpah playa surface when impacted by sedimentation or broken mirror shards. <p>A plan to monitor and inspect periodically, before first seasonal and after every storm event:</p> <ul style="list-style-type: none"> • Security and Tortoise Exclusion Fence: Inspect for damage and buildup of sediment or debris • Heliostats within Drainages or subject to drainage overflow: Inspect for tilting, mirror damage, depth of scour compared to pylon depth below ground and the Minimum Depth Stability Threshold, collapse, and downstream transport. • Drainage Channels: Inspect for substantial migration or changes in depth, and transport of broken glass. • Constructed Diversion Channels: Inspect for scour and structural integrity issues caused by erosion, and for sediment and debris buildup. • Ivanpah Playa Surface: Inspect for changes in the surface texture and quality from sediment buildup, erosion, or broken glass. <p>Short-Term Incident-Based Response:</p> <ul style="list-style-type: none"> • Security and Tortoise Exclusion Fence: repair damage, and remove built-up of sediment and debris. • Heliostats: Remove broken glass, damaged structure, and wiring from the ground, and for pylons no longer meeting the Minimum Depth Stability Threshold, either replace/reinforce or remove the mirrors to avoid exposure for broken glass. 	X		2013	Not yet started				
Soil & Water	S&W-5 (Continued)		<ul style="list-style-type: none"> • Drainage Channels: no short-term response necessary unless changes indicate risk to facility structures. • Constructed Diversion Channels: repair damage, maintain erosion control measures and remove built-up sediment and debris. <p>Long-Term Design-Based Response:</p> <ul style="list-style-type: none"> • Propose operation/BMP modifications to address ongoing issues. Include proposed changes to monitoring and response procedures, frequency, or standards. • Replace/reinforce pylons no longer meeting the Minimum Depth Stability Threshold or remove the mirrors to avoid exposure for broken glass. • Propose design modifications to address ongoing issues. This may include construction of active storm water management diversion channels and/or detention ponds. <ul style="list-style-type: none"> • Inspection, short-term incident response, and long-term design-based response may include activities both inside and outside of the approved right-of-way. For activities outside of the approved right-of-way, the applicant will notify BLM and acquire environmental review and approval before field activities begin. At least sixty (60) days prior to construction, the project owner shall submit to both BLM's Authorized Officer and the CPM a copy of the Pylon Insertion Depth and Heliostat Stability Report for review and approval prior to construction. At least sixty (60) days prior to commercial operation, the project owner shall submit to both BLM's Authorized Officer and the CPM a copy of the Storm Water Damage Monitoring and Response Plan for review and approval prior to commercial operation. The project owner shall retain a copy of this plan onsite at the power plant at all times. The project owner shall prepare an annual summary of the number of heliostats failed, cause of the failure, and cleanup and mitigation performed for each failed heliostat. 	X		2013	Not yet started				
Soil & Water	S&W-6	<p>The project owner shall submit a Groundwater Level Monitoring and Reporting Plan to both BLM's Authorized Officer and the CPM for review and approval and to San Bernardino County for review and comment regarding consistency with the County of San Bernardino Code Title 2, Division 3, Chapter 6, Article 5 (Desert Groundwater Management Ordinance). The Groundwater Level Monitoring and Reporting Plan shall provide a description of the methodology for monitoring background and site groundwater levels. Monitoring shall include pre-construction, construction, and project operation water use. The primary objective for the monitoring is to establish pre-construction and project related groundwater level that can be quantitatively compared against observed and simulated levels near the project pumping well and near potentially impacted existing wells.</p> <p>Prior to project construction, monitoring shall commence to establish pre-construction base-line conditions and shall incorporate the existing monitoring and reporting data collected for the Primm Valley Golf Club. The monitoring network shall be designed to incorporate the ongoing monitoring and reporting program established for the Primm Valley Golf Course. The monitoring plan and network may make use of existing wells in the basin that would satisfy the requirements for the monitoring program.</p>	<p>The project owner shall complete the following:</p> <ol style="list-style-type: none"> 1. At least three (3) months prior to construction, a Groundwater Level Monitoring and Reporting Plan shall be submitted to the County of San Bernardino for review and comment before completion of Condition of Certification Soil & Water -3, and a copy of the County's comments and the plan shall be submitted to both BLM's Authorized Officer and the CPM for review and approval. The plan shall include a scaled map showing the site and vicinity, existing well locations, and proposed monitoring locations (both existing wells and new monitoring wells proposed for construction). The map shall also include relevant natural and manmade features (existing and proposed as part of this project). The plan also shall provide: (1) well construction information and borehole lithology for each existing well proposed for use as a monitoring well; (2) description of proposed drilling and well installation methods; (3) proposed monitoring well design; and, (4) schedule for completion of the work. 2. At least two (2) months prior to construction, a Well Monitoring Installation and Groundwater Level Network Report shall be submitted to both BLM's Authorized Officer and the CPM. The report shall include a scaled map showing the final monitoring well network. It shall document the drilling methods employed, provide individual well construction as-buils, borehole lithology recorded from the drill cuttings, well development, an well survey results. The well survey shall measure the location and elevation of the top of the well casing and reference point for all water level measurements, and shall include the coordinate system and datum for the survey measurements. Additionally, the report shall describe the water level monitoring equipment employed in the wells and document their deployment and use. 3. As part of the monitoring well network development, all newly constructed monitoring wells shall be permitted and constructed consistent with San Bernardino County and State specifications. 4. At least two (2) months prior to project construction, all water level monitoring data shall be provided to both BLM's Authorized Officer and the CPM. The data transmittal shall include an assessment of pre-project water level trends, a summary of available climatic information (monthly average temperature and rainfall records from the nearest weather station), and a comparison and assessment of water level data relative to the assumptions and spatial levels simulated by the applicant's groundwater model. 5. After project construction and during project operations, the project owner shall submit the monitoring data annually to both BLM's Authorized Office and the CPM. The summary shall document water level monitoring methods, the water level data, water level plots, and a comparison between pre- and post-project start-up water level trends. The report shall also include a summary of actual water use conditions, monthly climatic information (temperature and rainfall), and a comparison and assessment of water level data relative to the assumptions and spatial levels simulated by the applicant's groundwater model. 	X	X	X	8/18/2010	Approved	7/16/2010	11/5/2010	

Soil & Water	S&W-7	The project owner shall recycle and reuse all process wastewater streams to the extent practicable. Prior to transport and disposal of any facility operation wastewaters that are not suitable for treatment and reuse onsite, the project owner shall test and classify the stored wastewater to determine proper management and disposal requirements. The project manager shall ensure that the wastewater is transported and disposed of in accordance with the wastewater's characteristics and classification and all applicable LORS (including any CCR Title 22 Hazardous Waste and Title 23 Waste Discharges to Land requirements).	Prior to transport and disposal of any facility operation wastewaters that are not suitable for treatment and reuse onsite, the project owner shall test and classify the stored wastewater to determine proper management and disposal requirements. The project manager shall ensure that the wastewater is transported and disposed of in accordance with the wastewater's characteristics and classification and all applicable LORS (including any CCR Title 22 Hazardous Waste and Title 23 Waste Discharges to Land requirements).	X		TBD	As needed				
Soil & Water	S&W-8	Prior to the start of construction of the sanitary waste system, the project owner shall submit to the County of San Bernardino for review and comment, and to both the BLM's authorized officer and CPM for review and approval, plans for the construction and operation of the project's proposed sanitary waste septic system and leach field. These plans shall comply with the requirements set forth in County of San Bernardino codes and Appendices B, C, and D. Project construction shall not proceed until both BLM's Authorized Officer and the CPM have approved the plans. The project owner shall remain in compliance with the San Bernardino County code requirements for the life of the project.	Sixty (60) days prior to the start of commercial operations, the project owner shall submit to the County of San Bernardino appropriate fees and plans for review and comment for the construction and operation of the project's sanitary waste septic system and leach field. A copy of these plans shall be submitted to both the BLM's authorized officer and CPM for review and approval. The plans shall demonstrate compliance with the sanitary waste disposal facility requirements of County of San Bernardino and Appendices B, C, and D.	X		2013	Not yet started				
Sociology	SOCIO-1	The project owner shall pay a statutory school development fee of at least \$3,195 to the Baker Valley Unified School District as required by Education Code Section 17620. Socioeconomics 10	At least 30 days prior to start of project construction, the project owner shall provide the Compliance Project Manager (CPM) proof of payment of the statutory school development fee.	X		10/1/2010	Approved	10/5/2010	10/7/2010		
Facility Design	STRUCT-1	Prior to the start of any increment of construction of any major structure or component listed in Facility Design Table 2 of Condition of Certification GEN-2, above, the project owner shall submit to the CBO for design review and approval the proposed lateral force procedures for project structures and the applicable designs, plans, and drawings for project structures. Proposed lateral force procedures, designs, plans, and drawings shall be those for the following items (from Table 2, above): 1. Major project structures; 2. Major foundations, equipment supports, and anchorage; and 3. Large field-fabricated tanks. Construction of any structure or component shall not begin until the CBO has approved the lateral force procedures to be employed in designing that structure or component. The project owner shall: 1. Obtain approval from the CBO of lateral force procedures proposed for project structures; 2. Obtain approval from the CBO for the final design plans, specifications, calculations, soils reports, and applicable quality control procedures. If there are conflicting requirements, the more stringent shall govern (for example, highest loads, or lowest allowable stresses shall govern). All plans, calculations, and specifications for foundations that support structures shall be filed concurrently with the structure plans, calculations, and specifications (2007 CBC, Appendix Chapter 1, section 109.6, Approval Required); 3. Submit to the CBO the required number of copies of the structural plans, specifications, calculations, and other required documents of the designated major structures prior to the start of on-site fabrication and installation of each structure, equipment support, or foundation (2007 California Administrative Code, section 4-210, Plans, Specifications, Computations and Other Data); 4. Ensure that the final plans, calculations, and specifications clearly reflect the inclusion of approved criteria, assumptions, and methods used to develop the design. The final designs, plans, calculations, and specifications shall be signed and stamped by the responsible design engineer (2007 CBC, Appendix Chapter 1, section 106.3.4, Design Professional in Responsible Charge); and 5. Submit to the CBO the responsible design engineer's signed statement that the final design plans conform to applicable LORS (2007 CBC, Appendix Chapter 1, section 106.3.4, Design Professional in Responsible Charge).	At least 60 days (or within a project owner- and CBO-approved alternative time frame) prior to the start of any increment of construction of any structure or component listed in Facility Design Table 2 of Condition of Certification GEN-2, above, the project owner shall submit to the CBO the above final design plans, specifications, and calculations, with a copy of the transmittal letter to BLM's Authorized Officer and the CPM. The project owner shall submit to BLM's Authorized Officer and the CPM, in the next monthly compliance report, a copy of a statement from the CBO that the proposed structural plans, specifications, and calculations have been approved and comply with the requirements set forth in applicable engineering LORS	X		8/20/2010	Approved	8/20/2010	9/2/2010		
Facility Design	STRUCT-2	The project owner shall submit to the CBO the required number of sets of the following documents related to work that has undergone CBO design review and approval: 1. Concrete cylinder strength test reports (including date of testing, date sample taken, design concrete strength, tested cylinder strength, age of test, type and size of sample, location and quantity of concrete placement from which sample was taken, and mix design designation and parameters); 2. Concrete pour sign-off sheets; 3. Bolt torque inspection reports (including location of test, date, bolt size, and recorded torques); 4. Field weld inspection reports (including type of weld, location of weld, inspection of non-destructive testing [NDT] procedure and results, welder qualifications, certifications, qualified procedure description or number [ref: AWS]); and 5. Reports covering other structural activities requiring special inspections shall be in accordance with the 2007 CBC, Chapter 17, section 1704, Special Inspections, and Section 1709.1, Structural Observations.	If a discrepancy is discovered in any of the above data, the project owner shall, within 5 days, prepare and submit an NCR describing the nature of the discrepancies and the proposed corrective action to the CBO, with a copy of the transmittal letter to BLM's Authorized Officer and the CPM (2007 CBC, Chapter 17, section 1704.1.2, Report Requirements). The NCR shall reference the condition(s) of certification and the applicable CBC chapter and section. Within 5 days of resolution of the NCR, the project owner shall submit a copy of the corrective action to the CBO and the CPM. The project owner shall transmit a copy of the CBO's approval or disapproval of the corrective action to BLM's Authorized Officer and the CPM within 15 days. If disapproved, the project owner shall advise BLM's Authorized Officer and the CPM, within 5 days, the reason for disapproval, and the revised corrective action to obtain CBO's approval.	X		As needed	As needed				
Facility Design	STRUCT-3	The project owner shall submit to the CBO design changes to the final plans required by the 2007 CBC, including the revised drawings, specifications, calculations, and a complete description of, and supporting rationale for, the proposed changes and shall give to the CBO prior notice of the intended filing (2007 CBC, Appendix Chapter 1, section 106.1, Submittal Documents; section 106.4, Amended Construction Documents; 2007 California Administrative Code, section 4-215, Changes in Approved Drawings and Specifications).	On a schedule suitable to the CBO, the project owner shall notify the CBO of the intended filing of design changes and shall submit the required number of sets of revised drawings and the required number of copies of the other abovementioned documents to the CBO, with a copy of the transmittal letter to BLM's Authorized Officer and the CPM. The project owner shall notify BLM's Authorized Officer and the CPM, via the monthly compliance report, when the CBO has approved the revised plans.	X		As needed	As needed				
Facility Design	STRUCT-4	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts specified in the 2007 CBC, Chapter 3, Table 307.1(2), shall, at a minimum, be designed to comply with the requirements of that chapter.	At least 30 days (or within a project owner- and CBO-approved alternate time frame) prior to the start of installation of the tanks or vessels containing the above-specified quantities of toxic or hazardous materials, the project owner shall submit to the CBO for design review and approval final design plans, specifications, and calculations, including a copy of the signed and stamped engineer's certification. The project owner shall send copies of the CBO approvals of plan checks to BLM's Authorized Officer and the CPM in the following monthly compliance report. The project owner shall also transmit a copy of the CBO's inspection approvals to BLM's Authorized Officer and the CPM in the monthly compliance report following completion of any inspection.	X		TBD	Not yet started				

Traffic & Transport.	TRANS-1	<p>Prior to start of construction of the ISEGS, the project owner shall prepare and implement a Traffic Control Plan (TCP) for ISEGS construction and operation traffic. The TCP shall address the movement of workers, vehicles, and materials, including arrival and departure schedules, and designated workforce and delivery routes.</p> <p>The project owner shall consult with the County of San Bernardino and the Caltrans District 8 office in the preparation and implementation of the Traffic Control Plan and shall submit the proposed Traffic Control Plan to the County of San Bernardino and the Caltrans District 8 office in sufficient time for review and comment and to BLM's Authorized Officer and the Energy Commission Compliance Project Manager (CPM) for review and approval prior to the proposed start of construction and implementation of the plan. BLM's Authorized Officer and the CPM shall review and approve the TCP or identify any material deficiencies within thirty (30) days of receipt. The project owner shall provide a copy of any written comments from the County of San Bernardino and the Caltrans District 8 office and any changes to the Traffic Control Plan to BLM's Authorized Officer and the CPM prior to the proposed start of construction.</p>	<p>At least 90 calendar days prior to the start of construction, including any grading or site remediation on the power plant site or its associated easements, the project owner shall submit the proposed traffic control plan to the County of San Bernardino and the Caltrans District 8 office for review and comment and to BLM's Authorized Officer and the CPM for review and approval. The project owner shall also provide BLM's Authorized Officer and the CPM with a copy of the transmittal letter to the County of San Bernardino and the Caltrans District 8 office requesting review and comment.</p> <p>At least 30 calendar days prior to the start of construction, the project owner shall provide copies of any comment letters received from either the County of San Bernardino and the Caltrans District 8 office, along with any changes to the proposed traffic control plan to BLM's Authorized Officer and the CPM for review and approval.</p> <p>The Traffic Control Plan shall include:</p> <ul style="list-style-type: none"> • providing an incentive program to encourage construction workers to use van or bus service; • limiting truck deliveries to the project site on Fridays to mornings only so they occur before 12:00 noon ; • redirection of construction traffic with a flag person as necessary to ensure traffic safety and minimize interruptions to non-construction related traffic flow; • signage, lighting, and traffic control device placement at the project construction site and laydown areas; • signage along eastbound and westbound Yates Well Road and at the entrance of each of the I-15 northbound and southbound off-ramps at Yates Well Road notifying drivers of construction traffic throughout the duration of the construction period; • signage and detours to redirect traffic from Colosseum Road during construction activities related to roadway realignment and pipeline installation in and across the Colosseum Road right of way; • a Heavy Haul Plan addressing the transport and delivery of heavy and oversized loads requiring permits from Caltrans or other state and federal agencies; • a work schedule and end-of-shift departure plan will be implemented to limit Friday departures from the site traveling north to Las Vegas to 12 or fewer vehicles every three minutes between 12:00 noon and 10:00 PM 	X			6/16/2010	Approved	6/18/2010	10/7/2010	
Traffic & Transport.	TRANS-2	<p>The project owner shall restore all public roads, easements, and rights-of-way that have been damaged due to project-related construction activities to original or near-original condition in a timely manner, as directed by the BLM's Authorized Officer and CPM. The project owner's use of Yates Well Road shall not diminish the rights or use of the road by other BLM authorized users. Repairs and restoration of access roads may be required at any time during the construction phase of the project to assure safe ingress and egress.</p> <p>Prior to the start of site mobilization, the project owner shall consult with the County of San Bernardino and Caltrans District 8 and notify them of the proposed schedule for project construction. The purpose of this notification is to request that the County of San Bernardino and Caltrans consider postponement of public right-of-way repair or improvement activities in areas affected by project construction until construction is completed and to coordinate with the project owner regarding any concurrent construction related activities that are planned or in progress and cannot be postponed.</p>	<p>At least 30 days prior to the start of mobilization, the project owner shall photograph or videotape all affected public roads, easements, and right-of-way segment(s) and/or intersections and shall provide BLM's Authorized Officer, the CPM, the affected local jurisdiction(s) and Caltrans (if applicable) with a copy of these images. The project owner shall rebuild, repair and maintain all public roads, easements, rights-of-way in a usable condition throughout the construction phase of the project.</p> <p>Prior to the start of site mobilization, the project owner shall consult with the County of San Bernardino and Caltrans District 8 and notify them of the proposed schedule for project construction. The purpose of this notification is to request that the County of San Bernardino and Caltrans consider postponement of public right-of-way repair or improvement activities in areas affected by project construction until construction is completed and to coordinate with the project owner regarding any concurrent construction-related activities that are planned or in progress and cannot be postponed.</p> <p>Within 60 calendar days after completion of construction, the project owner shall meet with BLM's Authorized Officer and the CPM, the County of San Bernardino and Caltrans District 8 to identify sections of public right-of-way to be repaired. At that time, the project owner shall establish a schedule to complete the repairs and to receive approval for the action(s). Following completion of any public right-of-way repairs, the project owner shall provide a letter signed by the County of San Bernardino and Caltrans District 8 stating their satisfaction with the repairs to BLM's Authorized Officer and the CPM.</p>	X			8/10/2010	Approved	6/24/2010	9/2/2010	
Traffic & Transport.	TRANS-3	<p>The project owner shall prepare a HelioStat Positioning Plan that would avoid potential for human health and safety hazards from solar radiation exposure.</p>	<p>Within 90 days before commercial operation of any of the three ISEGS power plants, the project owner shall submit the HelioStat Positioning Plan to BLM's Authorized Officer and the CPM for review and approval. The project owner shall also submit the plan to CalTrans, FAA, San Bernardino County, the San Bernardino Associated Governments (the transportation planning agency for San Bernardino County) and the Clark County Department of Aviation for review and comment and forward any comments received to BLM's Authorized Officer and the CPM. The HelioStat Positioning Plan shall accomplish the following:</p> <ol style="list-style-type: none"> 1. Identify the helioStat movements and positions (including reasonably possible malfunctions) that could result in potential exposure of observers at various locations including in aircraft, motorists, pedestrians and hikers in the Clark Mountains to reflected solar radiation from helioStats; 2. Describe within the HPP how programmed helioStat operation would avoid potential for human health and safety hazards at locations of observers as attributable to momentary solar radiation exposure greater than the Maximum Permissible Exposure of 10 kw/m² (for a period of 0.25 second or less). 3. Prepare a monitoring plan that would: a) obtain field measurements in response to legitimate complaints; b) verify that the HelioStat Positioning Plan would avoid potential for human health and safety hazards including temporary and permanent blindness at locations of observers; and c) provide requirements and procedures to document, investigate and resolve legitimate complaints regarding glare. 4. The monitoring plan should be coordinated with the FAA, U.S. Department of the Navy, CalTrans, CHP, and Clark County Department of Aviation in relation to the proposed Southern Nevada Supplemental Airport and be updated on an annual basis for the first 5 years, and at 2-year intervals thereafter for the life of the project. 	X			2013	Not yet started			

Traffic & Transport.	TRANS-4	The project owner shall prepare a Power Tower Luminance Monitoring Plan to provide procedures to conduct periodic monitoring and to document, investigate and resolve complaints regarding distraction effects to aviation, vehicular and pedestrian traffic associated with the power towers.	<p>Within 60 days prior to commercial operation of the first ISEGS power plant to become operational, the project owner shall provide a Power Tower Luminance Monitoring Plan applicable for the ISEGS Project for review and approval by BLM's Authorized Officer and the CPM. The plan shall specify procedures to document, investigate and resolve complaints regarding glare, and report these to BLM's Authorized Officer and the CPM within 10 days of receiving a complaint.</p> <p>The project owner shall evaluate the effects of the intensity of the luminance of light reflected from the power tower receivers for the following scenarios:</p> <p>A. Within 90 days following commercial operation;</p> <p>B. After the initial 5 years of operation;</p> <p>C. If a major design change is implemented that results in an increase of the reflective luminance of the power towers for each of the three ISEGS power plants (Ivanpah 1, 2 and 3); and</p> <p>D. After receiving a legitimate complaint regarding a distraction associated with the power towers.</p> <p>The Power Tower Luminance Monitoring Plan shall include provisions for the following:</p> <p>1. Coordination of luminance evaluations with the FAA, U.S. Department of the Navy, CalTrans, CHP, and with Clark County Department of Aviation in relation to the proposed Southern Nevada Supplemental Airport</p> <p>2. Reporting within 30 days after completing luminance measurements required under this plan; the project owner shall submit a summary report to FAA, U.S. Department of the Navy, CalTrans, San Bernardino County, SANBAG, CHP and Clark County Department of Aviation for review and comment, and to BLM's Authorized Officer and the CPM for review and approval.</p> <p>3. Measurement of luminance at the locations where any distraction effects have been reported and at the locations nearest the power towers from the four sides of the power plant boundaries, and the nearest public road, which may be substituted for one of the sides of the power tower of each of the three power plants during the time of day when values would be highest;</p> <p>4. Measurement of luminance using an illuminance meter, photometer, or similar device and reporting of data in photometric units; the measurements are intended to provide a relative and quantifiable measure of luminance that can be associated with any observed and reported distraction effect from the power tower receivers that may support anticipation and investigation of any future effects</p>	X			2013	Not yet started			
Traffic & Transport.	TRANS-4 (continued)		<p>5. Provisions for identifying and implementing appropriate mitigation measures if reported distraction is determined to be legitimate and if power tower luminance is determined to be causing a safety concern; The project owner shall consider and propose any reasonable mitigation measures that are technically and financially feasible. The mitigation measures may include surface treatment or material changes to increase absorption and reduce reflectivity of the power tower receivers, road signage, screening or other reasonable measures.</p> <p>6. Post-mitigation verification: Within 30 days following the implementation of mitigation measures designed to reduce reflectivity of the power towers, the project owner shall repeat the luminance measurements to demonstrate the effectiveness of mitigation measures and prepare a supplemental survey report for review and comment by FAA, U.S. Department of the Navy, CalTrans, San Bernardino County, SANBAG, CHP and Clark County Department of Aviation, and for review and approval by BLM's Authorized Officer and the CPM.</p>	X			2013	Not yet started			
Traffic & Transport.	TRANS-5	The project owner shall ensure that each power tower is marked and lighted according to the recommendations included in the FAA aeronautical study performed for each tower. Additionally, the project owner shall submit FAA Form 7460-2 Part II Notice of Actual Construction or Alteration, to the FAA within 5 days of completion of construction of the tower to its greatest height. The project owner shall provide evidence of compliance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting by submitting a copy of Form 7460-2 to BLM's Authorized Officer and the CPM for review and approval upon completion of construction or each power tower.	Within 5 days of completion of construction of each of the seven power towers, the project owner shall submit the above referenced evidence to BLM's Authorized Officer and the CPM for review and approval	X			2013	Not yet started			
Traffic & Transport.	TRANS-6	Prior to start-up and testing activities of the plant and all related facilities, the project owner shall coordinate with the FAA to notify all pilots using the airspace in the vicinity of the ISEGS of potential air hazards from turbulence.	At least 60 days prior to start of project operation, the project owner shall submit to BLM's Authorized Officer and the CPM for review a letter from the FAA showing compliance with these measures. The notification activities would include, but not be limited to (1) issuing a notice to airmen (NOTAM) of the identified air hazard, 2) updating all applicable FAA-approved airspace charts to indicate that plume hazards could exist up to an altitude of 1,350 feet above the ground surface, and 3) requesting FAA to require pilots to avoid direct overflight of the ISEGS site at or below this altitude during daylight hours.	X			2013	Not yet started			
Transmission System Engineering	TSE-1	The project owner shall furnish to BLM's Authorized Officer and the Compliance Project Manager (CPM) and to the Chief Building Official (CBO) a schedule of transmission facility design submittals, a Master Drawing List, a Master Specification List, and a Major Equipment and Structure List. The schedule shall contain a description and list of proposed submittal packages for design, calculations, and specifications for major structures and equipment. To facilitate audits by BLM and Energy Commission staff, the project owner shall provide designated packages to BLM's Authorized Officer and the CPM when requested	At least 60 days prior to the start of construction (or a lesser number of days mutually agreed to by the project owner and the CBO), the project owner shall submit the schedule, a Master Drawing List, and a Master Specifications List to the CBO, BLM's Authorized Officer and to the CPM. The schedule shall contain a description and list of proposed submittal packages for design, calculations, and specifications for major structures and equipment (see a list of major equipment in Table 1: Major Equipment List below). Additions and deletions shall be made to the table only with CPM, BLM's Authorized Officer and CBO approval. The project owner shall provide schedule updates in the Monthly Compliance Report.	X	X		8/13/2010	Approved	7/16/2010	9/2/2010	

Transmission System Engineering	TSE-2	<p>Prior to the start of construction, the project owner shall assign an electrical engineer and at least one of each of the following to the project:</p> <p>A) a civil engineer; B) a geotechnical engineer or a civil engineer experienced and knowledgeable in the practice of soils engineering; C) a design engineer who is either a structural engineer or a civil engineer fully competent and proficient in the design of power plant structures and equipment supports; or D) a mechanical engineer. (Business and Professions Code Sections 6704 et seq. require state registration to practice as civil engineer or structural engineer in California.</p> <p>The tasks performed by the civil, mechanical, electrical, or design engineers may be divided between two or more engineers, as long as each engineer is responsible for a particular segment of the project (e.g., proposed earthwork, civil structures, power plant structures, equipment support). No segment of the project shall have more than one responsible engineer. The transmission line may be the responsibility of a separate California-registered electrical engineer. The civil, geotechnical or civil, and design engineer assigned in conformance with Facility Design condition GEN-5, may be responsible for design and review of the TSE facilities.</p> <p>The project owner shall submit to the CBO for review and approval, the names, qualifications, and registration numbers of all engineers assigned to the project. If any one of the designated engineers is subsequently reassigned or replaced, the project owner shall submit the name, qualifications, and registration number of the newly assigned engineer to the CBO for review and approval. The project owner shall notify BLM's Authorized Officer and the CPM of the CBO's approval of the new engineer. This engineer shall be authorized to halt earthwork and to require changes if site conditions are unsafe or do not conform with predicted conditions used as a basis for design of earthwork or foundations.</p> <p>The electrical engineer shall:</p> <ol style="list-style-type: none"> 1. Be responsible for the electrical design of the power plant switchyard, outlet and termination facilities; and 2. Sign and stamp electrical design drawings, plans, specifications, and 	<p>At least 30 days prior to the start of rough grading (or a lesser number of days mutually agreed to by the project owner and the CBO), the project owner shall submit to the CBO for review and approval, the names, qualifications, and registration numbers of all the responsible engineers assigned to the project. The project owner shall notify BLM's Authorized Officer and the CPM of the CBO's approvals of the engineers within five days of the approval.</p> <p>If the designated responsible engineer is subsequently reassigned or replaced, the project owner has five days in which to submit the name, qualifications, and registration number of the newly assigned engineer to the CBO for review and approval. The project owner shall notify BLM's Authorized Officer and the CPM of the CBO's approval of the new engineer within five days of the approval.</p>	X			9/15/2010	Approved	5/28/2010	9/2/2010
Transmission System Engineering	TSE-3	<p>If any discrepancy in design and/or construction is discovered in any engineering work that has undergone CBO design review and approval, the project owner shall document the discrepancy and recommend corrective action (California Building Code, 1998, Chapter 1, Section 108.4, Approval Required; Chapter 17, Section 1701.3, Duties and Responsibilities of the Special Inspector; Appendix Chapter 33, Section 3317.7, Notification of Noncompliance). The discrepancy documentation shall become a controlled document and shall be submitted to the CBO for review and approval and shall reference this condition of certification.</p>	<p>The project owner shall submit a copy of the CBO's approval or disapproval of any corrective action taken to resolve a discrepancy to BLM's Authorized Officer and the CPM within 15 days of receipt. If disapproved, the project owner shall advise BLM's Authorized Officer and the CPM, within five days, the reason for disapproval, and the revised corrective action required obtaining the CBO's approval.</p>	X			As needed	As needed		
Transmission System Engineering	TSE-4	<p>For the power plant switchyard, outlet line, and termination, the project owner shall not begin any increment of construction until plans for that increment have been approved by the CBO. These plans, together with design changes and design change notices, shall remain on the site for one year after completion of construction. The project owner shall require that the CBO inspect the installation to ensure compliance with the requirements of applicable LORS. The following activities shall be reported in the Monthly Compliance Report:</p> <ul style="list-style-type: none"> - Receipt or delay of major electrical equipment; - Testing or energization of major electrical equipment; and - The number of electrical drawings approved, submitted for approval, and still to be submitted. 	<p>At least 30 days prior to the start of each increment of construction (or a lesser number of days mutually agreed to by the project owner and the CBO), the project owner shall submit to the CBO for review and approval the final design plans, specifications, and calculations for equipment and systems of the power plant switchyard, outlet line, and termination, including a copy of the signed and stamped statement from the responsible electrical engineer attesting to compliance with the applicable LORS, and send BLM's Authorized Officer and the CPM a copy of the transmittal letter in the next Monthly Compliance Report.</p>	X		2011	Not yet started			
Transmission System Engineering	TSE-5	<p>The project owner shall ensure that the design, construction, and operation of the proposed transmission facilities will conform to all applicable LORS, including the requirements listed below. The project owner shall submit the required number of copies of the design drawings and calculations as determined by the CBO.</p> <p>A. The Ivanpah #1 will be interconnected to the SCE grid via a 115 kV segment of approximately 5,800 feet long single circuit.</p> <p>The Ivanpah #2 will be interconnected to the SCE grid via a 115 kV single circuit segment approximately 3900 feet long single circuit and an approximately 1400 feet long double circuit 115 kV generator tie-line. The Ivanpah #3 115 kV generator tie line would be approximately 14,100 feet long which would merge into a 115kV double circuit with the Ivanpah #2 generator tie line. The proposed Ivanpah substation would use a double bus breaker- and a half configuration with 3-bays and 5 positions or other configuration as may be approved by SCE.</p> <p>B. The power plant outlet line shall meet or exceed the electrical, mechanical, civil, and structural requirements of General Order 98 or National Electric Safety Code (NESC), Title 8 of the California Code and Regulations (Title 8), Articles 35, 36, and 37 of CPUC General Order 95the "High Voltage Electric Safety Orders", California ISO standards, National Electric Code (NEC), and related industry standards.</p> <p>C. Breakers and busses in the power plant switchyard and other switchyards, where applicable, shall be sized to comply with a short-circuit analysis.</p> <p>D. Outlet line crossings and line parallels with transmission and distribution facilities shall be coordinated with the transmission line owner and comply with the owner's standards.</p> <p>E. The project conductors shall be sized to accommodate the full output from the project.</p> <p>F. Termination facilities shall comply with applicable SCE interconnection standards.</p> <p>G. The project owner shall provide to BLM's Authorized Officer and the CPM:</p> <ol style="list-style-type: none"> 1. The final Detailed Facility Study (DFS) including a description of facility upgrades, operational mitigation measures, and Special Protection System (SPS) sequencing and timing if applicable, 2. Executed project owner, Transmission System Operator and California ISO Large Generator Interconnection Agreement. 	<p>At least 60 days prior to the start of construction of transmission facilities (or a lesser number of days mutually agreed to by the project owner and CBO), the project owner shall submit to the CBO for approval:</p> <ol style="list-style-type: none"> 1. Design drawings, specifications, and calculations conforming with CPUC General Order 95 and General Order 98 or NESC; Title 8, California Code of Regulations, Articles 35, 36, and 37 of the "High Voltage Electric Safety Orders"; NEC; applicable interconnection standards, and related industry standards for the poles/towers, foundations, anchor bolts, conductors, grounding systems, and major switchyard equipment. 2. For each element of the transmission facilities identified above, the submittal package to the CBO shall contain the design criteria, a discussion of the calculation method(s), a sample calculation based on "worst-case conditions," and a statement signed and sealed by the registered engineer in responsible charge, or other acceptable alternative verification, that the transmission element(s) will conform with CPUC General Order 95 or NESC; Title 8, California Code of Regulations, Articles 35, 36 and 37 of the "High Voltage Electric Safety Orders"; NEC; applicable interconnection standards, and related industry standards. 3. Electrical one-line diagrams signed and sealed by the registered professional electrical engineer in responsible charge, a route map, and an engineering description of equipment and the configurations covered by requirements TSE-5 1) through 5) above. 1 Worst-case conditions for the foundations would include for instance, a dead-end or angle pole. 4. The final Detailed Facility Study, including a description of facility upgrades, operational mitigation measures, and/or SPS sequencing and timing if applicable, shall be provided concurrently to BLM's Authorized Officer and the CPM. 	X		TBD	Not yet started			
Transmission System Engineering	TSE-6	<p>The project owner shall provide the following Notice to the California Independent System Operator (California ISO) prior to synchronizing the facility with the California transmission system as required in the LGIA:</p>	<p>The project owner shall provide copies of the CAISO notice to BLM's Authorized Officer and the CPM when it is sent to the CAISO. A report of the conversation with the CAISO shall be provided electronically to BLM's Authorized Officer and the CPM one day before synchronizing the facility with the California transmission system for the first time.</p>	X			TBD	Not yet started		
Transmission System Engineering	TSE-7	<p>The project owner shall be responsible for the inspection of the transmission facilities during and after project construction and any subsequent BLM authorized officer, CPM and CBO approved changes thereto, to ensure conformance with CPUC GO-95 or NESC; Title 8, CCR, Articles 35, 36 and 37 of the "High Voltage Electric Safety Orders"; applicable interconnection standards; NEC; and related industry standards. In case of non-conformance, the project owner shall inform BLM's Authorized Officer, the CPM and CBO in writing, within 10 days of discovering such non-conformance and describe the corrective actions to be taken.</p>	<p>Within 60 days after first synchronization of the project, the project owner shall transmit to BLM's Authorized Officer, the CPM and CBO:</p> <ol style="list-style-type: none"> 1. "As built" engineering description(s) and one-line drawings of the electrical portion of the facilities signed and sealed by the registered electrical engineer in responsible charge. A statement attesting to conformance with CPUC GO-95 or NESC; Title 8, California Code of Regulations, Articles 35, 36 and 37 of the "High Voltage Electric Safety Orders"; applicable interconnection standards; NEC; and related industry standards, and these conditions shall be provided concurrently. 2. An "as built" engineering description of the mechanical, structural, and civil portion of the transmission facilities signed and sealed by the registered engineer in responsible charge or acceptable alternative verification. "As built" drawings of the electrical, mechanical, structural, and civil portion of the transmission facilities shall be maintained at the power plant and made available, if requested, for BLM's Authorized Officer or CPM audit as set forth in the "Compliance Monitoring Plan." 3. A summary of inspections of the completed transmission facilities, and identification of any nonconforming work and corrective actions taken, signed and sealed by the registered engineer in charge 	X		2013	Not yet started			

Transm. Lines	TSLN-1	The project owner shall construct the proposed generation tie lines according to the first point of interconnection requirements of California Public Utility Commission's GO-95, GO-52, GO-131-D, Title 8, and Group 2. High Voltage Electrical Safety Orders, sections 2700 through 2974 of the California Code of Regulations, and Southern California Edison's EMF-reduction guidelines.	At least 30 days before starting the generation tie lines or related structures and facilities, the project owner shall submit to BLM's Authorized Officer and the Compliance Project Manager (CPM) a letter signed by a California registered electrical engineer affirming that the lines will be constructed according to the requirements stated in the condition.		X		TBD	TBD			
Transm. Lines	TSLN-2	The project owner shall use a qualified individual to measure the strengths of the electric and magnetic fields from the line the points of maximum intensity along the route for which the applicant provided specific estimates. The measurements shall be made before and after energization according to the American National Standard Institute/Institute of Electrical and Electronic Engineers (ANSI/IEEE) standard procedures. These measurements shall be completed no later than 6 months after the start of operations.	The project owner shall file copies of the pre-and post-energization measurements with BLM's Authorized Officer and the CPM within 60 days after completion of the measurements.		X	X	TBD	TBD			
Transm. Lines	TSLN-3	The project owner shall ensure that the rights-of-way of the proposed generation tie lines are kept free of combustible material, as required under the provisions of section 4292 of the Public Resources Code and section 1250 of Title 14 of the California Code of Regulations.	During the first 5 years of plant operation, the project owner shall provide a summary of inspection results and any fire prevention activities carried out along the right-of-way and provide such summaries in the Annual Compliance Report to be provided to BLM's Authorized Officer and the CPM.			X	2014	Ongoing - annually			
Transm. Lines	TSLN-4	The project owner shall ensure that all permanent metallic objects within the right-of-way of the project-related generation tie lines are grounded according to industry standards regardless of ownership.	At least 30 days before the lines are energized, the project owner shall transmit to BLM's Authorized Officer and the CPM a letter confirming compliance with this condition.		X		2013	Not yet started			
Visual Resources	VIS-1	The project owner shall treat the surfaces of all project structures and buildings visible to the public, other than surfaces that are included to direct or reflect sunlight, such that a) their colors minimize visual intrusion and contrast by blending with the existing tan and brown color of the surrounding landscape; and b) their colors and finishes do not create excessive glare. The transmission line conductors shall be non-reflective, and the insulators shall be non-reflective and non refractive. The project owner shall submit for CPM review and approval, a specific Surface Treatment Plan that will satisfy these requirements.	At least 90 days prior to specifying to the vendor the colors and finishes for each set of structures or buildings that are surface treated during manufacture, the project owner shall submit the proposed treatment plan to BLM's Authorized Officer and the CPM for review and approval and simultaneously to San Bernardino County for review and comment. If BLM's Authorized Officer and the CPM determine that the plan requires revision, the project owner shall provide to BLM's Authorized Officer and the CPM a plan with the specified revision(s) for review and approval by BLM's Authorized Officer and the CPM before any treatment is applied. Any modifications to the treatment plan must be submitted to BLM's Authorized Officer and the CPM for review and approval. BLM's Authorized Officer and the CPM shall review and approve the Surface Treatment Plan and identify any material deficiencies within thirty (30) days of receipt. The treatment plan shall include: A. A description of the overall rationale for the proposed surface treatment, including the selection of the proposed color(s) and finishes; B. A list of each major project structure, building, tank, pipe, and wall; the transmission line towers and/or poles; and fencing, specifying the color(s) and finish proposed for each. Colors must be identified by vendor, name, and number; or according to a universal designation system; C. One set of color brochures or color chips showing each proposed color and finish; D. A specific schedule for completion of the treatment; and E. A procedure to ensure proper treatment maintenance for the life of the project. The project owner shall not specify to the vendors the treatment of any buildings or structures treated during manufacture, or perform the final treatment on any buildings or structures treated in the field, until the project owner receives notification of approval of the treatment plan by BLM's Authorized Officer and the CPM. Subsequent modifications to the treatment plan are prohibited without BLM's Authorized Officer and CPM approval. Prior to the start of commercial operation, the project owner shall notify BLM's Authorized Officer and the CPM that surface treatment of all listed structures and buildings has been completed and they are ready for inspection and shall submit to each one set of electronic color photographs from the same key observation points identified in (d) above. The project owner shall provide a status report regarding surface treatment maintenance in the Annual Compliance Report. The report shall specify: a) the condition of the surfaces of all structures and buildings at the end of the reporting year; b) maintenance activities that occurred during the reporting year; and c) the schedule of maintenance activities for the next year.		X	6/9/2010	Approved	6/30/2010; 11/4/2010 (rev. 1)	10/7/2010; 11/23/2010 (rev. 1)		
Visual Resources	VIS-2	At the request of, and in consultation with BLM's Authorized Officer, the CPM and the golf course owner, the project owner shall prepare a perimeter landscape screening plan to reduce the visibility of the proposed ISEGS project as seen from the golf course. The purpose of the plan shall be to provide screening of the power project, particularly the mirror fields, while retaining as much of the scenic portion of the overall views of Ivanpah Valley and Clark Mountains as feasible. The design approach shall be developed with prior consultation with the golf course owner, and implemented only at the golf course owner's request. The project owner shall submit to BLM's Authorized Officer and the CPM for review and approval and simultaneously to the golf course owner for review and comment a preliminary conceptual landscaping plan whose objective is to provide an attractive visual screen to views of the ISEGS project mirror fields. Upon approval by BLM's Authorized Officer and the CPM and golf course owner, the project owner shall submit to BLM's Authorized Officer and the CPM for review and approval and simultaneously to the golf course owner for review and comment a landscaping plan whose proper implementation will satisfy these requirements. The plan shall not be implemented until the project owner receives final approval from BLM's Authorized Officer and the CPM.	The landscaping plan shall be submitted to BLM's Authorized Officer and the CPM for review and approval and simultaneously to the golf course owner for review and comment at least 90 days prior to installation of the landscaping. If BLM's Authorized Officer and the CPM determine that the plan requires revision, the project owner shall provide to BLM's Authorized Officer and the CPM and simultaneously to the golf course owner a revised plan for review and approval by BLM's Authorized Officer and the CPM. The plan shall include: A. A detailed landscape, grading, and irrigation plan, at a reasonable scale. The plan shall demonstrate how the requirements stated above shall be met. The plan shall provide a detailed installation schedule demonstrating installation of as much of the landscaping as early in the construction process as is feasible in coordination with project construction. B. A list (prepared by a qualified professional arborist familiar with local growing conditions) of proposed species, specifying installation sizes, growth rates, expected time to maturity, expected size at five years and at maturity, spacing, number, availability, and a discussion of the suitability of the plants for the site conditions and mitigation objectives, with the objective of providing the widest possible range of species from which to choose; C. Maintenance procedures, including any needed irrigation and a plan for routine annual or semi-annual debris removal for the life of the project; D. A procedure for monitoring for and replacement of unsuccessful plantings for the life of the project; and E. One set each for BLM's Authorized Officer and the CPM of 11"x17" color photo simulations of the proposed landscaping at five years and twenty years after planting, as viewed from adjoining segments of I-1. The plan shall not be implemented until the project owner receives final approval from BLM's Authorized Officer and the CPM. The planting must occur during the first optimal planting season following site mobilization. The project owner shall simultaneously notify BLM's Authorized Officer and the CPM and the golf course owner within seven days after completing installation of the landscaping, that the landscaping is ready for inspection. The project owner shall report landscape maintenance activities, including replacement of dead or dying vegetation, for the previous year of operation in each Annual Compliance Report.		X	2011	Not yet started				
Visual Resources	VIS-3	The project owner shall revegetate disturbed soil areas to the greatest practical extent, as described in mitigation measures BIO-14 and BIO-27. In order to address specifically visual concerns, the required Closure, Revegetation and Rehabilitation Plan shall include reclamation of the area of disturbed soils used for laydown, project construction, and siting of the substation and other ancillary operation and support structures.	Refer to mitigation measures BIO-14 and BIO-27.				N/A	N/A			

Visual Resources	VIS-4	To the extent feasible, consistent with safety and security considerations, the project owner shall design and install all permanent exterior lighting and all temporary construction lighting such that a) lamps and reflectors are not visible from beyond the project site, including any off-site security buffer areas; b) lighting does not cause excessive reflected glare; c) direct lighting does not illuminate the nighttime sky, except for required FAA aircraft safety lighting; d) illumination of the project and its immediate vicinity is minimized, and e) the plan complies with local policies and ordinances. The project owner shall submit to BLM's Authorized Officer and the CPM for review and approval and simultaneously to the County of San Bernardino for review and comment a lighting mitigation plan.	At least 90 days prior to ordering any permanent exterior lighting or temporary construction lighting, the project owner shall contact BLM's Authorized Officer and the CPM to discuss the documentation required in the lighting mitigation plan. At least 60 days prior to ordering any permanent exterior lighting, the project owner shall submit to BLM's Authorized Officer and the CPM for review and approval and simultaneously to the County of San Bernardino for review and comment a lighting mitigation plan. If BLM's Authorized Officer and the CPM determine that the plan requires revision, the project owner shall provide to BLM's Authorized Officer and the CPM a revised plan for review and approval by BLM's Authorized Officer and the CPM. BLM Authorized Officer and the CPM shall approve or identify any material deficiencies in the Lighting Plan within 30 days following the receipt of the Plan. The Lighting Plan shall include the following: A. Location and direction of light fixtures shall take the lighting mitigation requirements into account; B. Lighting design shall consider setbacks of project features from the site boundary to aid in satisfying the lighting mitigation requirements; C. Lighting shall incorporate fixture hoods/shielding, with light directed downward or toward the area to be illuminated; D. Light fixtures that are visible from beyond the project boundary shall have cutoff angles that are sufficient to prevent lamps and reflectors from being visible beyond the project boundary, except where necessary for security; E. All lighting shall be of minimum necessary brightness consistent with operational safety and security; and F. Lights in high illumination areas not occupied on a continuous basis (such as maintenance platforms) shall have (in addition to hoods) switches, timer switches, or motion detectors so that the lights operate only when the area is occupied. The project owner shall not order any exterior lighting until receiving BLM Authorized Officer and CPM approval of the lighting mitigation plan. Prior to commercial operation, the project owner shall notify BLM's Authorized Officer and the CPM that the lighting has been completed and is ready for inspection. If after inspection, BLM's Authorized Officer and the CPM notify the project owner that modifications to the lighting are needed, within 30 days of receiving that notification the project owner shall implement the modifications and notify BLM's Authorized Officer and the CPM that the modifications have been completed and are ready for inspection. Within 48 hours of receiving a lighting complaint, the project owner shall provide BLM's Authorized Officer and the CPM with a complaint resolution form report as specified in the Compliance General Conditions including a proposal to resolve the complaint, and a schedule for implementation. The project owner shall notify BLM's Authorized Officer and the CPM within 48 hours after completing implementation of the proposal. A copy of the complaint resolution form report shall be submitted to BLM's Authorized Officer and the CPM within 30 days.					11/15/2010	Submitted	11/1/2010		
Waste Mgmt	WASTE-1	The project owner shall provide the resume of an experienced and qualified professional engineer or professional geologist who shall be available for consultation during site characterization (if needed), demolition, excavation, and grading activities to BLM's Authorized Officer and the CPM for review and approval. The resume shall show experience in remedial investigation and feasibility studies. The professional engineer or professional geologist shall be given authority by the project owner to oversee any earth moving activities that have the potential to disturb contaminated soil and impact public health, safety and the environment.	At least 30 days prior to the start of site mobilization, the project owner shall submit the resume to BLM's Authorized Officer and the CPM for review and approval.	X				8/9/2010	Approved	7/16/2010	10/7/2010	
Waste Mgmt	WASTE-2	If potentially contaminated soil is identified during site characterization, demolition, excavation, or grading at either the proposed site or linear facilities, as evidenced by discoloration, odor, detection by handheld instruments, or other signs, the professional engineer or professional geologist shall inspect the site, determine the need for sampling to confirm the nature and extent of contamination, and provide a written report to the project owner, representatives of Department of Toxic Substances Control or Regional Water Quality Control Board, BLM's Authorized Officer, and the CPM stating the recommended course of action. Depending on the nature and extent of contamination, the professional engineer or professional geologist shall have the authority to temporarily suspend construction activity at that location for the protection of workers or the public. If, in the opinion of the professional engineer or professional geologist, significant remediation may be required, the project owner shall contact BLM's Authorized Officer and the CPM and representatives of the Department of Toxic Substances Control Board, for guidance and possible oversight.	The project owner shall submit any final reports filed by the professional engineer or professional geologist to BLM's Authorized Officer and the CPM within 5 days of their receipt. The project owner shall notify BLM's Authorized Officer and the CPM within 24 hours of any orders issued to halt construction.		X			As needed	As needed			
Waste Mgmt	WASTE-3	The project owner shall prepare a Construction Waste Management Plan for all wastes generated during construction of the facility and shall submit the plan to BLM's Authorized Officer and the CPM for review and approval. The plan shall contain, at a minimum, the following: • a description of all construction waste streams, including projections of frequency, amounts generated, and hazard classifications; and • management methods to be used for each waste stream, including temporary on-site storage, housekeeping and best management practices to be employed, treatment methods and companies providing treatment services, waste testing methods to assure correct classification, methods of transportation, disposal requirements and sites, and recycling and waste minimization/source reduction plans.	The project owner shall submit the Construction Waste Management Plan to BLM's Authorized Officer and the CPM for approval no less than 30 days prior to the initiation of construction activities at the site. BLM's Authorized Officer and the CPM shall approve or identify any material deficiencies in the Construction Waste Management Plan within 30 days following receipt of the Plan.	X				6/15/2010	Approved	6/25/2010	10/7/2010	
Waste Mgmt	WASTE-4	The project owner shall obtain a hazardous waste generator identification number from the United States Environmental Protection Agency prior to generating any hazardous waste during project construction and operations.	The project owner shall keep a copy of the identification number on file at the project site and provide documentation of the hazardous waste generation notification and receipt of the number to BLM's Authorized Officer and the CPM in the next scheduled Monthly Compliance Report after receipt of the number. Submittal of the notification and issued number documentation to BLM's Authorized Officer and the CPM is only needed once unless there is a change in ownership, operation, waste generation, or waste characteristics that requires a new notification to USEPA. Documentation of any new or revised hazardous waste generator notifications or changes in identification number shall be provided to BLM's Authorized Officer and the CPM in the next scheduled compliance report.		X	X		As needed	Ongoing			
Waste Mgmt	WASTE-5	Upon becoming aware of any impending waste management-related enforcement action by any local, state, or federal authority, the project owner shall notify BLM's Authorized Officer and the CPM of any such action taken or proposed to be taken against the project itself, or against any waste hauler or disposal facility or treatment operator with which the owner contracts.	The project owner shall notify BLM's Authorized Officer and the CPM in writing within 10 days of becoming aware of an impending enforcement action. BLM's Authorized Officer and the CPM shall notify the project owner of any changes that will be required in the way project-related wastes are managed.	X	X			As needed	As needed			

Waste Mgmt	WASTE-6	The project owner shall prepare an Operation Waste Management Plan for all wastes generated during operation of the facility and shall submit the plan to BLM's Authorized Officer and the CPM for review and approval. The plan shall contain, at a minimum, the following: <ul style="list-style-type: none"> a detailed description of all operation and maintenance waste streams, including projections of amounts to be generated, frequency of generation, and waste hazard classifications; management methods to be used for each waste stream, including temporary on-site storage, housekeeping and best management practices to be employed, treatment methods and companies providing treatment services, waste testing methods to assure correct classification, methods of transportation, disposal requirements and sites, and recycling and waste minimization/source reduction plans; information and summary records of conversations with the local Certified Unified Program Agency and the Department of Toxic Substances Control regarding any waste management requirements necessary for project activities. Copies of all required waste management permits, notices, and/or authorizations shall be included in the plan and updated as necessary; a detailed description of how facility wastes will be managed and any contingency plans to be employed, in the event of an unplanned closure or planned temporary facility closure; and a detailed description of how facility wastes will be managed and disposed upon closure of the facility. 	The project owner shall submit the Operation Waste Management Plan to BLM's Authorized Officer and the CPM for approval no less than 30 days prior to the start of project operation. BLM's Authorized Officer and the CPM shall approve or identify any material deficiencies in the Operation Waste Management Plan within 30 days following receipt of the Plan. The project owner shall submit any required revisions to BLM's Authorized Officer and the CPM within 20 days of notification from BLM's Authorized Officer and the CPM that revisions are necessary. The project owner shall also document in each Annual Compliance Report the actual volume of wastes generated and the waste management methods used during the year; provide a comparison of the actual waste generation and management methods used to those proposed in the original Operation Waste Management Plan; and update the Operation Waste Management Plan as necessary to address current waste generation and management practices.	X	X	2013	Not yet started			
Waste Mgmt	WASTE-7	The project owner shall ensure that all spills or releases of hazardous substances, hazardous materials, or hazardous waste are reported, cleaned up, and remediated as necessary, in accordance with all applicable federal, state, and local requirements.	The project owner shall document all unauthorized releases and spills of hazardous substances, materials, or wastes that occur on the project property or related pipeline and transmission corridors. The documentation shall include, at a minimum, the following information: location of release; date and time of release; reason for release; volume released; amount of contaminated soil/material generated; how release was managed and material cleaned up; if the release was reported; to whom the release was reported; release corrective action and cleanup requirements imposed by regulating agencies; level of cleanup achieved and actions taken to prevent a similar release or spill; and disposition of any hazardous wastes and/or contaminated soils and materials that may have been generated by the release. Copies of the unauthorized spill documentation shall be provided to BLM's Authorized Officer and the CPM within 30 days of the date the release was discovered.	X	X	As needed	As needed			
Worker Safety & FP	WS-1	The project owner shall submit to BLM's Authorized Officer and the Compliance Project Manager (CPM) a copy of the Project Construction Safety and Health Program containing the following: <ul style="list-style-type: none"> A Construction Personal Protective Equipment Program; A Construction Exposure Monitoring Program; A Construction Injury and Illness Prevention Program; A Construction Emergency Action Plan; and A Construction Fire Prevention Plan. 	At least thirty (30) days prior to the start of construction, the project owner shall submit to BLM's Authorized Officer and the CPM for review and approval a copy of the Project Construction Safety and Health Program. The project owner shall provide a copy of a letter to the BLM's Authorized Officer and CPM from the San Bernardino County Fire Department, if any is received, stating the Fire Department's comments on the Construction Fire Prevention Plan and Emergency Action Plan. The Personal Protective Equipment Program, the Exposure Monitoring Program, and the Injury and Illness Prevention Program shall be submitted to BLM's Authorized Officer and the CPM for review and approval concerning compliance of the program with all applicable Safety Orders. The Construction Emergency Action Plan and the Fire Prevention Plan shall be submitted to the San Bernardino County Fire Department for review and comment prior to submittal to the BLM's Authorized Officer and CPM for approval.	X		9/8/2010	Approved	9/3/2010	10/7/2010	
Worker Safety & FP	WS-2	The project owner shall submit to BLM's Authorized Officer and the CPM a copy of the Project Operations and Maintenance Safety and Health Program containing the following: <ul style="list-style-type: none"> An Operation Injury and Illness Prevention Plan; An Emergency Action Plan; Hazardous Materials Management Program; Fire Prevention Program (8 CCR § 3221); and; Personal Protective Equipment Program (8 CCR §§ 3401-3411). 	At least thirty (30) days prior to the start of first-fire or commissioning, the project owner shall submit to BLM's Authorized Officer and the CPM for approval a copy of the Project Operations and Maintenance Safety and Health Program. The project owner shall provide a copy of a letter to BLM's Authorized Officer and the CPM from the San Bernardino County Fire Department stating the Fire Department's comments on the Operations Fire Prevention Plan and Emergency Action Plan. The Operation Injury and Illness Prevention Plan, Emergency Action Plan, and Personal Protective Equipment Program shall be submitted to BLM's Authorized Officer and the CPM for review and approval concerning compliance of the program with all applicable Safety Orders. The Operation Fire Prevention Plan and the Emergency Action Plan shall also be submitted to the San Bernardino County Fire Department for review and comment.		X	2013	Not yet started			
Worker Safety & FP	WS-3	The project owner shall provide a site Construction Safety Supervisor (CSS) who, by way of training and/or experience, is knowledgeable of power plant construction activities and relevant laws, ordinances, regulations, and standards, is capable of identifying workplace hazards relating to the construction activities, and has authority to take appropriate action to assure compliance and mitigate hazards. The CSS shall: <ul style="list-style-type: none"> Have over-all authority for coordination and implementation of all occupational safety and health practices, policies, and programs; Assure that the safety program for the project complies with Cal/OSHA and federal regulations related to power plant projects; Assure that all construction and commissioning workers and supervisors receive adequate safety training; Complete accident and safety-related incident investigations, emergency response reports for injuries, and inform BLM's Authorized Officer and the CPM of safety-related incidents; and Assure that all the plans identified in WORKER SAFETY-1 and -2 are implemented. 	At least thirty (30) days prior to the start of site mobilization, the project owner shall submit to BLM's Authorized Officer and the CPM the name and contact information for the Construction Safety Supervisor (CSS). The contact information of any replacement (CSS) shall be submitted to BLM's Authorized Officer and the CPM within three business days. The CSS shall submit in the Monthly Compliance Report a monthly safety inspection report to include: <ul style="list-style-type: none"> a record of all employees trained for that month (all records shall be kept on site for the duration of the project); a summary report of safety management actions and safety-related incidents that occurred during the month; a report of any continuing or unresolved situations and incidents that may pose danger to life or health; and a report of accidents and injuries that occurred during the month. 	X	X	8/13/2010	Approved	6/24/2010	9/2/2010	
Worker Safety & FP	WS-4	The project owner shall make payments to the Chief Building Official (CBO) for the services of a Safety Monitor based upon a reasonable fee schedule to be negotiated between the project owner and the CBO. Those services shall be in addition to other work performed by the CBO. The Safety Monitor shall be selected by and report directly to the CBO, and will be responsible for verifying that the Construction Safety Supervisor, as required in WORKER SAFETY-3, implements all applicable Cal/OSHA and Commission safety requirements. The Safety Monitor shall conduct on-site (including linear facilities) safety inspections at intervals necessary to fulfill those responsibilities.	At least thirty (30) days prior to the start of construction, the project owner shall provide proof of its agreement to fund the Safety Monitor services to BLM's Authorized Officer and the CPM for review and approval.	X		8/20/2010	Approved	8/20/2010	9/2/2010	
Worker Safety & FP	WS-5	The project owner shall ensure that a portable automatic external defibrillator (AED) is located on site during construction and operations and shall implement a program to ensure that workers are properly trained in its use and that the equipment is properly maintained and functioning at all times. During construction and commissioning, the following persons shall be trained in its use and shall be on-site whenever the workers that they supervise are on-site: the Construction Project Manager or delegate, the Construction Safety Supervisor or delegate, and all shift foremen. During operations, all power plant employees shall be trained in its use. The training program shall be submitted to BLM's Authorized Officer and the CPM for review and approval.	At least thirty (30) days prior to the start of site mobilization the project owner shall submit to BLM's Authorized Officer and the CPM proof that a portable AED exists on site and a copy of the training and maintenance program for review and approval.		X	8/13/2010	Approved	8/13/2010	9/2/2010	
Worker Safety & FP	WS-6	The project owner shall prepare and implement a Best Management Practices (BMPs) for the storage and application of herbicides used to control weeds beneath and around the solar array. These plans shall be submitted to BLM's Authorized Officer and the CPM for review and approval.	At least thirty (30) days prior to the start of site mobilization, the project owner shall submit to BLM's Authorized Officer and the CPM for review and approval a copy of the Best Management Practices (BMPs) for the storage and application of herbicides.	X		7/15/2010	Approved	7/7/2010	10/7/2010	
Worker Safety & FP	WS-7	The project owner shall either: (1) Reach an agreement with the San Bernardino County Fire Department (SBCFD) regarding funding of its project-related share of capital and operating costs to improve fire protection/emergency response infrastructure and provide appropriate equipment as mitigation of project-related impacts on fire protection/emergency response services within the jurisdiction; or (2) If no agreement can be reached, the project owner shall fund a study (the "independent fire needs assessment and risk assessment") conducted by an independent contractor who shall be selected by the project owner and approved by the CEC Compliance Project Manager (CPM), in consultation with San Bernardino County Fire Department, and fulfill all mitigation identified in the independent fire needs assessment and a risk assessment. The study will evaluate the project's proportionate funding responsibility for the above-identified mitigation measures, with particular attention to emergency response and equipment/staffing/location needs.	At least five (5) days before construction of permanent aboveground structures, the project owner shall provide to the CPM: (1) A copy of the individual agreement with the SBCFD or, if the owner joins a power generation industry association, a copy of the group's bylaws and a copy of the group's agreement with the SBCFD; and evidence in each January Monthly Compliance Report that the project owner is in full compliance with the terms of such bylaws and/or agreement; or (2) A protocol, scope and schedule of work for the independent study and the qualifications of proposed contractor(s) for review and approval by the CPM; a copy of the completed study showing the precise amount the project owner shall pay for mitigation; and documentation that the amount has been paid. Annually thereafter, the owner shall provide the CPM with verification of funding to the SBCFD if annual payments were approved or recommended under either of the above-described funding resolution options.		X	12/1/2010	In progress			

Worker Safety & FP	WS-7 (continued)	<p>Should the project owner pursue option (2), above, the study shall evaluate the following:</p> <p>(a) The project's proportionate (incremental) contribution to potential cumulative impacts on the SBCFD and the project allocated costs of enhanced fire protection/emergency response services including the fire response, hazardous materials spill/leak response, rescue, and emergency medical services necessary to mitigate such impacts;</p> <p>(b) The extent that the project's contribution to local tax revenue will reduce impacts on local fire protection and emergency response services; and</p> <p>(c) Recommend an amount of funding (and corresponding payment plan) that represents the project's proportional payment obligation for the above-identified mitigation measures. Compliance Protocols shall be as follows:</p> <p>(a) The study shall be conducted by an independent consultant selected by the project owner and approved by the CPM after consultation with the SBCFD. The project owner shall provide the CPM with the names of at least three consultants, whether entities or individuals, from which to make a selection, together with statements of qualifications;</p> <p>(b) The study shall be fully funded by the project owner.</p> <p>(c) The project owner shall provide the protocols for conducting the independent study for review and comment by the SBCFD and review and approval by the CPM prior to the independent consultant's commencement of the study;</p> <p>(d) The consultant shall not communicate directly with the project owner or SBCFD without express prior authorization from the CPM. When such approval is given, the CPM shall be copied on any correspondence between or among the project owner, SBCFD, and the consultant (including emails) and included in any conversations between or among the project owner, SBCFD and consultant; and</p> <p>(e) The CPM shall verify that the study is prepared consistent with the approved protocols, or</p> <p>(3) If the project owner and SBCFD do not agree to the recommendations of the independent consultant's study, the Energy Commission or its designee shall, based on the results of the study and comments from the project owner and SBCFD, make the final determination regarding the funding to be provided to the SBCFD to accomplish the above-identified mitigation. No construction of permanent above-ground structures shall occur until funding of mitigation occurs pursuant to either of the resolution options set forth above.</p>	<p>At least five (5) days before construction of permanent aboveground structures, the project owner shall provide to the CPM:</p> <p>(1) A copy of the individual agreement with the SBCFD or, if the owner joins a power generation industry association, a copy of the group's bylaws and a copy of the group's agreement with the SBCFD; and evidence in each January Monthly Compliance Report that the project owner is in full compliance with the terms of such bylaws and/or agreement; or</p> <p>(2) A protocol, scope and schedule of work for the independent study and the qualifications of proposed contractor(s) for review and approval by the CPM; a copy of the completed study showing the precise amount the project owner shall pay for mitigation; and documentation that the amount has been paid. Annually thereafter, the owner shall provide the CPM with verification of funding to the SBCFD if annual payments were approved or recommended under either of the above-described funding resolution options.</p>	X			12/1/2010	In progress			
Worker Safety & FP	WS-8	<p>The project owner shall:</p> <p>Provide a \$200,000 payment to San Bernardino County Fire Department prior to the start of construction. This funding shall off-set any initial funding required by WORKER SAFETY-7 above until the funds are exhausted. This offset will be based on a full accounting by the San Bernardino County Fire Department regarding the use of these funds.</p>	<p>At least five (5) days prior to the start of construction the project owner shall provide documentation of the payment described above to the CPM. The CPM shall adjust the payments initially required by WORKER SAFETY-7 based upon the accounting provided by the San Bernardino County Fire Department.</p>	X			10/1/2010	Approved	10/4/2010	10/7/2010	

Exhibit 4

Air Quality Monthly Compliance Report Condition of Certification AQSC-3, AQSC-4, & AQSC-5

Air Quality Monthly Compliance Report

November 2010

IVANPAH SOLAR ELECTRIC GENERATING SYSTEM

DOCKET NUMBER 07-AFC-5

Completed by:

Tracie Wheaton, AQCMM

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1. Conditions Satisfied During Reporting Period

The following Conditions of Certification were satisfied during the reporting period:

AQ-SC2 – Implemented the Air Quality Construction Mitigation Plan (draft) as submitted (AQCMP) on 7-14-2010. On Tuesday, November 30, 2010, Joseph Douglas the California Energy Commission Compliance Project Manager, sent comments to BrightSource Energy on the site AQCMP from Mr. Brenner Munger. Those comments were incorporated into the AQCMP which has been revised and is being prepared for submission in early December.

AQ-SC3 – This condition will be continually enforced through implementation of the site AQCMP. The Site Compliance Manager required watering of unpaved and paved roads, and disturbed areas where all site activities took place. Speed limits are being enforced on site in compliance with the AQCMP. On Tuesday, November 30, 2010, Joseph Douglas the California Energy Commission Compliance Project Manager, sent comments to BrightSource Energy on the October 2010 Ivanpah SEGS Air Quality Monthly Compliance Report from Mr. Brenner Munger. These comments specifically related to the documentation of compliance with AQ-SC3 within section 3.3 of this report. Section 3.3 has been revised to be complete and in accordance with the condition as outlined in the California Energy Commission Final Decision.

AQ-SC4 - This condition will be continually enforced through implementation of the site AQCMP. The Site Compliance Manager required additional dust plume response as required during the reporting period. On Tuesday, November 30, 2010, Joseph Douglas the California Energy Commission Compliance Project Manager, sent comments to BrightSource Energy on the October 2010 Ivanpah SEGS Air Quality Monthly Compliance Report from Mr. Brenner Munger. These comments specifically related to the documentation of compliance with AQ-SC4 within section 3.4 of this report. Section 3.4 has been revised to be complete and in accordance with the condition as outlined in the California Energy Commission Final Decision.

AQ-SC5 - This condition will be continually enforced through implementation of the site AQCMP. The Site Compliance Manager required heavy, diesel fueled equipment to be inspected prior to entering the site. Vehicles logs were obtained from each contractor and compiled into the attached Appendix B, Heavy Equipment List. On Tuesday, November 30, 2010, Joseph Douglas the California Energy Commission Compliance Project Manager, sent comments to BrightSource Energy on the October 2010 Ivanpah SEGS Air Quality Monthly Compliance Report from Mr. Brenner Munger. These comments specifically related to the use of non Tier III equipment on site and missing information on the Heavy Equipment List. Every attempt was made to ensure the use of Tier III equipment on site for construction diesel engines with a rating of 50 hp or higher during the month of November 2010. In addition, the Heavy Equipment List includes detailed information on any Tier II off-road equipment larger than 100 hp listed along with documentation included within Appendix B showing where Tier III equipment was not available within the area. Appendix B also includes letters from the contractors ensuring equipment was in proper working order for each piece of equipment listed within the Heavy Equipment List.

Vehicles and their undercarriages were inspected by the Site Compliance Manager and compiled in the attached Appendix E, Vehicle Undercarriage Inspection Log.

Conditions of Certification AQ-SC7 through AQ-SC10 and AQ-1 through AQ-31 are not required to be implemented as no mirror washing, commercial operations, or boiler operations are underway at this time.

2. Missed Submittal Deadlines

There were no missed submittal deadlines within the November 2010 reporting period.

3. Project Compliance Activities

3.1 AQCMM (AQ-SC1)

The AQCMM and delegate were approved on 10-7-2010 with the project Notices to Proceed from the California Energy Commission and Bureau of Land Management.

3.2 AQCMP (AQ-SC2)

On Tuesday, November 30, 2010, Joseph Douglas the California Energy Commission Compliance Project Manager, sent comments to BrightSource Energy on the site AQCMP from Mr. Brenner Munger. Those comments were incorporated into the AQCMP which has been revised and is being prepared for submission in early December.

3.3 Fugitive Dust (AQ-SC3)

The following actions were taken to maintain compliance with fugitive dust requirements:

- ✓ Main roads were paved or stabilized using water
- ✓ Unpaved roads were stabilized using water
- ✓ Disturbed areas were watered during grading
- ✓ Disturbed areas were stabilized using water
- ✓ Vehicle speed limits were enforced in accordance with the AQCMP
- ✓ Visible speed limit sign was posted at the construction site entrance
- ✓ Construction equipment vehicle tires were inspected to prevent tire track out on paved roadways
- ✓ All unpaved exits from the construction site were treated to prevent track-out to public roadways
- ✓ All construction vehicles entered the construction site through the treated entrance roadways as specified in the SWPPP and DESC
- ✓ Run-off prevention measures were applied to construction areas adjacent to paved roadways
- ✓ Paved roadways were swept daily or as needed
- ✓ Paved public roadways were swept as needed
- ✓ No soil storage piles or disturbed areas remained inactive for longer than 10 days during the reporting period

- ✓ No vehicles were used to transport solid bulk material off site onto public roadways.
- ✓ Wind erosion control techniques were applied at construction areas
- ☐ Gravel ramps of at least 20 feet in length at the tire washing/cleaning station were not implemented as the station construction and required water lines have not yet been developed
- ☐ Other actions were taken (describe).

3.4 Dust Plume Response (AQ-SC4)

The following actions were taken to maintain compliance with dust plume response requirements.

- ✓ The AQCMM directed more intensive application of existing mitigation measures within 15 minutes of making a determination of a visible dust plume having the potential to be transported in accordance with Condition of Certification AQ-SC4. The site AQCMM required the use of additional water suppression in front of heavy equipment due to increased wind conditions on 11/8/2010 and 11/9/2010.
- ✓ The AQCMM directed implementation of additional methods of dust suppression within 30 minutes of making a determination of a visible dust plume having the potential to be transported in accordance with Condition of Certification AQ-SC4. The site AQCMM required the use of additional water suppression in front of heavy equipment and also the rate reduction of heavy equipment on site due to increased wind conditions on 11/8/2010 and 11/9/2010. Once these implementation measures were put in place, the visible dust plume dissipated.
- ☐ The AQCMM directed a temporary shutdown of an activity causing a visible dust plume within 1 hour of making a determination of a visible dust plume having the potential to be transported in accordance with Condition of Certification AQ-SC4.
- ☐ Other actions were taken (describe).

3.5 Diesel-Fueled Engine Control Requirements (AQ-SC5)

The following actions were taken to maintain compliance with Diesel-fueled engine control requirements:

- ✓ Visible tags were attached to Diesel-fueled engines used in facility construction
- ✓ All Diesel engines construction diesel engines with a rating of 50 hp or higher introduced to the site were certified Tier 3 or better
- ✓ In the event that a Tier 3 engine was not available for any off-road equipment larger than 100 hp, that equipment was equipped with a Tier 2 engine, or an engine that is equipped with retrofit controls to reduce exhaust emissions. Tier 2 engines were introduced to the site, following a demonstration that no Tier 3 engines were available. Details can be found within Appendix B for each vehicle.

- ✓ Tier 0 or Tier 1 engines were introduced to the site, following a demonstration that a Tier 2 engine was not available, and use of retrofit device to control emissions was not practical Details can be found within Appendix B for each vehicle.
- ✓ All heavy earth moving equipment and heavy duty construction trucks were properly maintained and engines were properly tuned. Documentation of proper vehicle maintenance is included in Appendix B for each vehicle.
- ✓ All diesel heavy construction equipment did not idle for more than five minutes.
- Other actions were taken (describe).
- Construction equipment will employ electric motors when feasible.

4. Scheduled Compliance Activities

The following project compliance activities are scheduled to occur during the next two months:

Continued documentation and enforcement of Conditions of Certification AQ-SC2, the Ivanpah SEGS Air Quality Construction Mitigation Plan, AQ-SC3, Construction Fugitive Dust Control, AQ-SC4, Dust Plume Response, and AQ-SC5, Diesel-Fueled Engine Control as required.

5. Cumulative Listing of Approved Changes to Conditions of Certification

The following changes have been made to Conditions of Certification:

Condition	Revision	Date of revision
None		

6. Complaints and Compliance Actions (Compliance-6)

There were no formal air quality complaints, notices of violation, official warnings, or citations received on the Ivanpah SEGS project site during the November 2010 reporting period. Within Exhibit 1 (Compliance Documentation) of the Ivanpah SEGS Monthly Compliance Report, Mr. John Werfal, the Bureau Veritas Environmental Compliance representative for the Bureau of Land Management documented four items related to air quality in his daily activity log that are addressed below.

11/8/2010 & 11/9/2010 – Mr. Werfal informed BSE that better dust control measures were needed. The BSE AQCOMM requested that Bechtel have their workers increase the amount of dust suppression watering in front of their heavy equipment. Due to the high winds encountered on site on 11/9/2010, earthwork activities were adjusted to a slower pace to reduce dust generation. The issues on dust suppression have been resolved as of the close of this report.

11/15/2010 & 11/16/2010 – Discussions regarding the request for the installation of a temporary water line from Las Vegas Paving’s well began. The purpose of the line is to

reduce water truck traffic and to increase the rate at which water trucks can refill in order to better implement their dust suppression watering. This increased rate of watering will have a direct benefit to air quality management at the Ivanpah SEGS site.

6.1 Complaints

No complaints were received during the reporting period.

6.2 Notices of Violation

No notices of violation were received during the reporting period.

6.3 Official Warnings

No official warnings were received during the reporting period.

6.4 Citations

No citations were received during the reporting period.

Appendix A

Key Events List

KEY EVENTS LIST

PROJECT/POWER PLANT: Ivanpah SEGS

DOCKET #: 07-AFC-5C

BLM'S AUTHORIZED OFFICER: TOM HURSHMAN

COMPLIANCE PROJECT MANAGER: JOSEPH DOUGLAS

EVENT DESCRIPTION	DATE
Certification Date	09/22/2010
Obtain Site Control: ROW Grants Obtained	10/07/2010
Online Date	07/01/2013
POWER PLANT SITE ACTIVITIES	
Start Site Mobilization	10/04/2010
Start Ground Disturbance	10/08/2010
Start Grading	11/11/2010
Start Construction (Heliostat Bldg)	03/02/2011
Begin Pouring Major Foundation Concrete (SRSG Foundation)	02/07/2011
Begin Installation of Major Equipment (SRSG Load Module 1)	11/22/2011
Completion of Installation of Major Equipment (Turnover SRSG)	08/13/2012
First Roll of Steam Turbine	11/19/2012
Obtain Building Occupation Permit (Admin bldg)	12/15/2011
Start Commercial Operation	07/01/2013
Complete All Construction	04/30/2013
GENERATION TIE LINE ACTIVITIES	
Start Generation Tie Line Construction	TBD
Synchronization with Grid and Interconnection	TBD
Complete Generation Tie Line Construction	TBD
FUEL SUPPLY LINE ACTIVITIES	
Start Gas Pipeline Construction and Interconnection	08/29/11
Complete Gas Pipeline Construction	04/03/12
WATER SUPPLY LINE ACTIVITIES	
Start Water Supply Line Construction (Water Wells)	11/22/10
Complete Water Supply Line Construction (Tie-in UG Water Distribution)	03/12/12

Appendix B

Heavy Equipment List

Attachment B
Ivanpah SEGS Heavy Equipment Log

No.	Heavy Equipment Description (only applicable to off-road diesel engines \geq 50 bhp)	Contractor	Capacity (bhp)	Emission Tier (II, III, retrofit)	Rationale for Greater Than Tier III Emissions	Rationale for Inability to Retrofit Control Device	Removed From Site
1	420 (Backhoe) , No. 08-536, Model Year 2008; Cashman CAT	Crown Fence	89	Tier II	Tier III engine was not available. See letters from Crown Fence dated 12.9.2010 and Cashman CAT dated 12.8.2010.		
2	D6N (Dozer), No. 07-2001, Model Year 2008; Cashman CAT	Crown Fence	190	Tier III			
3	585 (Forklift), No. 06-952, Model Year 2006; Cashman CAT	Crown Fence	75	Tier II	Tier III engines was not available. See letters from Crown Fence dated 12.9.2010 and Cashman CAT dated12.8.2010.		
4	185 (Air Compressor), No. CE000563, Model Year 2007; Cashman CAT	Crown Fence	60	Tier III			
5	185 (Air Compressor), No. 07-1659, Model Year 2007; Cashman CAT	Crown Fence	60	Tier III			
6	185 (Air Compressor), No. CE000517, Model Year 2007; Cashman CAT	Crown Fence	60	Tier III			
7	TL1255 (Reachlift) No. 07-1905, Model Year 2007; Cashman CAT	Crown Fence	142	Tier III			
8	262 (Skid Steer) No. 07-1101, Model Year 2007; Cashman CAT	Crown Fence	74	Tier III			

Attachment B
Ivanpah SEGS Heavy Equipment Log

No.	Heavy Equipment Description (only applicable to off-road diesel engines \geq 50 bhp)	Contractor	Capacity (bhp)	Emission Tier (II, III, retrofit)	Rationale for Greater Than Tier III Emissions	Rationale for Inability to Retrofit Control Device	Removed From Site
9	Drill Rig, Jensen Boart Longyear Delta Base 102, Year 2008	Engeo	179	Tier III			
10	Drill Rig, Jensen EGT, MD700, Year 1999, engine replaced with a 2006 Perkins 1006C-E60T	Engeo	215	Tier II	Rigs are provided to them by Jensen. Engeo has requested a replacement that is Tier III, but currently none are available. Equipment supplier is part of the California program that allows him replace his rigs with higher Tier rigs, so all efforts are being made by the equipment supplier to have Tier III available. See ENGEO letter dated 12.8.2010 and its attachment letter from Jensen Drilling Company.		Removed from site week of Nov. 29
11	Drill Rig, Jet Drilling Registration 145158, Deutz model TCD914L06	Engeo	174	Tier III, CEPA registered Rig			Removed from site end of November
12	Loader, Kawasaki 95Z, Year 2002	LVP 305092	360	Does not meet Tier II			Up to date EPA Tier information could not be obtained for this piece of equipment and it was therefore promptly removed from the site. The contractor is currently looking for a Tier III replacement.
13	Scraper, Caterpillar 631G, Year 2006	LVP 325148	526	Tier III			
14	Scraper, Caterpillar 631G, Year 2006	LVP 325154	526	Tier III			

Attachment B
Ivanpah SEGS Heavy Equipment Log

No.	Heavy Equipment Description (only applicable to off-road diesel engines \geq 50 bhp)	Contractor	Capacity (bhp)	Emission Tier (II, III, retrofit)	Rationale for Greater Than Tier III Emissions	Rationale for Inability to Retrofit Control Device	Removed From Site
15	Scrapper, Caterpillar 631, Year 2006	LVP 325156	526	Tier III			
16	Scrapper, Caterpillar 631G, Year 2006	LVP 325157	526	Tier III			
17	Paddle wheel scrapper, Caterpillar, 623G, Year 2006	LVP 335113	330	Tier III			
18	Dozer, Caterpillar D10T, Year 2005	LVP 345150	646	Tier III			
19	Blade, Caterpillar 14H, Year 2006	LVP 375317	439	Tier II	An attempt was made to rent Tier III equipment, but none was available. (See letter from Cashman CAT dated 10.12.2010.) Note: When they are available, the switch will be made.		
20	Blade, Caterpillar 14H, Year 2000	LVP 375381	229	Tier II	An attempt was made to rent Tier III equipment, but none was available. (See letter from Cashman CAT dated 10.12.2010.) Note: When they are available, the switch will be made.		
21	Water Truck, MEGA MST8, Year 2005	LVP 425587	330	Tier III			
22	Water Truck, MEGA MST8, Year 2006	LVP 425605	330	Tier III			

Attachment B
Ivanpah SEGS Heavy Equipment Log

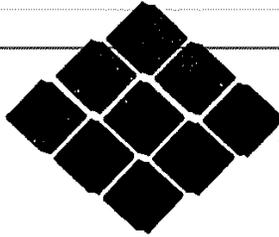
No.	Heavy Equipment Description (only applicable to off-road diesel engines \geq 50 bhp)	Contractor	Capacity (bhp)	Emission Tier (II, III, retrofit)	Rationale for Greater Than Tier III Emissions	Rationale for Inability to Retrofit Control Device	Removed From Site
23	Compactor, Caterpillar 825H, Year 2005	LVP 465681	354	Tier III			
24	Forklift, Caterpillar TH580B, Year 2005	LVP 516303	117.5	Tier II	Tier II was not available in November. A Tier III replacement has been found and will be available in December. See LVP letter dated 12.7.2010		Being replaced with a Tier III the week of December 6
25	Backhoe, Ford 655E	LVP 486177	92	Rating not available			Up to date EPA Tier information could not be obtained for this piece of equipment and it was therefore promptly removed from the site. The contractor is currently looking for a Tier III replacement.
28	Blade, Caterpillar 14H, Year 2005	LVP 375309	229	Tier II	An attempt was made to rent Tier III equipment, but none was available. (See letter from Cashman CAT dated 10.12.2010.) Note: When they are available, the switch will be made.		
29	Water Truck, Caterpillar 621, year 2004	LVP 425600	330	Tier II	Tier III was not initially available. See LVP letter dated 12.7.2010. A Tier III replacement has been found and is scheduled to come on site in December.		
30	Scraper, Caterpillar 631G, year 2006	LVP 325159	500	Tier III			
31	Dozer, Caterpillar D10T, year 2005	LVP 345151	579	Tier III			

Attachment B
Ivanpah SEGS Heavy Equipment Log

No.	Heavy Equipment Description (only applicable to off-road diesel engines \geq 50 bhp)	Contractor	Capacity (bhp)	Emission Tier (II, III, retrofit)	Rationale for Greater Than Tier III Emissions	Rationale for Inability to Retrofit Control Device	Removed From Site
32	SFC, Caterpillar CS563E, year 2004	LVP 455686	150	Tier II	A Tier III was not available. This water truck is only in use when the Tier III units are out for repair or if dust management requires, it is not used everyday. See LVP letter dated 12.7.2010 regarding this unit.		Will be replaced will Tier III if it comes available.
33	Compactor, Caterpillar 825H, year 2005	LVP 465678	354	Tier III			
34	Compactor, Dynapac CP271, year 2002	LVP 715242	99	Tier I	See LVP letter dated 12.7.2010 regarding this unit.		Equipment has been removed from the site and contractor has been notified that Tier III equipment is required on site.
35	Compactor, Dynapad CC501, year 1996	LVP 725291	210	Tier 1	See LVP letter dated 12.7.2010 regarding this unit.		Equipment has been removed from the site and contractor has been notified that Tier III equipment is required on site.
36	Compactor, Bomag BW213PD, year 2007 owned by Apco	LVP	158	Tier II	Tier III was not available. See LVP letter dated 12.7.2010 regarding this unit.		
37	Compactor, Dynapac CC722, year 2006, owned by Apco	LVP	228	Tier III			

Attachment B
Ivanpah SEGS Heavy Equipment Log

No.	Heavy Equipment Description (only applicable to off-road diesel engines \geq 50 bhp)	Contractor	Capacity (bhp)	Emission Tier (II, III, retrofit)	Rationale for Greater Than Tier III Emissions	Rationale for Inability to Retrofit Control Device	Removed From Site
38	Blade, No. 2ZK000168, Model Year 1995; Addison	Crown Fence	188	Tier 0	Tier III graders in this size range do not exist. A good faith effort was made to lease Tier II graders in the region. Tier II graders in the region were and continue to be unavailable. See Cashman CAT letter dated 10.21.2010.	Retrofit control device kits have not been developed for graders in this size range.	Not on site during the month of November. Included as a response to October Monthly Compliance Report comments. The site and contractor has been notified that Tier III equipment is required on site.
39	Blade, No. 2ZK04907, Model Year 2000; Addison	Crown Fence	188	Tier 1	Tier III graders in this size range do not exist. A good faith effort was made to lease Tier II graders in the region. Tier II graders in the region were and continue to be unavailable. See Cashman CAT letter dated 10.21.2010.	Retrofit control device kits have not been developed for graders in this size range.	Not on site during the month of November. Included as a response to October Monthly Compliance Report comments. The site and contractor has been notified that Tier III equipment is required on site.



CROWN FENCE

Since 1923

December 7, 2010

Bechtel Power Corporation
100302 Yates Well Road
Nipton, CA 92364

Attention: Terry Copeland, Bechtel Site Manager
Matt Carney, Site ES&H Manager
Ron Hertel, Subcontracts Manager

Subject: Ivanpah Solar Electric Generating Facility
Bechtel Job No. 25542
Subcontract No. 25542-230-HC1-CY10-00004
Diesel Fueled Engine Control (COC AQ-SC5)
Letter Number: 25542

Dear Messrs Copeland, Carney and Hertel,

The purpose of this letter is to satisfy compliance requirements governed by the Diesel Fueled Engine Control Condition of Certification AQ-SC5, as defined in the California Energy Commission Final Decision dated September 22, 2010.

Condition of Certification AQ-SC5 requires that a letter from the equipment owner be included in the Monthly Compliance Report (MCR) stipulating that diesel powered, off-road construction equipment with an engine capacity greater than 50 hp has been properly maintained (e.g., tuned to engine manufacturer's specification).

We, Crown Fence Company, hereby declare on behalf of Cashman Equipment, that the equipment added below and previously listed in the enclosed Attachment B Heavy Equipment Log has been properly maintained.

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition. Please submit any comments or questions via email to mwilliams@crownfence.com.

Sincerely,

Mike Williams
Branch Manager, Project manager
Crown Fence Co.
mwilliams@crownfence.com
(951) 479-4790 office
(562) 755-5786 cell

Corporate Office:
12118 Bloomfield Avenue
Santa Fe Springs, CA 90670
(562) 864-5177 Tel.
(562) 864-2529 Fax

San Diego Office:
6415 Marindustry Drive
San Diego, CA 92121
(858) 452-5590 Tel.
(858) 452-5596 Fax

Corona Office:
230 River Road
Corona, CA 92880
(951) 479-4790 Tel.
(951) 479-4796 Fax



State Contractor's License 1315

page 1

No.	Heavy Equipment Description (only applicable to off-road diesel engines \geq 50 bhp)	Contractor	Capacity (bhp)	Emission Tier (I, II, retrofit)	Rationale for Greater Than Tier III Emissions	Rationale for Inability to Retrofit Control Device	Removed From Site
1	420 (Backhoe), No. 08-536, Model Year 2008; Cashman CAT	Crown Fence	89	Tier II	Tier III engine not available in this backhoe model.		
2	D6N (Dozer), No. 07-2001, Model Year 2008; Cashman CAT	Crown Fence	190	Tier III			End of October
3	585 (Forklift), No. 06-952, Model Year 2006; Cashman CAT	Crown Fence	75	Tier II	Tier III engines are not available for forklift products		
4	185 (Air Compressor), No. CE000563, Model Year 2007; Cashman CAT	Crown Fence	60	Tier III			End of October
5	185 (Air Compressor), No. 07-1659, Model Year 2007; Cashman CAT	Crown Fence	60	Tier III			End of October
6	185 (Air Compressor), No. CE000517, Model Year 2007; Cashman CAT	Crown Fence	60	Tier III			End of October
7	TL1255 (Reachlift) No. 07-1905, Model Year 2007; Cashman CAT	Crown Fence	142	Tier III			
8	262 (Skid Steer) No. 07-1101, Model Year 2007; Cashman CAT	Crown Fence	74	Tier III			

page 2

No.	Heavy Equipment Description (only applicable to off-road diesel engines \geq 50 bhp)	Contractor	Capacity (bhp)	Emission Tier (I, III, retrofit)	Rationale for Greater Than Tier III Emissions	Rationale for Inability to Retrofit Control Device	Removed From Site
9	Blade, No. 2ZK000168, Model Year 1995; Addison	Crown Fence	188	Tier 0	Tier III graders in this size range do not exist. A good faith effort was made to lease Tier II graders in the region. Tier II graders in the region were and continue to be unavailable.	Retrofit control device kits have not been developed for graders in this size range.	End of October
10	Blade, No. 2ZK04907, Model Year 2000; Addison	Crown Fence	188	Tier I	Tier III graders in this size range do not exist. A good faith effort was made to lease Tier II graders in the region. Tier II graders in the region were and continue to be unavailable.	Retrofit control device kits have not been developed for graders in this size range.	End of October

page 3



Project No.
9034.000.000

December 8, 2010

Bechtel Power Corporation
100302 Yates Well Road
Nipton, CA 92364

Attention: Terry Copeland
Bechtel Site Manager

Matt Carney
Site ES&H Manager

Ron Hertel
Subcontracts Manager

Subject: Ivanpah Solar Electric Generating Facility
Bechtel Job No. 25542
Subcontract No. 25542-230-HC4-CY05-00009
Subsurface Investigation and Laboratory Testing

DIESEL FUELED ENGINE CONTROL (COC AQ-SC5)

Dear Messrs Copeland, Carney and Hertel:

The purpose of this letter is to satisfy compliance requirements governed by the Diesel Fueled Engine Control Condition of Certification AQ-SC5, as defined in the California Energy Commission Final Decision dated September 22, 2010.

Condition of Certification AQ-SC5 requires that a letter from the equipment owner be included in the Monthly Compliance Report (MCR) stipulating that diesel powered, off-road construction equipment with an engine capacity greater than 50 hp has been properly maintained (e.g., tuned to engine manufacturer's specification).

We, ENGEO Incorporated, hereby declare on behalf of Jensen Drilling Company (JDC) and Jet Drilling, Inc. (JDI) that the equipment previously listed in the enclosed Attachment B Heavy Equipment Log has been properly maintained.

Note, as of December 2, 2010, JDC's EGT Drill Rig (No. 12, Attachment B) is no longer on site. JDI's Drill Rig (No. 13, Attachment B) was on site from November 15 through 23, 2010, and is no longer on site.

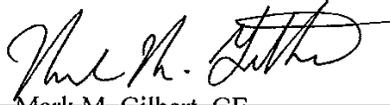
Also attached is a letter from JDC indicating their current equipment fleet status.

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition.
Please submit any comments or questions via email to plam@engeo.com

Sincerely,



Patrick S. Lam, CEG
Senior Geologist



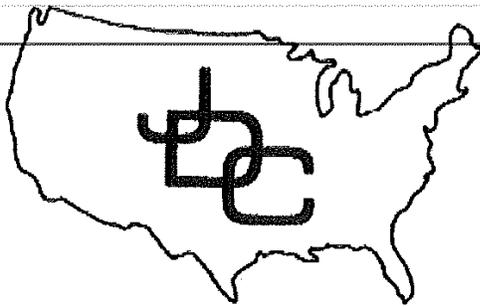
Mark M. Gilbert, GE
Principal

Attachments

page 2

No.	Heavy Equipment Description (only applicable to off-road diesel engines \geq 50 bhp)	Contractor	Capacity (bhp)	Emission Tier (II, III, retrofit)	Rationale for Greater Than Tier III Emissions	Rationale for Inability to Retrofit Control Device	Removed From Site
9	Drill Rig, Jensen Boart Longyear Delta Base 102, Year 2008	ENGEO	179	Tier III			
10	Drill Rig, Jensen EGT, MD700, Year 1999, engine replaced with a 2006 Perkins 1006C-E60T	ENGEO	215	Tier II	Rigs are provided to them by Jensen. ENGEO has requested a replacement that is Tier III, but currently none are available. Equipment supplier is part of the California program that allows him replace his rigs with higher Tier rigs, so all efforts are being made by the equipment supplier to have Tier III available.		December 2, 2010
11	Drill Rig, Jet Drilling Registration 145158, Deutz model TCD914L06	ENGEO	174	Tier III, CEPA registered Rig			November 23, 2010

page 3



JENSEN DRILLING COMPANY

1775 Henderson Avenue, Eugene, Oregon 97403-2399

(541) 726-7435 . Fax (541) 726-6140

E-mail: dennym@jensendrilling.com

Website: jensendrilling.com

December 8, 2010

Mr. Patrick Lam
ENGEO, Inc.
2010 Crow Canyon Place, Suite 250
San Ramon, CA 94583

Re: Ivanpah Geotechnical Investigation

Patrick,

In response to your question regarding Tier 3 motors, Jensen Drilling Company does not presently have other geotechnical drills which have Tier 3 motors. We are enrolled in the Air Resources Board program to upgrade our fleet to Tier 3 motors. Because we are classified as a medium horsepower company our initial compliance date is delayed until 2013.

Please let me know if you have other questions.

Regards,

Denny McBreen

page 4



Linda S. Adams
Secretary for
Environmental Protection

Air Resources Board

Mary D. Nichols, Chairman
1001 I Street • P.O. Box 2816
Sacramento, California 95812 • www.arb.ca.gov



Arnold Schwarzenegger
Governor

Statewide Portable Equipment Registration

Registration No: 145158

Legal Owner or Operator: Jet Drilling, Inc.

Mailing Address: 2656 Louis Ave.
Signal Hill, CA 90755

Engine Description:
Certified non-road portable internal combustion engine, compression ignition, Deutz,
model TCD914L06, Serial No: 8806435, rated at 174 bhp and diesel fueled.

U.S. EPA Engine Family Name: 8DZXL06.5074

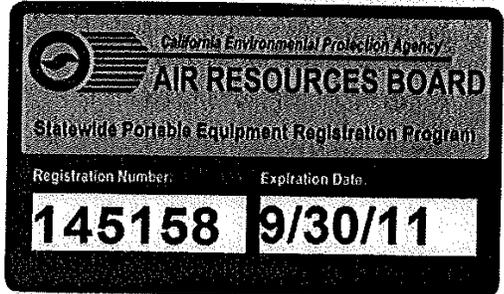
Conditions: see attached

Home District: South Coast Air Quality Management District

Engine Inspection Discount: No inspection discount claimed

Expiration Date: September 30, 2011

Jorge Fernandez
Chief, Program Evaluation Branch
Stationary Source Division



The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption.
For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>

California Environmental Protection Agency

Printed on Recycled Paper



December 6, 2010

Terry Copeland
Bechtel Site Manager
100302 Yates Well Road
Nipton, CA 92364

Matt Carney
Site ES&H Manager
100302 Yates Well Road
Nipton, CA 92364

Travis Wilson
Subcontracts Administrator
100302 Yates Well Road
Nipton, CA 92364

Subject: Ivanpah Solar Electric Generating Facility
Bechtel Job No. 25542
Reference: Diesel Fueled Engine Control (COC AQ-SC5)

Dear Messrs Copeland and Carney and Wilson,

This letter is intended to satisfy compliance requirements governed by the Diesel Fueled Engine Control Condition of Certification AQ-SC5, as defined in the California Energy Commission Final Decision dated September 22, 2010.

Condition of Certification AQ-SC5 requires that a letter from the equipment owner be included in the Monthly Compliance Report (MCR) stipulating that diesel powered, off-road construction equipment with an engine capacity greater than 50 hp has been properly maintained (e.g., tuned to engine manufacturer's specification).

We, Las Vegas Paving hereby declare that the equipment specified below has been properly maintained.

Equipment Details:

Equipment Type: Scraper
Equipment No.: 325148
Model Year/Tier Level: 631G 2006 Tier III
Owner: Las Vegas Paving
Engine Capacity (bhp): 526

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition. Please submit any comments or questions via email to jwitt@lasvegaspaving.com

Sincerely,
Jim Witt
Construction Manager (on behalf of)

Rick Ewing
Asset Manager
Las Vegas Paving
Rewing@lasvegaspaving.com
702-649-7637

December 6, 2010

Terry Copeland
Bechtel Site Manager
100302 Yates Well Road
Nipton, CA 92364

Matt Carney
Site ES&H Manager
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We, Las Vegas Paving hereby declare that the equipment specified below has been properly maintained.

Equipment Details:

Equipment Type: Scraper
Equipment No.: 325154
Model Year/Tier Level: 631G 2006 Tier III
Owner: Las Vegas Paving
Engine Capacity (bhp): 526

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition. Please submit any comments or questions via email to jwitt@lasvegaspaving.com

Sincerely,
Jim Witt
Construction Manager (on behalf of)

Rick Ewing
Asset Manager
Las Vegas Paving
Rewing@lasvegaspaving.com
702-649-7637

December 6, 2010

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Nipton, CA 92364

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Condition of Certification AQ-SC5 requires that a letter from the equipment owner be included in the Monthly Compliance Report (MCR) stipulating that diesel powered, off-road construction equipment with an engine capacity greater than 50 hp has been properly maintained (e.g., tuned to engine manufacturer's specification).

We, Las Vegas Paving hereby declare that the equipment specified below has been properly maintained.

Equipment Details:

Equipment Type: Scraper
Equipment No.: 325156
Model Year/Tier Level: 631G 2006 Tier III
Owner: Las Vegas Paving
Engine Capacity (bhp): 526

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition. Please submit any comments or questions via email to jwitt@lasvegaspaving.com

Sincerely,
Jim Witt
Construction Manager (on behalf of)

Rick Ewing
Asset Manager
Las Vegas Paving
Rewing@lasvegaspaving.com
702-649-7637

December 6, 2010

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Subject: Ivanpah Solar Electric Generating Facility
Bechtel Job No. 25542
Reference: Diesel Fueled Engine Control (COC AQ-SC5)

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We, Las Vegas Paving hereby declare that the equipment specified below has been properly maintained.

Equipment Details:

Equipment Type: Scraper
Equipment No.: 325157
Model Year/Tier Level: 631G 2006 Tier III
Owner: Las Vegas Paving
Engine Capacity (bhp): 526

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition. Please submit any comments or questions via email to jwitt@lasvegaspaving.com

Sincerely,
Jim Witt
Construction Manager (on behalf of)

Rick Ewing
Asset Manager
Las Vegas Paving
Rewing@lasvegaspaving.com
702-649-7637

December 6, 2010

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Condition of Certification AQ-SC5 requires that a letter from the equipment owner be included in the Monthly Compliance Report (MCR) stipulating that diesel powered, off-road construction equipment with an engine capacity greater than 50 hp has been properly maintained (e.g., tuned to engine manufacturer's specification).

We, Las Vegas Paving hereby declare that the equipment specified below has been properly maintained.

Equipment Details:

Equipment Type: Paddlewheel Scraper
Equipment No.: 335113
Model Year/Tier Level: 623G 2006 Tier III
Owner: Las Vegas Paving
Engine Capacity (bhp): 330

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition. Please submit any comments or questions via email to jwitt@lasvegaspaving.com

Sincerely,
Jim Witt
Construction Manager (on behalf of)

Rick Ewing
Asset Manager
Las Vegas Paving
Rewing@lasvegaspaving.com
702-649-7637

December 6, 2010

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Subcontracts Administrator
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Subject: Ivanpah Solar Electric Generating Facility
Bechtel Job No. 25542
Reference: Diesel Fueled Engine Control (COC AQ-SC5)

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Condition of Certification AQ-SC5 requires that a letter from the equipment owner be included in the Monthly Compliance Report (MCR) stipulating that diesel powered, off-road construction equipment with an engine capacity greater than 50 hp has been properly maintained (e.g., tuned to engine manufacturer's specification).

We, Las Vegas Paving hereby declare that the equipment specified below has been properly maintained.

Equipment Details:

Equipment Type: Caterpillar Dozer
Equipment No.: 345150
Model Year/Tier Level: D10T Dozer20052 Tier III
Owner: Las Vegas Paving
Engine Capacity (bhp): 646

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition. Please submit any comments or questions via email to jwitt@lasvegaspaving.com

Sincerely,
Jim Witt
Construction Manager (on behalf of)

Rick Ewing
Asset Manager
Las Vegas Paving
Rewing@lasvegaspaving.com
702-649-7637

December 6, 2010

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Travis Wilson
Subcontracts Administrator
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Nipton, CA 92364

Subject: Ivanpah Solar Electric Generating Facility
Bechtel Job No. 25542
Reference: Diesel Fueled Engine Control (COC AQ-SC5)

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Condition of Certification AQ-SC5 requires that a letter from the equipment owner be included in the Monthly Compliance Report (MCR) stipulating that diesel powered, off-road construction equipment with an engine capacity greater than 50 hp has been properly maintained (e.g., tuned to engine manufacturer's specification).

We, Las Vegas Paving hereby declare that the equipment specified below has been properly maintained.

Equipment Details:

Equipment Type: Caterpillar motor grader blade
Equipment No.: 375137
Model Year/Tier Level: 14H 2006 Tier II
Owner: Las Vegas Paving
Engine Capacity (bhp): 439

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition. Please submit any comments or questions via email to jwitt@lasvegaspaving.com

Sincerely,
Jim Witt
Construction Manager (on behalf of)

Rick Ewing
Asset Manager
Las Vegas Paving
Rewing@lasvegaspaving.com
702-649-7637

December 6, 2010

Terry Copeland
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Subject: Ivanpah Solar Electric Generating Facility
Bechtel Job No. 25542
Reference: Diesel Fueled Engine Control (COC AQ-SC5)

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Condition of Certification AQ-SC5 requires that a letter from the equipment owner be included in the Monthly Compliance Report (MCR) stipulating that diesel powered, off-road construction equipment with an engine capacity greater than 50 hp has been properly maintained (e.g., tuned to engine manufacturer's specification).

We, Las Vegas Paving hereby declare that the equipment specified below has been properly maintained.

Equipment Details:

Equipment Type: Caterpillar motor grader blade
Equipment No.: 375381
Model Year/Tier Level: 14H 2000 Tier II
Owner: Las Vegas Paving
Engine Capacity (bhp): 229

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition. Please submit any comments or questions via email to jwitt@lasvegaspaving.com

Sincerely,
Jim Witt
Construction Manager (on behalf of)

Rick Ewing
Asset Manager
Las Vegas Paving
Rewing@lasvegaspaving.com
702-649-7637

December 6, 2010

Terry Copeland
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Travis Wilson
Subcontracts Administrator
100302 Yates Well Road
Nipton, CA 92364

Subject: Ivanpah Solar Electric Generating Facility
Bechtel Job No. 25542
Reference: Diesel Fueled Engine Control (COC AQ-SC5)

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Condition of Certification AQ-SC5 requires that a letter from the equipment owner be included in the Monthly Compliance Report (MCR) stipulating that diesel powered, off-road construction equipment with an engine capacity greater than 50 hp has been properly maintained (e.g., tuned to engine manufacturer's specification).

We, Las Vegas Paving hereby declare that the equipment specified below has been properly maintained.

Equipment Details:

Equipment Type: MEGA
Equipment No.: 425587
Model Year/Tier Level: MST8 2005 Tier III
Owner: Las Vegas Paving
Engine Capacity (bhp): 330

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition. Please submit any comments or questions via email to jwitt@lasvegaspaving.com

Sincerely,
Jim Witt
Construction Manager (on behalf of)

Rick Ewing
Asset Manager
Las Vegas Paving
Rewing@lasvegaspaving.com
702-649-7637

December 6, 2010

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Travis Wilson
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Nipton, CA 92364

Subject: Ivanpah Solar Electric Generating Facility
Bechtel Job No. 25542
Reference: Diesel Fueled Engine Control (COC AQ-SC5)

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Condition of Certification AQ-SC5 requires that a letter from the equipment owner be included in the Monthly Compliance Report (MCR) stipulating that diesel powered, off-road construction equipment with an engine capacity greater than 50 hp has been properly maintained (e.g., tuned to engine manufacturer's specification).

We, Las Vegas Paving hereby declare that the equipment specified below has been properly maintained.

Equipment Details:

Equipment Type: MEGA
Equipment No.: 425605
Model Year/Tier Level: MST8 2006 Tier III
Owner: Las Vegas Paving
Engine Capacity (bhp): 330

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition. Please submit any comments or questions via email to jwitt@lasvegaspaving.com

Sincerely,
Jim Witt
Construction Manager (on behalf of)

Rick Ewing
Asset Manager
Las Vegas Paving
Rewing@lasvegaspaving.com
702-649-7637

Att B Hems
23-37

December 6, 2010

Terry Copeland
Bechtel Site Manager
100302 Yates Well Road
Nipton, CA 92364

Matt Carney
Site ES&H Manager
100302 Yates Well Road
Nipton, CA 92364

Travis Wilson
Subcontracts Administrator
100302 Yates Well Road
Nipton, CA 92364

Subject: Ivanpah Solar Electric Generating Facility
Bechtel Job No. 25542
Reference: Diesel Fueled Engine Control (COC AQ-SC5)

Dear Messrs Copeland and Carney and Wilson,

This letter is intended to satisfy compliance requirements governed by the Diesel Fueled Engine Control Condition of Certification AQ-SC5, as defined in the California Energy Commission Final Decision dated September 22, 2010.

Condition of Certification AQ-SC5 requires that a letter from the equipment owner be included in the Monthly Compliance Report (MCR) stipulating that diesel powered, off-road construction equipment with an engine capacity greater than 50 hp has been properly maintained (e.g., tuned to engine manufacturer's specification).

We, Las Vegas Paving hereby declare that the equipment specified on the attachment "B" below been properly maintained.

Equipment Details:

This letter is hereby intended to satisfy the aforementioned aspect of the AQSC-5 condition. Please submit any comments or questions via email to jwitt@lasvegaspaving.com

Sincerely,
Jim Witt
Construction Manager (on behalf of)

Rick Ewing
Asset Manager
Las Vegas Paving
Rewing@lasvegaspaving.com
702-649-7637

page 1

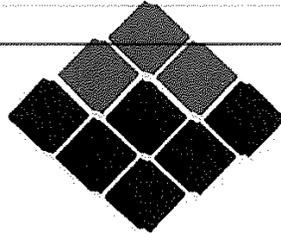
No.	Heavy Equipment Description (only applicable to off-road diesel engines \geq 50 bhp)	Contractor	Capacity (bhp)	Emission Tier (II, III, retrofit)	Rationale for Greater Than Tier III Emissions	Rationale for Inability to Retrofit Control Device	Removed From Site
23	Compactor, Caterpillar 825H, Year 2005	LVP 465681	354	Tier III			
24	Forklift, Caterpillar TH580B, Year 2005	LVP 516303	117.5	Tier II	Tier II was not available in November. A Tier III replacement has been found and will be available in December.		Being replaced with a Tier III the week of December 6
25	Backhoe, Ford 655E	LVP 486177	92	Rating not available			Removed from site the week of November 29
28	Blade, Caterpillar 14H, Year 2005	LVP 375309	229	Tier II	An attempt was made to rent Tier III equipment, but none was available. (See letter attached). Note: When they are available, the switch will be made.		
29	Water Truck, Caterpillar 621, year 2004	LVP 425600	330	Tier II	Tier III was not initially available. (see letter) A Tier III replacement has been found and is scheduled to come on site in December.		
30	Scraper, Caterpillar 631G, year 2006	LVP 325159	500	Tier III			
31	Dozer, Caterpillar D10T, year 2005	LVP 345151	579	Tier III			
32	SFC, Caterpillar CS563E, year 2004	LVP 455686	150	Tier II	A Tier III was not available. This water truck is only in use when the Tier III units are out for repair or if dust management requires, it is not used everyday. (see letter)		Will be replaced will Tier III if it comes available.

page 2

No.	Heavy Equipment Description (only applicable to off-road diesel engines \geq 50 bhp)	Contractor	Capacity (bhp)	Emission Tier (I, II, retrofit)	Rationale for Greater Than Tier III Emissions	Rationale for Inability to Retrofit Control Device	Removed From Site
33	Compactor, Caterpillar 825H, year 2005	LVP 465678	354	Tier III			
34	Compactor, Dynapac CP271, year 2002	LVP 715242	99	Tier I	See letter regarding this unit.		Scheduled for removal from site the week of December 6.
35	Compactor, Dynapad CC501, year 1996	LVP 725291	210	Tier I	See letter regarding this unit.		Scheduled for removal from site the week of December 6.
36	Compactor, Bomag BW213PD, year 2007 owned by Apco	LVP	158	Tier II	Tier III was not available. See letter regarding this unit.		
37	Compactor, Dynapac CC722, year 2006, owned by Apco	LVP	228	Tier III			

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Att B Hems 143



CROWN FENCE
Since 1923

December 9, 2010

Bechtel Power Corp.
5275 Westview Drive
Frederick, MD. 21703 USA

RE: Crown Fence Tier III Equipment Availability, Ivanpah Project

This letter is to certify that we have been unable to locate Tier III rated machinery to cover all of our needs. Currently Crown has two pieces of equipment on-site which are not rated Tier III, a CAT 420 Backhoe and a CAT 585 Rough Terrain Forklift. Attached to this letter is a copy of an E-mail from our supplier, Cashman Equipment, certifying that they do not have this equipment available with a Tier III rating.

Sincerely,

Mike Williams
Branch Manager, Project Manager
Crown Fence Co.
230 River Road
Corona, Ca. 92880
(951) 479-4790 office
(562) 755-5786 cell
mwilliams@crownfence.com

Corporate Office:
12118 Bloomfield Avenue
Santa Fe Springs, CA 90670
(562) 864-5177 Tel.
(562) 864-2529 Fax

San Diego Office:
6415 MarIndustry Drive
San Diego, CA 92121
(858) 452-5590 Tel.
(858) 452-5596 Fax

Corona Office:
230 River Road
Corona, CA 92880
(951) 479-4790 Tel.
(951) 479-4796 Fax

page 1



State Contractor's License 1315

Mike Williams

From: Dustin Hendrickson [Dustin_Hendrickson@cashmanequipment.com]
Sent: Wednesday, December 08, 2010 1:08 PM
To: 'MWILLIAMS@CROWNFENCE.COM'
Cc: 'dirtmoverjeff@yahoo.com'
Subject: Tier 3 Machines from Cashman
Mike,

Jeff Hayes has contacted me regarding Tier 3 machines for your jobsite at Bright Source. As of right now the only machine that we have on your jobsite is the 262 skid steer that is Tier 3. The other machines that you have out are all Tier 2 machines, and we do not have any Tier 3 machines available at this time that I could provide. Please let me know if you have any questions.

Thanks,



Dustin Hendrickson
Rental Coordinator

Cashman Equipment Rentals
3306 St. Rose Parkway
Henderson, NV 89052

Office: 702-566-4240
Fax: 702-566-4520

Dustin_Hendrickson@cashmanEquipment.com
www.cashmanequipment.com

12/8/2010

page 2

Att B Items 19
20
28



Cashman Equipment

3300 St. Rose Parkway
Henderson, Nevada 89052
800.937.2328 tel
702.633.4699 fax

Oct 12, 2010

Las Vegas Paving Corporation
4420 S. Decatur Blvd.
Las Vegas, NV 89103

Mr. Ewing:

Regarding your request to rent a 14M motor grader with a Tier III engine I am sorry to reply that we do not currently have any machines available.

I would be happy to contact you as soon as any become available.

Please keep Cashman Equipment in mind for all your equipment needs.

Sincerely,

Joel Bennett
Major Account Sales manager

General Engineering
Contractors
Since 1958

LAS VEGAS PAVING CORP.



4420 South Decatur Blvd.
Las Vegas, NV 89103-5803
(702)251-5800
(702)251-1968 Fax
www.LasVegasPaving.com

AH B Items 24
29
34
35
36
32

December 7, 2010

Bechtel Power Corporation
5275 Westview Dr.
Frederick, MD 21703

Attention: Travis T Wilson
Contract Administrator

Subject: Ivanpah Solar Electric Generating Facility

Subcontract No. 25542-230-HC3-CE01-00003
Site Preparation and Earthwork
Equipment Log

Mr. Wilson:

Please incorporate the following information into the equipment tier status scenario:

- 24 • Equipment No 516303 (Caterpillar TH580B Forklift) is no longer on site. It will be replaced with a tier III unit tomorrow. I will forward the equipment information as soon as it is received.
- 29 • Equipment No. 425600 Caterpillar Water Wagon is a tier II machine that was used to meet schedule demands of the project. A tier III replacement for this has been located within our company and is expected to be on site by 12/9/2010.
- 34 • The Dynapac Compactor Equipment No. 715242 CP271 is a tier I rubber tire roller that was used to meet schedule demands. Las Vegas Paving has not located a Tier III rubber tire roller in its fleet. A rubber tire roller has a specific application in the compaction of well – graded soils. We are looking for a rental Tier III replacement.
- 35 • The Dynapac CC501, Equipment No. 725291 is a steel wheel compaction and was used to meet schedule demands. It has been replaced with a new Tier III Dynapac compactor.
- 36 • The Bomag BW213PD compactor is a rented piece of equipment required by the contract for compaction. It is a specialized vibratory sheeps foot compactor utilized on embankment fills. Las Vegas Paving could not locate a Tier III machine in its fleet and an only a Tier II was available for rent. We are currently seeking a replacement.
- 32 • The Caterpillar CS563 compactor, Equipment No. 455686 was brought to the project to meet the schedule demands of the common area. It is no longer operating on the site and is only used in times of peak necessity. If a Tier III replacement comes available, we will replace it.

Sincerely,

James Witt Jr.
Construction Manager
Las Vegas Paving

AtB Items 38
39



Cashman Equipment

3300 St. Rose Parkway
Henderson, Nevada 89052
800.937.2326 tel
702.633.4699 fax

October 21, 2010

RE Motor Grader availability

Jeff Hayes
Crown Fence
12118 Bloomfield Avenue
Santa Fe Springs, CA 90670-4703

Jeff,

Thank you for the call earlier about renting two motor graders. Currently I am sold out and have none available for rent.

Thanks again for your business and opportunity.

Sincerely,

Don Lohouse
Rental Manager – Southern Nevada
Cashman Equipment Company
702.326.4235

Appendix C

Compliance Matrix—Pre-Construction

COMPLIANCE MATRIX--PRECONSTRUCTION

Condition Number	Description of requirement	Required Submittal Date	Expected or Actual Submittal Date	Compliance Status (not started, in progress, completed)	Date of Amendment (if applicable)
AQSC-1	Designate and retain an on-site AQCMM	60 days prior to start of ground disturbance	7/14/2010	Completed 7/14/2010	
AQSC-1	submit name, resume, qualification, and contact info for AQCMM and AQCMM delegates	60 days prior to start of ground disturbance	7/14/2010	Completed 10/7/2010	
AQSC-2	Submit AQCMP to BLM and CPM	60 days prior to start of ground disturbance	7/14/2010	Completed 10/7/2010	
AQSC-3	Post visible speed limit signs at construction site entrances	Prior to commencing construction	10/7/2010	Completed 10/20/2010	

Appendix D

Compliance Matrix--Construction

AIR QUALITY COMPLIANCE MATRIX-CONSTRUCTION			
Condition Number	Description of Requirement	Required Submittal Date	Compliance Status (not started, in progress, completed)
AQSC-3	Main access roads paved or stabilized using soil binders	Prior to initiating construction in the main power block area	Not started
AQSC-3	Delivery areas paved	Prior to taking initial deliveries	Not started
AQSC-3	Unpaved roads stabilized	After construction of road, prior to use	Not started
AQSC-3	Disturbed areas watered as needed	MONTHLY	Ongoing
AQSC-3	Inspect equipment vehicle tires prior to entering paved roadways and washed if necessary	MONTHLY	Ongoing
AQSC-3	Implement run-off control measures	MONTHLY	Ongoing
AQSC-3	Paved roads shall be swept daily on days when construction activity occurs	MONTHLY	Ongoing
AQSC-3	First 500 feet of any paved public roadway exiting the site swept as needed	MONTHLY	Ongoing
AQSC-3	Soil storage piles and disturbed areas covered or treated with dust suppressants	MONTHLY	Ongoing
AQSC-4	Increase application of dust plume mitigation if visible dust plumes observed	MONTHLY	Ongoing
AQSC-4	Implement additional dust plume mitigation if visible dust plumes are not eliminated within one hour of detection	MONTHLY	Ongoing
AQSC-4	Shutdown activity generating dust plume if dust plume not eliminated within one our of detection	MONTHLY	Ongoing
AQSC-5	Prepare list of heavy equipment used on-site during previous month	MONTHLY	Ongoing
AQSC-6	Prepare plan that identifies size and type of onsite onsite vehicle an dequipment fleet fo rmirror washing and facility maintenance	60 days prior to the start of commercial operation	Not started
AQSC-6	Submit fleet plan to CPM	60 days prior to the start of commercial operation	Not started
AQSC-7	Prepare Operations Dust Control Plan	60 days prior to the start of commercial operation	In Progress
AQSC-7	Submit Operations Dust Control Plan to BLM and CPM	60 days prior to the start of commercial operation	Not started
AQSC-8	Submit copies of ATCs and PTOs from District	15 days after receipt	Not started
AQSC-9	Submit Emergency Engine specifications to CPM	prior to engine installation	Not started

Appendix E

Vehicle Undercarriage Inspection Log

**Attachment E
Ivanpah SEGS Vehicle Undercarriage Inspection Log**

Inspection Date	Inspector Name	Company Name	Equipment Type	Equipment Number	Equipment Location	Notes
10/05/10	Doug Davis	Crown Fence	Air Compressor 185	07-1659	LVP/Bechtel Temp Laydown Yard	
10/05/10	Doug Davis	Crown Fence	Air Compressor 185	CEOO0517	LVP/Bechtel Temp Laydown Yard	
10/05/10	Doug Davis	Crown Fence	Air Compressor 185	CEOO0563	LVP/Bechtel Temp Laydown Yard	
10/05/10	Doug Davis	Crown Fence	CAT Blade 140H	353	LVP/Bechtel Temp Laydown Yard	
10/05/10	Doug Davis	Crown Fence	CAT Blade 140H	333	LVP/Bechtel Temp Laydown Yard	
10/05/10	Doug Davis	Crown Fence	Cashman Watertruck 4000 gal	CEOO1109	LVP/Bechtel Temp Laydown Yard	
10/05/10	Doug Davis	Crown Fence	Cashman D6	07-2001	LVP/Bechtel Temp Laydown Yard	
10/05/10	Doug Davis	LVP	CAT 140H	375381	LVP/Bechtel Temp Laydown Yard	
10/05/10	Doug Davis	LVP	Peterbilt Watertruck 4000 gal	162321	LVP/Bechtel Temp Laydown Yard	
10/05/10	Doug Davis	LVP	Kawasaki 952 Frontend Loader	305092	LVP/Bechtel Temp Laydown Yard	
10/08/10	Gilbert Goodlet	Hercules	CAT 330D	07-2052D	Entrance	
10/11/10	Doug Davis	Crown Fence	Crew Truck	Truck 135	Yates Well & Colosseum Road	Truck clean and sent to Crowns Yard
10/12/10	Doug Davis	LVP	Bobcat Trencher New Holland	284932	Yates Well & Colosseum Road	Trencher for Tortoise fence
10/13/10	Doug Davis	Crown Fence	Back Hoe 420E	28-536	Yates Well & Colosseum Road	Looks brand new
10/13/10	Doug Davis	Crown Fence	Forklift	07-1905	Yates Well & Colosseum Road	Very clean
10/14/10	Doug Davis	Crown Fence	262C CAT Skidsteer	07-1101	Yates Well & Colosseum Road	
10/22/10	Doug Davis	Crown Fence	Flatbed Truck	91	Yates Well & Colosseum Road	
10/26/10	Doug Davis	Jensen Drilling	Truck	F-102	Yates Well & Colosseum Road	All good
10/26/10	Doug Davis	Jensen Drilling	Drill Rig	V22 (DB102)	Yates Well & Colosseum Road	All good
10/26/10	Doug Davis	Jensen Drilling	Forklift	1070089	Yates Well & Colosseum Road	All good
10/27/10	Doug Davis	Jensen Drilling	Drill Rig	EGT	Colosseum Road	
11/08/10	Doug Davis	LVP	CAT 631G Scrapper	325159	Colosseum Road & Yates Well	Good to go.
11/08/10	Doug Davis	LVP	CAT 631G Scrapper	325156	Colosseum Road & Yates Well	Good to go.
11/08/10	Doug Davis	LVP	CAT 631G Scrapper	325154	Colosseum Road & Yates Well	Good to go.
11/08/10	Doug Davis	LVP	CAT 631G Scrapper	325157	Colosseum Road & Yates Well	Good to go.
11/08/10	Doug Davis	LVP	CAT 623G Paddlewheel	335113	Colosseum Road & Yates Well	Good to go.
11/16/10	Doug Davis	LVP	CAT D10T Dozer	34850	Colosseum Road & Yates Well	Clean, no problems and no leaks
11/16/10	Doug Davis	LVP	CAT 631G Scrapper	325148	Colosseum Road & Yates Well	Clean, no problems and no leaks
11/16/10	Doug Davis	LVP	CAT 1414 Blade	375381	Colosseum Road & Yates Well	Clean, no problems and no leaks
11/16/10	Doug Davis	LVP	CAT 1414 Blade	375317	Colosseum Road & Yates Well	Clean, no problems and no leaks
11/17/10	Doug Davis	LVP	Compaction Roller	CC722 Dynapac	Colosseum Road	Clean
11/17/10	Doug Davis	LVP	Compaction Roller	BW 213PDH-3 Bomag	Colosseum Road	Clean
11/17/10	Doug Davis	LVP	Scrapper	515G	Colosseum Road	Clean
11/17/10	Doug Davis	LVP	D10 Dozer	345151	Colosseum Road	Clean
11/17/10	Doug Davis	LVP	CAT CS-563E Roller	455686	Colosseum Road & Yates Well	Clean and no leaks. In good condition.
11/17/10	Doug Davis	LVP	CAT 14H Blade	375309	Colosseum Road & Yates Well	Clean and no leaks. In good condition.
11/17/10	Doug Davis	LVP	CAT 825H Sheepsfoot	465681	Colosseum Road & Yates Well	Clean and no leaks. In good condition.
11/29/10	Doug Davis	LVP	Dynapac CP-271 Roller	715242	Colosseum Road (LVP Staging area)	Clean
11/29/10	Doug Davis	LVP	Dynapac CC-501	725291	Colosseum Road (LVP Staging area)	Clean
12/06/10	Doug Davis	Bechtel	Excavator 330D (Pylon test)	07-2052	Laydown area Common East	Clean

Exhibit 5

Drainage, Erosion, and Sediment Control Summary Condition of Certification Soil & Water-1

Drainage, Erosion, and Sediment Control Summary

Best Management Practices

Silt fences are located on the down slope (east) side of the roadways and along the commons east, commons west, Ivanpah II power block, and Ivanpah I down slope perimeters. Additional silt fences to be added at a later date when work begins in Ivanpah II and Ivanpah III. Low impact design techniques have been implemented as described in the Ivanpah SEGS project description and the Drainage, Erosion, and Sediment Control Plan (DESCP). Vegetation removal has been limited to the Construction Logistics Area (including areas for water wells, trailers, parking lot, heliostat assembly building, and heliostat administration building), Colosseum Road, and the access road to the Ivanpah 1 power block.

Inspections

Inspections are made once per week, prior to a 50% or greater chance of rain, and after a significant rain event. For the rain events that occurred during the month of November, post rain event inspections were performed along all silt fencing. Fence checks were also performed by a field biologist post rain events.

Conclusion

During this reporting period, everything was found to be in compliance with the DESCP.

Visual Inspection Field Log

Risk Level 1, 2, 3 Visual Inspection Field Log Sheet						
Date and Time of Inspection: 11/15/2010 0600 – 1300				Report Date: 11/15/10		
Inspection Type:	<input checked="" type="checkbox"/> Weekly	<input type="checkbox"/> Before predicted rain	<input type="checkbox"/> During rain event	<input type="checkbox"/> Following qualifying rain event	<input type="checkbox"/> Contained stormwater release	<input type="checkbox"/> Quarterly non-stormwater
Site Information						
Construction Site Name: Ivenpah Solar Electric Generating Facility						
Construction stage and completed activities: Digging post holes, setting poles, and pouring concrete for posts in Commons West. Grubbing in Commons West. Water pipeline install along road to trailers. Drilling in Power block 2 and Ivenpah 3.					Approximate area of exposed site:	
Weather and Observations						
Date Rain Predicted to Occur: Saturday Nov. 20				Predicted % chance of rain: 10		
Estimate storm beginning: <hr style="width: 100%; border: none; border-top: 1px solid black; margin: 0;"/> (date and time)		Estimate storm duration: (hours)		Estimate time since last storm: 26 days (days or hours)		Rain gauge reading: (inches)
Observations: If yes identify location						
Odors	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Floating material	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Suspended Material	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Sheen	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Discolorations	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Turbidity	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Site Inspections						
Outfalls or BMPs Evaluated			Deficiencies Noted			
(add additional sheets or attached detailed BMP Inspection Checklists)						
Silt Fence			In good condition.			
Photos Taken:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Photo Reference IDs:			
Corrective Actions Identified (note if SWPPP/REAP change is needed)						
Inspector Information						
Inspector Name: Lorie Palkow				Inspector Title: Construction Environmental Lead		
Signature: <i>Lorie Palkow</i>					Date: <i>11/15/10</i>	

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Visual Inspection Field Log

Risk Level 1, 2, 3

Visual Inspection Field Log Sheet

Date and Time of Inspection: **11/20/2010 0600-1000 & 1200-1730** Report Date: **11/22/10**

Inspection Type:	<input type="checkbox"/> Weekly	<input type="checkbox"/> Before predicted rain	<input checked="" type="checkbox"/> During rain event	<input type="checkbox"/> Following qualifying rain event	<input type="checkbox"/> Contained stormwater release	<input type="checkbox"/> Quarterly non-stormwater
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Site Information

Construction Site Name: **Ivenpah Solar Electric Generating Facility**

Construction stage and completed activities: **Grubbing in commons east and drilling in power block 2 and Ivanpah 3.**

Approximate area of exposed site:

Weather and Observations

Date Rain Predicted to Occur:		Predicted % chance of rain:	
Estimate storm beginning: <u>No storm just light rain</u> (date and time)	Estimate storm duration: (hours)	Estimate time since last storm: 31 days (days or hours)	Rain gauge reading: 0.02 (inches)

Observations: If yes identify location

Odors	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Floating material	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Suspended Material	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Sheen	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Discolorations	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Turbidity	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Site Inspections

Outfalls or BMPs Evaluated

Deficiencies Noted

(add additional sheets or attached detailed BMP Inspection Checklists)

Silt Fence In good condition. No water running in washes. Rain not very heavy and was soaking in.

Photos Taken: Yes No Photo Reference IDs:

Corrective Actions Identified (note if SWPPP/REAP change is needed)

Inspector Information

Inspector Name: **Lorie Palkow** Inspector Title: **Construction Environmental Lead**

Signature: *Lorie Palkow* Date: *11/24/10*

Visual Inspection Field Log

Risk Level 1, 2, 3

Visual Inspection Field Log Sheet

Date and Time of Inspection: 11/24/2010 1230-1400				Report Date: 11/24/10		
Inspection Type:	<input checked="" type="checkbox"/> Weekly	<input type="checkbox"/> Before predicted rain	<input type="checkbox"/> During rain event	<input type="checkbox"/> Following qualifying rain event	<input type="checkbox"/> Contained stormwater release	<input type="checkbox"/> Quarterly non-stormwater
Site Information						
Construction Site Name: Ivenpah Solar Electric Generating Facility						
Construction stage and completed activities: Grubbing in Commons East and Commons West and fence install in Commons West					Approximate area of exposed site:	
Weather and Observations						
Date Rain Predicted to Occur: Sunday				Predicted % chance of rain: 35		
Estimate storm beginning: (date and time)		Estimate storm duration: (hours)		Estimate time since last storm: 31 days (days or hours)		Rain gauge reading: 0.00 (inches)
Observations: If yes identify location						
Odors	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Floating material	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Suspended Material	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Sheen	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Discolorations	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Turbidity	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Site Inspections						
Outfalls or BMPs Evaluated			Deficiencies Noted			
(add additional sheets or attached detailed BMP Inspection Checklists)						
Silt Fence			The fence is in good condition. The wind has blown dirt up against the fence in some areas, and it needs to be removed away from the fence.			
Photos Taken:			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Photo Reference IDs:	
Corrective Actions Identified (note if SWPPP/REAP change is needed)						
Inspector Information						
Inspector Name: Lorie Palkow				Inspector Title: Construction Environmental Lead		
Signature: <i>Lorie Palkow</i>					Date: <i>11/24/10</i>	

Visual Inspection Field Log

Risk Level 1, 2, 3

Visual Inspection Field Log Sheet

Date and Time of Inspection: 11/03/2010 0700 - 1130

Report Date: 11/03/10

Inspection Type:	<input checked="" type="checkbox"/> Weekly	<input type="checkbox"/> Before predicted rain	<input type="checkbox"/> During rain event	<input type="checkbox"/> Following qualifying rain event	<input type="checkbox"/> Contained stormwater release	<input type="checkbox"/> Quarterly non-stormwater
------------------	--	--	--	--	---	---

Site Information

Construction Site Name: **Ivenpah Solar Electric Generating Facility**

Construction stage and completed activities: **Ivenpah I sweeps. Grubbing in both commons areas, backfilling, and driving posts for security fence in commons east.**

Approximate area of exposed site:

Weather and Observations

Date Rain Predicted to Occur: **None for the next 10 days**

Predicted % chance of rain:

Estimate storm beginning:

Estimate storm duration:

Estimate time since last storm: **14 days**

Rain gauge reading:

(date and time)

(hours)

(days or hours)

(inches)

Observations: If yes identify location

Odors	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Floating material	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Suspended Material	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Sheen	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Discolorations	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Turbidity	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Site Inspections

Outfalls or BMPs Evaluated

Deficiencies Noted

(add additional sheets or attached detailed BMP Inspection Checklists)

Silt Fence

In good condition. Could not enter Ivanpah I due to Tortoise sweeps. Doug Davis of Bright source stated that he had looked at the silt fences there the day before and they were all fine.

Photos Taken:

Yes

No

Photo Reference IDs:

Corrective Actions Identified (note if SWPPP/REAP change is needed)

Inspector Information

Inspector Name: **Lorie Palkow**

Inspector Title: **Construction Environmental Lead**

Signature:

Lorie Palkow

Date:

11/3/10

Visual Inspection Field Log

Risk Level 1, 2, 3 Visual Inspection Field Log Sheet						
Date and Time of Inspection: 11/08/2010 0600 – 0730 & 1300 - 1400				Report Date: 11/08/10		
Inspection Type:	<input checked="" type="checkbox"/> Weekly	<input type="checkbox"/> Before predicted rain	<input type="checkbox"/> During rain event	<input type="checkbox"/> Following qualifying rain event	<input type="checkbox"/> Contained stormwater release	<input type="checkbox"/> Quarterly non-stormwater
Site Information						
Construction Site Name: Ivenpah Solar Electric Generating Facility						
Construction stage and completed activities: Pouring concrete for posts in Commons East. Drilling in Power Block 2. Starting water Pipeline.					Approximate area of exposed site:	
Weather and Observations						
Date Rain Predicted to Occur: None for the next 10 days				Predicted % chance of rain:		
Estimate storm beginning: <hr style="width: 100%; border: 0; border-top: 1px solid black; margin: 0;"/> (date and time)	Estimate storm duration: (hours)		Estimate time since last storm: 19 days (days or hours)	Rain gauge reading: (inches)		
Observations: If yes identify location						
Odors	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Floating material	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Suspended Material	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Sheen	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Discolorations	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Turbidity	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>				
Site Inspections						
Outfalls or BMPs Evaluated			Deficiencies Noted			
(add additional sheets or attached detailed BMP Inspection Checklists)						
Silt Fence			In good condition.			
Photos Taken:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Photo Reference IDs:			
Corrective Actions Identified (note if SWPPP/REAP change is needed)						
Inspector Information						
Inspector Name: Lorie Palkow				Inspector Title: Construction Environmental Lead		
Signature: <i>Lorie Palkow</i>					Date: <i>11/9/10</i>	

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BIOLOGICAL FENCE EVALUATION

Project Name: Ivanpah Solar Electric Generating System (ISEGS)

From: Field Biologist, Wayne S. Ball Sundance Biology, Inc.

Subject: Fence Evaluation for 23-Nov-10.

This document provides the latest survey results for all existing fence line on the project site.

After recent wind and rain, again there were no major problems detected with any of the fencing at this time. As well, there were no blowouts from water draining through the project site. The three-strand tension wire across the top of the tortoise fencing is in good shape along most all areas. Presently, 5 spots along the entire length of fence have any abnormalities. I feel that these spots consist of very minor details that could be easily addressed.

1. The northwest corner of power Blk. 2 has a short section of top-wire hanging.
UTMs 638440-3936037
2. New Coliseum Rd. 100 meters north of Equipment staging area. Broken wire.
UTMs 639582-3935206
3. Northwest corner of Common west. Broken wire. UTM 638645-3934993
4. Southeast Common west. Broken wire. UTM 638958-3934429
5. Common east - broken wire @ UTM 639328-3934436.

Once again, these very minor details are hardly worth mentioning and don't create any risks. With each passing rainstorm, those areas in and near streambeds will have to be monitored. It is also recommended that attention be given to the tortoise guards after future storms. If moving debris and sediments build up on the ends of the guards, it is surely possible to imagine an adult tortoise stepping around the fence. Along the length of the guards, excess debris may cause a tortoise to get stuck, rather than fall through by design. At this time, the guards are in working order. However, excess backfill is noticeable in portions of all tortoise guards. Though tortoise activity is at a minimum during this time of year, some foresight might go a long way. It is recommended that the excess rock and dirt be removed in preparation for future activity.

BIOLOGICAL FENCE EVALUATION

Project Name: Ivanpah Solar Electric Generating System (ISEGS)

From: Field Biologist, Wayne S. Ball Sundance Biology, Inc.

Subject: Fence Evaluation for 8-Nov-10.

This document provides the latest survey results for all existing fence line on the project site.

There were no major problems detected with any of the fencing at this time. There were no blowouts from water draining through the project site. The tortoise fencing has been installed correctly and all tortoise guards appear to be in good working order. The three-strand wire across the top of the tortoise fencing is in great shape along most all areas. Only three spots along the entire length of fence have any abnormalities present. I feel that these spots consist of very minor details that could be addressed.

1. The northwest corner of power Blk. 2 has a short section of top-wire hanging.
UTMs 638440-3936037
2. Near the northeast corner of Ivanpah 1 there is a section of top wire that is bent down and missing a wire clip. UTMs 640948-3934585
3. The south center of Ivanpah 1 has a small section of top wire that is above the surrounding posts a is missing clips. UTMs 640315-3932655

These very minor details are hardly worth mentioning and don't create any risks. With each passing rain storm, those areas in and near stream beds will have to be monitored. It is recommended that attention should be given to the tortoise guards as well after future storms. If moving debris and sediments build up on the ends of the guards, it is surely possible to imagine an adult tortoise stepping around the fence. There are no issues at this time.

Exhibit 6

Worker Environmental Awareness Program Summary Conditions of Certification BIO-6, CUL-5, and PAL-4

**Condition of Certification BIO-6, CUL-5, PAL-4
November 2010 Worker Environmental Awareness Program Summary**

The total number of workers trained under the Ivanpah SEGS Worker Environmental Awareness Program (WEAP) as of the end of November was 442. A total of 88 individuals were trained within the month of November. A training session was conducted off-site at the California Energy Commission on November 3, 2010 at the request of the Compliance Project Manager Joseph Douglas. All of these individuals and the companies they work for are listed in the attached WEAP Training Log. Workers were also provided a tortoise reminder card to hang from their rear view mirrors reminding them to look for tortoise underneath their vehicles prior to movement of vehicles or project equipment. A project contact card with the phone numbers of the Ivanpah Designated Biologist, Cultural Resource Specialist, and Paleontological Resource Specialist was also provided to all trainees. All 442 workers have signed the WEAP Training Acknowledgement Form and were provided a tortoise sticker to affix to their hard hat to indicate their completion of training. The WEAP Training Acknowledgement Forms for the month of November are attached.

Ivanpah SEGS WEAP Training Log

Last Name	First Name	Company	Date of WEAP Training	Sticker	Training Renewal Date
Hiss	Amy	CH2MHill	9/20/2010	yes	9/20/2011
Esposito	Brian	Native Resources	9/20/2010	yes	9/20/2011
Varner	Brian	Crown Fence	9/20/2010	yes	9/20/2011
Kindell	Chris	BrightSource Energy	9/20/2010	yes	9/20/2011
Fitzgerald	Danny	Las Vegas Paving	9/20/2010	yes	9/20/2011
Davis	Doug	BrightSource Energy	9/20/2010	yes	9/20/2011
Espitia	Evert	Crown Fence	9/20/2010	yes	9/20/2011
Fine	Fred	Bechtel Corp	9/20/2010	yes	9/20/2011
Spaulding	Geoffrey	CH2MHill	9/20/2010	yes	9/20/2011
Fairchild	Holly	SNEI	9/20/2010	NO	9/20/2011
Deason	Jeff	Native Resources	9/20/2010	yes	9/20/2011
Hayes	Jeff	Crown Fence	9/20/2010	yes	9/20/2011
Craig	Jill	Native Resources	9/20/2010	yes	9/20/2011
Witt	Jim	Las Vegas Paving	9/20/2010	yes	9/20/2011
Hereda	Jose	Crown Fence	9/20/2010	yes	9/20/2011
Pina	Jose	Native Resources	9/20/2010	yes	9/20/2011
Vargas	Jose	Crown Fence	9/20/2010	yes	9/20/2011
Blankemeyer	Kyle	Crown Fence	9/20/2010	yes	9/20/2011
Espinoza	Liango	Native Resources	9/20/2010	yes	9/20/2011
Lopez Fragoso	Margarito	Crown Fence	9/20/2010	yes	9/20/2011
Minic	Marija	SNEI	9/20/2010	yes	9/20/2011
Lukach	Michael	SNEI	9/20/2010	yes	9/20/2011
Pulido	Mitchell	Las Vegas Paving	9/20/2010	yes	9/20/2011
Schell	Paul	RBF	9/20/2010	yes	9/20/2011
Rodriguez	Petronilo	Crown Fence	9/20/2010	yes	9/20/2011
Allan	Rebecca	CH2MHill	9/20/2010	yes	9/20/2011
Thomas	Richard	Las Vegas Paving	9/20/2010	yes	9/20/2011
Blankemeyer	Tony	Crown Fence	9/20/2010	yes	9/20/2011
Wheaton	Tracie	BrightSource Energy	9/20/2010	yes	9/20/2011
Cruz	Tyler	Crown Fence	9/20/2010	yes	9/20/2011
Hernandez	Victor	Native Resources	9/20/2010	yes	9/20/2011
Zaragoza	Alfonzo	Union Local 783	9/30/2010	yes	9/30/2011
Chavez Jr.	Alfred	Crown Fence	9/30/2010	yes	9/30/2011
Olguin	Anthony	Union Local 783	9/30/2010	yes	9/30/2011
Yniguez	Basilio	Union Local 783	9/30/2010	yes	9/30/2011
Braden	Charles	Crown Fence	9/30/2010	yes	9/30/2011
Lanning	Chris	Union Local 783	9/30/2010	yes	9/30/2011
Scott	Christopher	Union Local 783	9/30/2010	yes	9/30/2011
Daugharty	Cullen	Union Local 783	9/30/2010	yes	9/30/2011
Pope	Curtis	Union Local 783	9/30/2010	yes	9/30/2011
Dominguez	Daniel	Union Local 783	9/30/2010	yes	9/30/2011
Bucci	Dino	Union Local 783	9/30/2010	yes	9/30/2011
Valles	Eddie	Union Local 783	9/30/2010	yes	9/30/2011

Ivanpah SEGS WEAP Training Log

Mendez	Edward	Union Local 783	9/30/2010	yes	9/30/2011
Morales	Elias	Union Local 783	9/30/2010	yes	9/30/2011
Amador	Fabiau	Union Local 783	9/30/2010	yes	9/30/2011
Zavala	Francisco	Union Local 783	9/30/2010	yes	9/30/2011
Adams Jr.	Fred	Union Local 783	9/30/2010	yes	9/30/2011
Hernandez	Gerardo	Union Local 783	9/30/2010	yes	9/30/2011
Hardy	Harmon	Union Local 783	9/30/2010	yes	9/30/2011
Gonzalez	Jaime	Union Local 783	9/30/2010	yes	9/30/2011
Martinez	Jaime	Union Local 783	9/30/2010	yes	9/30/2011
Windh	Jason	Crown Fence	9/30/2010	yes	9/30/2011
Chavez	Jeremy	Union Local 783	9/30/2010	yes	9/30/2011
Lomeli	Jose	Union Local 783	9/30/2010	yes	9/30/2011
Aviles	Juan	Union Local 783	9/30/2010	yes	9/30/2011
Ortiz	Juan	Union Local 783	9/30/2010	yes	9/30/2011
Vergara	Juan	Union Local 783	9/30/2010	yes	9/30/2011
Bertrand	Kevin	BrightSource Energy	9/30/2010	yes	9/30/2011
Passmore	Lonnie	Union Local 783	9/30/2010	yes	9/30/2011
Cline	Mark	Union Local 783	9/30/2010	yes	9/30/2011
Salazar	Mark	Union Local 783	9/30/2010	yes	9/30/2011
Carney	Matthew	Bechtel Corp	9/30/2010	yes	9/30/2011
Jiminez	Michael	Crown Fence	9/30/2010	yes	9/30/2011
Robles Jr.	Michael	Union Local 783	9/30/2010	yes	9/30/2011
Shell	Michael	Union Local 783	9/30/2010	yes	9/30/2011
Kung	Mike	Teamsters 166	9/30/2010	yes	9/30/2011
Tim	Miller	Union Local 783	9/30/2010	yes	9/30/2011
Durham	Nolan	Crown Fence	9/30/2010	yes	9/30/2011
Zebada	Oscar	Union Local 783	9/30/2010	yes	9/30/2011
Sipes	Randal	Union Local 783	9/30/2010	yes	9/30/2011
Mendoza	Raymond	Crown Fence	9/30/2010	yes	9/30/2011
Pelley	Robert	Crown Fence	9/30/2010	yes	9/30/2011
Stanley	Robert	Teamsters 166	9/30/2010	yes	9/30/2011
Yanez	Robert	Union Local 783	9/30/2010	yes	9/30/2011
Briones	Rod	SoCal Laborers Apprenticeship	9/30/2010	yes	9/30/2011
Briseno	Rudy	Crown Fence	9/30/2010	yes	9/30/2011
Castillo	Salvador	Union Local 783	9/30/2010	yes	9/30/2011
Zarazua	Salvador	Union Local 783	9/30/2010	yes	9/30/2011
Heminger	Samuel	Union Local 783	9/30/2010	yes	9/30/2011
Vuiller	Sebastian	Union Local 783	9/30/2010	yes	9/30/2011
Peralta	Thomas	Union Local 783	9/30/2010	yes	9/30/2011
Crum	Timothy	Union Local 783	9/30/2010	yes	9/30/2011
Hunter	Timothy	Union Local 783	9/30/2010	yes	9/30/2011
Andreasen	Warren	Union Local 783	9/30/2010	yes	9/30/2011
Laird	Bradley	Crown Fence	10/1/2010	yes	10/1/2011
Gates	Cecil	Crown Fence	10/1/2010	yes	10/1/2011
Haley	Chris	Addison Equipment	10/1/2010	yes	10/1/2011
Hoskins	Chris	Crown Fence	10/1/2010	yes	10/1/2011
Wilkins	Clarence	Crown Fence	10/1/2010	yes	10/1/2011

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Gates	Dalene	Crown Fence	10/1/2010	yes	10/1/2011
Quiroz	Dolores	Crown Fence	10/1/2010	yes	10/1/2011
Eustace	Doug	Crown Fence	10/1/2010	yes	10/1/2011
Fiedler	Eric	Crown Fence	10/1/2010	yes	10/1/2011
Rodriguez	Guillermo	Crown Fence	10/1/2010	yes	10/1/2011
Buenostro	Jaime	Crown Fence	10/1/2010	yes	10/1/2011
Fellabaum	Jason	Addison Equipment	10/1/2010	yes	10/1/2011
Ordonez-Escoba	Juan	Crown Fence	10/1/2010	yes	10/1/2011
Molina	Luis	Crown Fence	10/1/2010	yes	10/1/2011
Williams	Mike	Crown Fence	10/1/2010	yes	10/1/2011
Darling	Randy	Addison Equipment	10/1/2010	yes	10/1/2011
Fiedler	Richard	Crown Fence	10/1/2010	yes	10/1/2011
Ochoa	Roberto	Crown Fence	10/1/2010	yes	10/1/2011
Nance	Adam	Native Resources	10/6/2010	yes	10/6/2011
Depremesnil	Alain	Sundance Biology	10/6/2010	yes	10/6/2011
Scheib	Amanda	Sundance Biology	10/6/2010	yes	10/6/2011
Siegelstein	Andrew	BrightSource Energy	10/6/2010	yes	10/6/2011
Spenceley	Ashley	Sundance Biology	10/6/2010	yes	10/6/2011
Scurlock	Barrett	Knight and Leavitt	10/6/2010	yes	10/6/2011
Jones	Bill	Bureau Veritas	10/6/2010	yes	10/6/2011
Cancellieri	Bob	Sunstate	10/6/2010	yes	10/6/2011
Shaffer	Brandon	Las Vegas Paving	10/6/2010	yes	10/6/2011
Blossen	Bret	Sundance Biology	10/6/2010	yes	10/6/2011
Gironard	Brian	Trimble Navigation	10/6/2010	yes	10/6/2011
Boyer	Bruce	Bureau Veritas	10/6/2010	yes	10/6/2011
Hoffman	Bryan	Hercules Machinery	10/6/2010	yes	10/6/2011
Aguilar	Carlos	BrightSource Energy	10/6/2010	yes	10/6/2011
Halley	Cathy	Phoenix Ecological	10/6/2010	yes	10/6/2011
Llewellyn	Chandra	Sundance Biology	10/6/2010	yes	10/6/2011
Halley	Chris	Phoenix Ecological	10/6/2010	yes	10/6/2011
Podlorski	Chris	Trimble Navigation	10/6/2010	yes	10/6/2011
Stirling	Christine	Sundance Biology	10/6/2010	yes	10/6/2011
McClurg	Colden	Sundance Biology	10/6/2010	yes	10/6/2011
Mallon	Collin	Bechtel Corp	10/6/2010	yes	10/6/2011
Himmelweight	Craig	Sundance Biology	10/6/2010	yes	10/6/2011
Cogar	Crystal	Knight and Leavitt	10/6/2010	yes	10/6/2011
Hunt	Dan	Cashman Equipment	10/6/2010	yes	10/6/2011
Luis	Dan	Cashman Equipment	10/6/2010	yes	10/6/2011
Peressini	Dan	Las Vegas Paving	10/6/2010	yes	10/6/2011
George	Dave	Trimble Navigation	10/6/2010	yes	10/6/2011
Byram	David	Hercules Machinery	10/6/2010	yes	10/6/2011
Carns	David	Cashman Equipment	10/6/2010	yes	10/6/2011
Ekenstam	DeVon	Knight and Leavitt	10/6/2010	yes	10/6/2011
Lohouse	Donald	Cashman Equipment	10/6/2010	yes	10/6/2011
Pierce	Donald	Cashman Equipment	10/6/2010	yes	10/6/2011
Zylstra	Erin	Sundance Biology	10/6/2010	yes	10/6/2011
Aguilar	Francisco	Native Resources	10/6/2010	yes	10/6/2011

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Martinez	Gavino	Native Resources	10/6/2010	yes	10/6/2011
Drollinger	Gene	Knight and Leavitt	10/6/2010	yes	10/6/2011
Keyes Jr.	George	Sundance Biology	10/6/2010	yes	10/6/2011
Goodlett	Gilbert	Enviro Plus Consulting	10/6/2010	yes	10/6/2011
Jensen	Jack	Cashman Equipment	10/6/2010	yes	10/6/2011
Smith	Jacquelyn	Sundance Biology	10/6/2010	yes	10/6/2011
Torres	Jaime	Securitas	10/6/2010	yes	10/6/2011
Jordan	Jake	Native Resources	10/6/2010	yes	10/6/2011
Widdison	Jason	Cashman Equipment	10/6/2010	yes	10/6/2011
Meyers	Jay	Sundance Biology	10/6/2010	yes	10/6/2011
Phillips	Jeff	Las Vegas Paving	10/6/2010	yes	10/6/2011
Valentine	Jeff	Sundance Biology	10/6/2010	yes	10/6/2011
Dear	Jennie	Kiva Biological	10/6/2010	yes	10/6/2011
Monus	Jerry	Kiva Biological	10/6/2010	yes	10/6/2011
Reilly	Jessica	Sundance Biology	10/6/2010	yes	10/6/2011
Ivany	Jim	Bechtel Corp	10/6/2010	yes	10/6/2011
Rosso	John	Bureau Veritas	10/6/2010	yes	10/6/2011
Werfal	John	Bureau Veritas	10/6/2010	yes	10/6/2011
Holloway	Josh	Phoenix Ecological	10/6/2010	yes	10/6/2011
Morales	Juan	Native Resources	10/6/2010	yes	10/6/2011
Murphy	Kelly	Las Vegas Paving	10/6/2010	yes	10/6/2011
Lauer	Kenneth	Bechtel Corp	10/6/2010	yes	10/6/2011
Pavlisca	Laura	Sundance Biology	10/6/2010	yes	10/6/2011
Gainey	Leonard	Las Vegas Paving	10/6/2010	yes	10/6/2011
Backus	Leslie	Sundance Biology	10/6/2010	yes	10/6/2011
Rose	Lori	Sundance Biology	10/6/2010	yes	10/6/2011
Jones	Marilyn	Securitas	10/6/2010	yes	10/6/2011
Jones	Marilyn	Securitas	10/6/2010	yes	10/6/2011
Tobin	Mark	Bureau Veritas	10/6/2010	yes	10/6/2011
Wagner	Mark	Bechtel Corp	10/6/2010	yes	10/6/2011
Havellea	Max	Sundance Biology	10/6/2010	yes	10/6/2011
Stevens	Melinda	Knight and Leavitt	10/6/2010	yes	10/6/2011
Vaughn	Mercy	Sundance Biology	10/6/2010	yes	10/6/2011
Warren	Michele	Las Vegas Paving	10/6/2010	yes	10/6/2011
Gray	Mike	Cashman Equipment	10/6/2010	yes	10/6/2011
Powada	Mike	Cashman Equipment	10/6/2010	yes	10/6/2011
Traphagen	Myles	Sundance Biology	10/6/2010	yes	10/6/2011
Wiley	Nancy	Sundance Biology	10/6/2010	yes	10/6/2011
Jones	Nate	Sundance Biology	10/6/2010	yes	10/6/2011
Gerke	Nicholas	Cashman Equipment	10/6/2010	yes	10/6/2011
Stephens	Nicole	Sundance Biology	10/6/2010	yes	10/6/2011
Orr	Ophir	BrightSource Energy	10/6/2010	yes	10/6/2011
Lamb	Pat	Soil Tech	10/6/2010	yes	10/6/2011
Staszsky	Paul	Bechtel Corp	10/6/2010	yes	10/6/2011
Carr	Peter	Bechtel Corp	10/6/2010	yes	10/6/2011
Woodman	Peter	Kiva Biological	10/6/2010	yes	10/6/2011
Deschen	Phillip	Cashman Equipment	10/6/2010	yes	10/6/2011

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Day	Rainey	BrightSource Energy	10/6/2010	yes	10/6/2011
Crawford	Richard	Sundance Biology	10/6/2010	yes	10/6/2011
Griffith	Richard	Las Vegas Paving	10/6/2010	yes	10/6/2011
Regalado	Robert	Bechtel Corp	10/6/2010	yes	10/6/2011
Flint	Ronald	Securitas	10/6/2010	yes	10/6/2011
Calderon	Ruben	Native Resources	10/6/2010	yes	10/6/2011
Luna	Ruben	Native Resources	10/6/2010	yes	10/6/2011
Young	Ryan	Phoenix Ecological	10/6/2010	yes	10/6/2011
Cadenas	Santos	Securitas	10/6/2010	yes	10/6/2011
Regan	Sean	Las Vegas Paving	10/6/2010	yes	10/6/2011
Stevens	Sirena	Securitas	10/6/2010	yes	10/6/2011
Callahan	Steve	Cashman Equipment	10/6/2010	yes	10/6/2011
DeYoung	Steve	BrightSource Energy	10/6/2010	yes	10/6/2011
Hipson	Steve	Bechtel Corp	10/6/2010	yes	10/6/2011
Copeland	Terry	Bechtel Corp	10/6/2010	yes	10/6/2011
Vosler	Terry	Bureau Veritas	10/6/2010	yes	10/6/2011
Carter	Tex	Las Vegas Paving	10/6/2010	yes	10/6/2011
Jackson	Thomas	Phoenix Ecological	10/6/2010	yes	10/6/2011
Stewart	Todd	BrightSource Energy	10/6/2010	yes	10/6/2011
Bartels	Tom	Sundance Biology	10/6/2010	yes	10/6/2011
Dame	Tom	Hercules Machinery	10/6/2010	yes	10/6/2011
Frankert	Tom	Bechtel Corp	10/6/2010	yes	10/6/2011
Horniak	Tom	Bechtel Corp	10/6/2010	yes	10/6/2011
Scott	Tracy	Sundance Biology	10/6/2010	yes	10/6/2011
Hildreth	Troy	Las Vegas Paving	10/6/2010	yes	10/6/2011
Langi	Uinimila	Securitas	10/6/2010	yes	10/6/2011
Cudmore	Walt	Bechtel Corp	10/6/2010	yes	10/6/2011
Reynolds	Warren	Securitas	10/6/2010	yes	10/6/2011
Ball	Wayne	Sundance Biology	10/6/2010	yes	10/6/2011
Boarman	William	CSRC	10/6/2010	yes	10/6/2011
Speakman	William	Las Vegas Paving	10/6/2010	yes	10/6/2011
Weise	Bruce	Sundance Biology	10/7/2010	yes	10/7/2011
Helton	Clinton	CH2MHill	10/7/2010	yes	10/7/2011
Jundt	Jonathan	Cashman Equipment	10/7/2010	yes	10/7/2011
Rojansky	Michael	BrightSource II	10/8/2010	yes	10/8/2011
Varra	Antonio	Las Vegas Paving	10/11/2010	yes	10/11/2011
Edens	Ava	CH2MHill	10/11/2010	yes	10/11/2011
Nosratbakhsh	Brenden	Sundance Biology	10/11/2010	yes	10/11/2011
Porizek	Brett	Las Vegas Paving	10/11/2010	yes	10/11/2011
Weise	Bruce	Sundance Biology	10/11/2010	yes	10/11/2011
Furman	Cynthia	Sundance Biology	10/11/2010	yes	10/11/2011
Eytani	Danny	BrightSource Energy	10/11/2010	yes	10/11/2011
Prival	David	Sundance Biology	10/11/2010	yes	10/11/2011
Feldman	Emily	Geovision	10/11/2010	yes	10/11/2011
Baca	Gilbert	Bureau Veritas	10/11/2010	yes	10/11/2011
McKinstry	Greg	Halladay and Mimmack	10/11/2010	yes	10/11/2011
Lazo	Guillermo	Halladay and Mimmack	10/11/2010	yes	10/11/2011

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Daly	Imogen	Sundance Biology	10/11/2010	yes	10/11/2011
Borgmeyer	James	Sundance Biology	10/11/2010	yes	10/11/2011
Brouwer	Jennifer	Sundance Biology	10/11/2010	yes	10/11/2011
Botelho	Jennifer	ENGEO	10/11/2010	yes	10/11/2011
Sargent	Jim	IUOE Local 12	10/11/2010	yes	10/11/2011
Gray	Joe	ENGEO	10/11/2010	yes	10/11/2011
Barratt	Jonathan	Sundance Biology	10/11/2010	yes	10/11/2011
Molitor	Kirk	Las Vegas Paving	10/11/2010	yes	10/11/2011
Mjos	Leif	Sundance Biology	10/11/2010	yes	10/11/2011
Palkow	Lorie	Bechtel Corp	10/11/2010	yes	10/11/2011
Brouwer	Mark	Sundance Biology	10/11/2010	yes	10/11/2011
Zafra	Marvin	Las Vegas Paving	10/11/2010	yes	10/11/2011
Bassett	Mike	Sundance Biology	10/11/2010	yes	10/11/2011
Patel	Nimesh	Geotherm	10/11/2010	yes	10/11/2011
Lam	Patrick	ENGEO	10/11/2010	yes	10/11/2011
Frank	Paul	Sundance Biology	10/11/2010	yes	10/11/2011
Fuchs	Paul	Sundance Biology	10/11/2010	yes	10/11/2011
Barajas	Rafael	Las Vegas Paving	10/11/2010	yes	10/11/2011
Watkins	Randall	Knight and Leavitt	10/11/2010	yes	10/11/2011
Hertel	Ron	Bechtel Corp	10/11/2010	yes	10/11/2011
Corrat	Sabino	Las Vegas Paving	10/11/2010	yes	10/11/2011
Jabbour	Samuel	Bechtel Corp	10/11/2010	yes	10/11/2011
Hillard	Scott	SBE	10/11/2010	yes	10/11/2011
Dunbar	Steve	Las Vegas Paving	10/11/2010	yes	10/11/2011
Gonzalez	Victor	Geovision	10/11/2010	yes	10/11/2011
Middleton	Wendy	Sundance Biology	10/11/2010	yes	10/11/2011
Clark	William	CH2MHill	10/11/2010	yes	10/11/2011
Sessions	Adam	Bureau Veritas	10/18/2010	yes	10/18/2011
Wiley	Bob	Teamsters 166	10/18/2010	yes	10/18/2011
O'Brien	Brenden	Sundance Biology	10/18/2010	yes	10/18/2011
Parker	Cary	IUOE Local 12	10/18/2010	yes	10/18/2011
Dahle	Chuck	Las Vegas Paving	10/18/2010	yes	10/18/2011
Rubinfeld	Corey	Kiva Biological	10/18/2010	yes	10/18/2011
Welch	Cory	Davis Glass	10/18/2010	yes	10/18/2011
Barth	Dale	Davis Glass	10/18/2010	yes	10/18/2011
Boskovich	Dale	Construction Testing	10/18/2010	yes	10/18/2011
Ewens	Daniel	CH2MHill	10/18/2010	yes	10/18/2011
Petersen	Harry	Construction Testing	10/18/2010	yes	10/18/2011
Jones	Jeremy	Las Vegas Paving	10/18/2010	yes	10/18/2011
Buffington	Jim	Sundance Biology	10/18/2010	yes	10/18/2011
Nolan	Joan	Bechtel Corp	10/18/2010	yes	10/18/2011
Steinem	John	Bechtel Corp	10/18/2010	yes	10/18/2011
Duarte	Jose	Teamsters 166	10/18/2010	yes	10/18/2011
Douglas	Joseph	CEC	10/18/2010	yes	10/18/2011
Griffithe	Kenneth	Bureau Veritas	10/18/2010	yes	10/18/2011
Foley	Kristine	Sundance Biology	10/18/2010	yes	10/18/2011
Kruger	Mark	Addison Equipment	10/18/2010	yes	10/18/2011

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Ansari	Odin	Bureau Veritas	10/18/2010	yes	10/18/2011
Jorden	Rob	Davis Glass	10/18/2010	yes	10/18/2011
Hughes	Robert	Bechtel Corp	10/18/2010	yes	10/18/2011
Wilson	Travis	Bechtel Corp	10/18/2010	yes	10/18/2011
Mach	Alex	Kiva Biological	10/21/2010	yes	10/21/2011
Steely	Alex	Kiva Biological	10/21/2010	yes	10/21/2011
Wiley	Amy	Sundance Biology	10/21/2010	yes	10/21/2011
Firmin	Andy	ENGEO	10/21/2010	yes	10/21/2011
Abesassis	Clark	Las Vegas Paving	10/21/2010	yes	10/21/2011
Cisco	Fred	Bechtel Corp	10/21/2010	yes	10/21/2011
Jewell	George	Jensen Drilling	10/21/2010	yes	10/21/2011
Morrison	John	Jensen Drilling	10/21/2010	yes	10/21/2011
Casey	Joseph	Jensen Drilling	10/21/2010	yes	10/21/2011
Holmes	Ken	Sundance Biology	10/21/2010	yes	10/21/2011
Walsh	Kevin	Cerba Environmental	10/21/2010	yes	10/21/2011
Habersaat	Leland	Jensen Drilling	10/21/2010	yes	10/21/2011
Jenkins	Mat	Las Vegas Paving	10/21/2010	yes	10/21/2011
Cottingham	Paul	ENGEO	10/21/2010	yes	10/21/2011
Wirthlin	Pierce	Las Vegas Paving	10/21/2010	yes	10/21/2011
Tibbits	Robert	Las Vegas Paving	10/21/2010	yes	10/21/2011
Alvarado	Roberto	Jensen Drilling	10/21/2010	yes	10/21/2011
Holbek	Suren	Sundance Biology	10/21/2010	yes	10/21/2011
Minzer	Toby	Las Vegas Paving	10/21/2010	yes	10/21/2011
Keller	Aaron	Kiva Biological	10/25/2010	yes	10/25/2011
Skromme	Arik	Kiva Biological	10/25/2010	yes	10/25/2011
Hanley	Brenda	Sundance Biology	10/25/2010	yes	10/25/2011
Hatton	Christina	Kiva Biological	10/25/2010	yes	10/25/2011
Mitchell	Corey	Sundance Biology	10/25/2010	yes	10/25/2011
Bennett	Courtney	Sundance Biology	10/25/2010	yes	10/25/2011
Copeland	Don	Sundance Biology	10/25/2010	yes	10/25/2011
Mohlmann	Jake	Sundance Biology	10/25/2010	yes	10/25/2011
Llamas	Joe	Las Vegas Paving	10/25/2010	yes	10/25/2011
Cassidy	John	Bechtel Corp	10/25/2010	yes	10/25/2011
Hillman	John	Sundance Biology	10/25/2010	yes	10/25/2011
Stewart	John	Las Vegas Paving	10/25/2010	yes	10/25/2011
Murphy	Joshua	Las Vegas Paving	10/25/2010	yes	10/25/2011
Lucas	Kevin	Kiva Biological	10/25/2010	yes	10/25/2011
Dutcher	Kristen	Kiva Biological	10/25/2010	yes	10/25/2011
Sally	Mike	Kiva Biological	10/25/2010	yes	10/25/2011
Livingston	Patrick	Sundance Biology	10/25/2010	yes	10/25/2011
Snapp	Randy	Bechtel Corp	10/25/2010	yes	10/25/2011
McGuire	Raphael	Kiva Biological	10/25/2010	yes	10/25/2011
Jackson	Rosemary	Kiva Biological	10/25/2010	yes	10/25/2011
Boisvert	Sally	Kiva Biological	10/25/2010	yes	10/25/2011
Hanner	Sara	Kiva Biological	10/25/2010	yes	10/25/2011
Magart	Teresa	Kiva Biological	10/25/2010	yes	10/25/2011
Hockin	Tim	Kiva Biological	10/25/2010	yes	10/25/2011

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Koich	Tim	Las Vegas Paving	10/25/2010	yes	10/25/2011
Rasmussen	Tony	Kiva Biological	10/25/2010	yes	10/25/2011
Taylor	Tracy	Sundance Biology	10/25/2010	yes	10/25/2011
Ose	Trevor	Kiva Biological	10/25/2010	yes	10/25/2011
Davis	Adrian	Las Vegas Paving	10/26/2010	yes	10/26/2011
Manger	Art	Teamsters 166	10/26/2010	yes	10/26/2011
Reed	Carly	Teamsters 166	10/26/2010	yes	10/26/2011
Ragland	Christopher	Las Vegas Paving	10/26/2010	yes	10/26/2011
Morwood	David	Las Vegas Paving	10/26/2010	yes	10/26/2011
Martin	Frank	Las Vegas Paving	10/26/2010	yes	10/26/2011
Dressler	Fred	Las Vegas Paving	10/26/2010	yes	10/26/2011
Villareal	Gabriel	Ironworkers 433	10/26/2010	yes	10/26/2011
Copeland	Ian	Bechtel Corp	10/26/2010	yes	10/26/2011
Charles Jr	Joe	Las Vegas Paving	10/26/2010	yes	10/26/2011
Brown	John	IBEW 477	10/26/2010	yes	10/26/2011
Acosta	Johnny	Las Vegas Paving	10/26/2010	yes	10/26/2011
Platten	Kenneth	Teamsters 166	10/26/2010	yes	10/26/2011
Butler	Mark	Las Vegas Paving	10/26/2010	yes	10/26/2011
Bird	Matt	Bechtel Corp	10/26/2010	yes	10/26/2011
Jacobs	Nickolaus	BrightSource Energy	10/26/2010	yes	10/26/2011
Yarbery	Norman	CTS	10/26/2010	yes	10/26/2011
Brown	Perry	IBEW 477	10/26/2010	yes	10/26/2011
Dienes	Robert	Las Vegas Paving	10/26/2010	yes	10/26/2011
Goins	Robert	Teamsters 166	10/26/2010	yes	10/26/2011
Nairn	Rowan	Bechtel Corp	10/26/2010	yes	10/26/2011
Hester	Ryan	Las Vegas Paving	10/26/2010	yes	10/26/2011
Hurshman	Tom	BLM	10/26/2010	yes	10/26/2011
Carter	Charles	Geovision	11/1/2010	yes	11/1/2011
Campos	David	Bechtel Corp	11/1/2010	yes	11/1/2011
Cardenas	Gloriella	CH2MHill	11/1/2010	yes	11/1/2011
Daniel	Gregory	Bechtel Corp	11/1/2010	yes	11/1/2011
Arnold	Jennifer	Bechtel Corp	11/1/2010	yes	11/1/2011
Breedlove	Ron	Bechtel Corp	11/1/2010	yes	11/1/2011
Wagmmode	Shriram	Bechtel Corp	11/1/2010	yes	11/1/2011
Duarte	Vincent	Crown Fence	11/1/2010	yes	11/1/2011
Martine	Andrea	California Energy Com	11/3/2010	yes	11/3/2011
Munger	Brenner	California Energy Com	11/3/2010	yes	11/3/2011
Watson	Carol	California Energy Com	11/3/2010	yes	11/3/2011
Dennis	Chris	California Energy Com	11/3/2010	yes	11/3/2011
Marxen	Chris	California Energy Com	11/3/2010	yes	11/3/2011
Snow	Christina	California Energy Com	11/3/2010	yes	11/3/2011
Stora	Christine	California Energy Com	11/3/2010	yes	11/3/2011
Flores	David	California Energy Com	11/3/2010	yes	11/3/2011
Bright	Erin	California Energy Com	11/3/2010	yes	11/3/2011
Lesh	Geoff	California Energy Com	11/3/2010	yes	11/3/2011
Bemis	Gerry	California Energy Com	11/3/2010	yes	11/3/2011
Adams	James	California Energy Com	11/3/2010	yes	11/3/2011

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Carrier	John	CH2MHill	11/3/2010	yes	11/3/2011
Nishida	Joy	California Energy Com	11/3/2010	yes	11/3/2011
Forrest	Kathleen	California Energy Com	11/3/2010	yes	11/3/2011
Finn	Mary	CH2MHill	11/3/2010	yes	11/3/2011
Marshall	Paul	California Energy Com	11/3/2010	yes	11/3/2011
York	Rick	California Energy Com	11/3/2010	yes	11/3/2011
Khoshmashrab	Shahab	California Energy Com	11/3/2010	yes	11/3/2011
Tie	Bruce	CTS	11/8/2010	yes	11/8/2011
Walls	Butch	EDM Services	11/8/2010	yes	11/8/2011
Sanderson	Deanna	Sundance Biology	11/8/2010	yes	11/8/2011
Post	G.L.	Bechtel Corp	11/8/2010	yes	11/8/2011
Smith	Keith	Crown Fence	11/8/2010	yes	11/8/2011
Phagoo	Kris	Bechtel Corp	11/8/2010	yes	11/8/2011
Bobinecz	Michael	BrightSource Energy	11/8/2010	yes	11/8/2011
McGehee	Tim	Elemental Energy	11/8/2010	yes	11/8/2011
Lamont	William	Securitas	11/8/2010	yes	11/8/2011
Rylen	Alex	Securitas	11/15/2010	yes	11/15/2011
Sander	Alex	Securitas	11/15/2010	yes	11/15/2011
Hernandez	Bravio	Securitas	11/15/2010	yes	11/15/2011
Ravotta	Christian	Bechtel Corp	11/15/2010	yes	11/15/2011
Branker	Cory	Bureau Veritas	11/15/2010	yes	11/15/2011
Sikorski	David	Las Vegas Paving	11/15/2010	yes	11/15/2011
Boleman	Eyal	BrightSource	11/15/2010	yes	11/15/2011
Fallon	Guy, Sr.	Las Vegas Paving	11/15/2010	yes	11/15/2011
Burnett	Harvey	Securitas	11/15/2010	yes	11/15/2011
White	Jacob	ENGEO	11/15/2010	yes	11/15/2011
Witt	Jessica	Bechtel Corp	11/15/2010	yes	11/15/2011
Kline	Jim	Jet Drill	11/15/2010	yes	11/15/2011
Jenkins	Joshua	Las Vegas Paving	11/15/2010	yes	11/15/2011
Coleman	Mark	Bechtel Corp	11/15/2010	yes	11/15/2011
Diaz	Michael	Securitas	11/15/2010	yes	11/15/2011
Thomas	Michael	Securitas	11/15/2010	yes	11/15/2011
Turner	Mike	ENGEO	11/15/2010	yes	11/15/2011
Boone	Morris	Bechtel Corp	11/15/2010	yes	11/15/2011
Steller	Robert	Geovision	11/15/2010	yes	11/15/2011
Davis	Stephen	Las Vegas Paving	11/15/2010	yes	11/15/2011
Koning	Thomas	Securitas	11/15/2010	yes	11/15/2011
Brown	Tim	Las Vegas Paving	11/15/2010	yes	11/15/2011
Lacey	Tom	Las Vegas Paving	11/15/2010	yes	11/15/2011
Taylor	Tommy	Jet Drill	11/15/2010	yes	11/15/2011
Dynbar	Troy	Bechtel Corp	11/15/2010	yes	11/15/2011
Eylat	Udi	BrightSource	11/15/2010	yes	11/15/2011
Perez	Alfonso, Jr.	Layne Christensen	11/22/2010	yes	11/22/2011
Witrigo	Antonio	Layne Christensen	11/22/2010	yes	11/22/2011
Thomas	Edison	Layne Christensen	11/22/2010	yes	11/22/2011
Amezquita	Hugo	Layne Christensen	11/22/2010	yes	11/22/2011
Guzman	Juan	Layne Christensen	11/22/2010	yes	11/22/2011

Ivanpah SEGS WEAP Training Log

Weddle	Justin	Las Vegas Paving	11/22/2010	yes	11/22/2011
Enriquez	Luis	Layne Christensen	11/22/2010	yes	11/22/2011
Quinonos	Marting	Layne Christensen	11/22/2010	yes	11/22/2011
Shelley	Mike	Bechtel Corp	11/22/2010	yes	11/22/2011
Canning	Shawn	Las Vegas Paving	11/22/2010	yes	11/22/2011
Turnnsey	Thomas	Bureau Veritas	11/22/2010	yes	11/22/2011
Olveda	Victor	Layne Christensen	11/22/2010	yes	11/22/2011
Bautista	Brian	Layne Christensen Christensen	11/29/2010	yes	11/29/2011
Fong	Carlos	Las Vegas Paving	11/29/2010	yes	11/29/2011
Chhetri	Dilip	Bechtel Corp	11/29/2010	yes	11/29/2011
Grace	Gary	Layne Christensen Christensen	11/29/2010	yes	11/29/2011
Rollins	Glen	Las Vegas Paving	11/29/2010	yes	11/29/2011
Gragson	Grant	Las Vegas Paving	11/29/2010	yes	11/29/2011
Hernandez	Jorge	Layne Christensen Christensen	11/29/2010	yes	11/29/2011
Alba	Jose	Layne Christensen Christensen	11/29/2010	yes	11/29/2011
Serna	Jose	Layne Christensen Christensen	11/29/2010	yes	11/29/2011
Evans	Mark	Layne Christensen Christensen	11/29/2010	yes	11/29/2011
Fanning	Mark	Las Vegas Paving	11/29/2010	yes	11/29/2011
Vallejo	Ruben	Las Vegas Paving	11/29/2010	yes	11/29/2011
Hanke	Steve	Barney's Hole Digging	11/29/2010	yes	11/29/2011
Hammell	Troy	Barney's Hole Digging	11/29/2010	yes	11/29/2011
Layland	William	Las Vegas Paving	11/29/2010	yes	11/29/2011
Dan	Amit	BrightSource	12/6/2010	yes	12/6/2011
Arguesta	Asucar	40 Roosters	12/6/2010	yes	12/6/2011
Fertall	Corey	Quick Set	12/6/2010	yes	12/6/2011
Tate	Dan	Caterpillar	12/6/2010	yes	12/6/2011
Ayers	David	Quick Set	12/6/2010	yes	12/6/2011
Molind	David	Tony's Mobile Homes	12/6/2010	yes	12/6/2011
Swetky	David	Cashman Equipment	12/6/2010	yes	12/6/2011
Vica	Donald	Cashman Equipment	12/6/2010	yes	12/6/2011
Hendrickson	Dustin	Cashman Equipment	12/6/2010	yes	12/6/2011
Benton	Earl	Cashman Equipment	12/6/2010	yes	12/6/2011
Prado	Fodasio	40 Roosters	12/6/2010	yes	12/6/2011
Martin	Gregg	Bechtel Corp	12/6/2010	yes	12/6/2011
Nunez	Guadalupe	40 Roosters	12/6/2010	yes	12/6/2011
Huss	Hagai	BrightSource	12/6/2010	yes	12/6/2011
Harris	Iain	Bechtel Corp	12/6/2010	yes	12/6/2011
Wouilse	Jack	Bechtel Corp	12/6/2010	yes	12/6/2011
Dominguez	Jacob	Las Vegas Paving	12/6/2010	yes	12/6/2011
Grubbs	James	Layne Christensen	12/6/2010	yes	12/6/2011
Lambort	Jeff	Cashman Equipment	12/6/2010	yes	12/6/2011
Hyers	Jerry	Cashman Equipment	12/6/2010	yes	12/6/2011
Gibson	Jim	Caterpillar	12/6/2010	yes	12/6/2011
Gagliamello	Joe	Bechtel Corp	12/6/2010	yes	12/6/2011
Ville	Jose	Tony's Mobile Homes	12/6/2010	yes	12/6/2011
Yost	Kenny	Quick Set	12/6/2010	yes	12/6/2011
Argueta	Lewis	Tony's Mobile Homes	12/6/2010	yes	12/6/2011

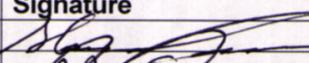
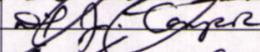
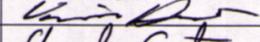
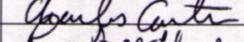
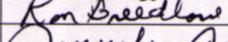
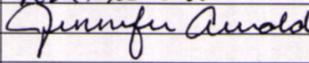
Ivanpah SEGS WEAP Training Log

Gutierrez	Manuel	40 Roosters	12/6/2010	yes	12/6/2011
McGuire	Megan	Bechtel Corp	12/6/2010	yes	12/6/2011
Larson	Mike	Bechtel Corp	12/6/2010	yes	12/6/2011
Shell	Mike	Las Vegas Paving	12/6/2010	yes	12/6/2011
Snider	Randy	Cashman Equipment	12/6/2010	yes	12/6/2011
Argueta	Robert	Scottman	12/6/2010	yes	12/6/2011
Airhart	Ronnie	Bechtel Corp	12/6/2010	yes	12/6/2011
Jahnke	Scott	Bechtel Corp	12/6/2010	yes	12/6/2011
Melder	Scott	Cashman Equipment	12/6/2010	yes	12/6/2011
Argueta	Sergio	40 Roosters	12/6/2010	yes	12/6/2011
Keyes Jr.	Stephen	BrightSource	12/6/2010	yes	12/6/2011
Goodle	Theron	Quick Set	12/6/2010	yes	12/6/2011
Willams	Timothy	BrightSource	12/6/2010	yes	12/6/2011

Certification of Completion of Worker Environmental Awareness Program Training

Ivanpah Solar Electric Generating System Project, San Bernardino County, California
 Biological Resources, Cultural Resources and Paleontological Resources
 Education Program Verification
 All Onsite Employees

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No.	Employee Name	Company	Signature	Date
1.	Gloriella Cardenas	CH2M HILL		11/1/10
2.	DAVID J. CAMPOS	BECHTEL		11/1/10
3.	GREGORY M. DANIEL	BECHTEL		11/01/10
4.	SHRIRAM WAGHMUDE	BECHTEL		11/01/10
5.	Vincent Duarte	Crown Fence		11/01/10
6.	Charles Carter	GEUVISION		11/1/10
7.	Ron Breedlove	Bechtel		11/1/10
8.	Jennifer Arnold	Bechtel		11/1/10
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Trainer: _____ Signature: _____ Date: ____/____/____

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No.	Employee Name	Company	Signature	Date
1.	WILLIAM LA MONT	SECURITAS	<i>William La Mont</i>	11-8-10
2.	KRIS PHAGOO	BECHTEL	<i>K Phagoo</i>	11-8-10
3.	Deanna Sanderson	Sundance	<i>Deanna Sanderson</i>	11/8/2010
4.	MICHAEL BOBINECZ	BRIGHTSOURCE	<i>Michael Bobinecz</i>	11/8/2010
5.	T.L. BUTCH WALLS	EDM SERVICES, INC	<i>T. L. Butch Walls</i>	11/8/2010
6.	G.L. POST	BECHTEL	<i>G. L. Post</i>	11/8/2010
7.	KEITH SMITH	CROWN	<i>Keith Smith</i>	11-8-10
8.	BRUCE TIE	C.T.S.	<i>Bruce Tie</i>	11/08/2010
9.	TIM McGEHEE	ELEMENTAL ENERGY	<i>Tim McGehee</i>	11/8/10
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Trainer: *D. Davis* Signature: *[Signature]* Date: 11/8/10

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No.	Employee Name	Company	Signature	Date
1.	Jessica Witt	Bechtel	[Signature]	11/15/2010
2.	CHRISTIAN RAVOTTA	BECHTEL	[Signature]	11/15/2010
3.	MARK COLEMAN	BECHTEL	[Signature]	11/15/10
4.	TROY DUNBAR	BECHTEL	[Signature]	11/15/10
5.	MORRIS BOONS	BECHTEL	[Signature]	11/15/10
6.	MIKE TURNER	ENGEO	[Signature]	11/15/10
7.	Jacob White	ENGEO	[Signature]	11-15-10
8.	Stephen Davis	LVP	[Signature]	11-15-10
9.	Tim Brown	LVP	[Signature]	11-15-10
10.	Jim Kline	JET DRILLING	[Signature]	11-15-10
11.	Eyal Coleman	Bright Source	[Signature]	11-15-10
12.	Udi Eyal	Brightsource	[Signature]	11-15-10
13.	DAVID SIKORSKI	LVPaving	[Signature]	11-15-10
14.	GUY F. ALLY SR.	LVPAVING	[Signature]	11-15-10
15.	Tom Lacey	LVPAVING	[Signature]	11-15-10
16.	Tommy Taylor	Jet Drill	[Signature]	11-15-10
17.	HARVEY BURNETT	SECURITAS	[Signature]	11-15-10
18.	Alex Rylen	SECURITAS	[Signature]	11-15-10
19.	Bradley S. Hernandez	Securitas	[Signature]	11-15-10
20.	Thomas J. Konning	SECURITAS	[Signature]	11-15-10
21.	Michael Diaz	Securitas	[Signature]	11-15-10
22.	Joshua Jenkins	Las Vegas Paving	[Signature]	11/15/2010
23.	ALEXSANDER	Solutia	[Signature]	11-15-10
24.	ROBERT STELLER	GEOSVISION	[Signature]	11-15-10
25.	Cory Branker	Bureau Veritas	[Signature]	11-15-10
26.	MICHAEL THOMAS	SECURITAS	[Signature]	11-15-10
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Trainer: DDAVIS

Signature: [Signature]

Date: 11/15/10

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No.	Employee Name	Company	Signature	Date
1.	Martin E. Quiñones	Layne		11/22/10
2.	Victor Olveda	Layne		11-22-10
3.	Justin Weddle	LVP		11-22-10
4.	Shawn Canning	LVP	Shawn Canning	11/22/10
5.	Mike Shelley	Bechtel	M. Shelley	11/22/10
6.	Luis Enriquez	Layne Christensen Co.		11/22/10
7.	Hugo Amezcua	Layne	Hugo Amezcua	11/22/10
8.	Alfonso Preciado	LAYNE		11/22/10
9.	EDISON THOMAS	LAYNE CHRS	Edison Thomas	11-22-10
10.	Juan Guzman	Layne Christensen	Juan Guzman	11-22-2010
11.	Antonio Witrigo	Layne		11-22-10
12.	THOMAS TURANSKY	BURBANK VERIDAYS		11/22/10
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Trainer: D. Davis Signature: Date: 11/22/10

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No.	Employee Name	Company	Signature	Date
1.	Carlos F. Fong	Las Vegas Pav.	<i>Carlos F. Fong</i>	11-29-10
2.	Ruben F. Vallejo	Las Vegas Pav.	<i>Ruben Vallejo</i>	11-29-10
3.	GRANT GRAGSON	LVP	<i>Grant Gragson</i>	11-29-10
4.	L. GLEN ROLLINS	LVP	<i>L. Glen Rollins</i>	11-29-10
5.	MARK T. FANNING	L.V.P.	<i>Mark T. Fanning</i>	11-29-2010
6.	William LAYLAND	L.V.P.	<i>William Layland</i>	11-29-10
7.	TROY HAMMOLL	Barney's	<i>Troy Hammoll</i>	11-29-10
8.	Steve Hanke	Barney's	<i>Steve Hanke</i>	11-29-10
9.	DILIP CHHETRI	BECHTEL POWER	<i>Dilip Chhetri</i>	11-29-10
10.	JOSE ALBA.	LAYNE	<i>Jose Alba</i>	11-29-10
11.	Jorge Hernandez	Layne	<i>Jorge Hernandez</i>	11-29-10
12.	JOSE SERNA	LAYNE	<i>Jose Serna</i>	11/29/10
13.	MARK R. EVANS	Layne Christensen	<i>Mark R. Evans</i>	11-29-10
14.	BRIAN BAPTISTA	LAYNE CHRISTENSEN	<i>Brian Baptista</i>	11-29-10
15.	Gary Grace	Layne Christensen	<i>Gary Grace</i>	11/29/10
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Trainer: *Jana A. Wheaton* Signature: *Jana A. Wheaton* Date: 11 / 29 / 2010

*Primm Valley Golf Club
11/29/2010*

Exhibit 7

Cultural Resources Monthly Monitoring Report Condition of Certification CUL-7

Monthly Report of Cultural Resources Monitoring Activities for Ivanpah Solar Electric Generating System for November 2010; COC CUL-7

Prepared For: John Carrier/ISEGS Project Manager
Prepared By: Clint Helton/ISEGS CRS
Reporting For Period: November 2010

This report covers cultural resources monitoring activities at the Ivanpah Solar Electric Generating System for the month of November 2010, as required by Conditions of Certification CUL-7.

Personnel Active in Cultural Monitoring This Period

Dan Ewers and Gloriella Cardenas were active this month.

Monitoring and Associated Activities This Period

Following the CEC's October 7 memorandum, full-time cultural resources monitoring was conducted beginning on October 8 and concluding on November 4. The CEC released the CRM on November 4 at approximately 12:30 PM. Monitoring included observation of all earth-moving activities at the project site including perimeter tortoise fence installation and all clearing and grubbing activities.

Soils observed were comprised of alluvial silts and sands with inclusions comprised of small gravels to large cobbles.

Cultural Resources Discoveries This Period

No new cultural resource discoveries were made during this month.

Anticipated Changes in the Next Period

The CRS and CRMs will remain on-call to respond to discoveries if they occur.

Comments, Issues or Concerns

None.

Exhibit 8

Paleontological Resources Monthly Compliance Report Condition of Certification PAL-5

Monthly Report of Paleontological Resources Compliance Activities for Ivanpah Solar Electric Generating System for November 2010; COC PAL-5

Prepared For: Tracie Wheaton, BrightSource Energy
John Carrier, CH2M HILL
Prepared By: Geof Spaulding/ISEGS PRS
Reporting For Period: November, 2010

This report covers paleontological resources compliance activities at the Ivanpah Solar Electric Generating System for the month ending November 30, 2010, as required by Conditions of Certification PAL-4 and PAL-5.

Training Conducted This Month

Construction personnel continue to receive the CEC approved Paleontological Resources Awareness Module of Worker Environmental Awareness Training prior to working on this project (COC PAL-4).

Personnel Active in Paleontological Monitoring This Period

Dr. Geof Spaulding, Project Paleontological Resources Specialist (PRS)

Monitoring and Associated Activities This Period

Section 3.1 of the Ivanpah SEGS Paleontological Resources Monitoring and Mitigation Plan (PRMMP) states the following:

“The project area possesses low paleontological sensitivity. Therefore, this PRMMP will not be implemented unless and until the PRS determines that potentially fossiliferous sediments may be, or have been encountered by construction equipment, pursuant to the condition stipulated in COCs PAL-3 and PAL-4.

The exception to the above is the administration of the paleontological resources awareness module of the Worker Environmental Awareness Program training (WEAP...”, which is administered to all construction personnel.

As a result of the low paleontological resources sensitivity of the project site, no paleontological resources monitoring has been conducted.

The PRS has spot monitored construction activity since kick-off to confirm the low paleontological sensitivity of the development area.

Anticipated Changes in the Next Period

No changes are anticipated at this time.

Comments, Issues or Concerns

None.

Exhibit 9

Biological Resources Monthly Monitoring Report Conditions of Certification BIO-2, BIO-7, BIO-8, BIO-11, BIO-16, BIO-18, & BIO-21

Condition of Certification BIO-18 Summary – November, 2010

Within the month of November, 2010, botanical fencing, salvage, and relocation activities occurred within Ivanpah 1 and the Construction Logistics Area. Plant crews were dispatched in front of all ground-disturbing activities to ensure plants were protected as outlined in the Ivanpah SEGS Special-status Plant Protection and Monitoring Plan, Revision 1 (Revised Protection Plan). Plant crews were accompanied by biological monitors. Tortoise biologists that had not previously been trained in the sight identification of special-status plants were provided training on the identification of all five special-status plants. Desert tortoise monitors GPSd special-status plants observed during the tortoise surveys and provided these data to the botanical team. Plants salvaged were relocated by the botany team

Mojave Milkweed *Asclepias nyctaginifolia* (ASNY), Rusby's Desert Mallow *Sphaeralcea rusbyi* var. *eremicola* (SPRUER), and Desert Pincushion *Coryphantha chlorantha* (COCH) localities were protected by exclusionary fencing in accordance with the Revised Protection Plan. These exclusion areas are referred to in accordance with BIO-18 as Special-status Plant Protection Areas (SSPPAs). A photograph depicting a typical SSPPA and the materials used during fencing was included with the October compliance report.

In Ivanpah 1, fences were installed in November around special status plant individuals. These areas are designated as SSPPAs. Two signs have been attached to each SSPPA fence stating "Sensitive Resource Area Keep Out." These signs also have the phone number of the Ivanpah Designated Biologist included on them.

Mojave Milkweed *Asclepias nyctaginifolia* (ASNY), Parish's Club Cholla *Grusonia [Opuntia] parishii* (GRPA), and Desert Pincushion *Coryphantha chlorantha* (COCH) individuals not fenced were salvaged and relocated as described in the Revised Ivanpah SEGS Special-status Plant Protection and Monitoring Plan.

The Special-status Plant Remedial Action Plan was submitted in November. In compliance with the Remedial Action Plan, seed collection took place for Mojave Milkweed *Asclepias nyctaginifolia* (ASNY) and Desert Pincushion *Coryphantha chlorantha* (COCH) if viable seed was found. Fall is not the optimum seed collection period for these species, but in a few cases, small amounts of seed were found in dried pods (Mojave Milkweed), and in mature fruits that remained on the plant (Desert Pincushion).

Root propagules at locations where Mojave Milkweed plants were salvaged were also obtained. Some of these propagules were potted and will be cared for by the native plant restoration contractor to determine if this species can be effectively propagated from root cuttings. A few of the cuttings were also planted onsite, in the RPTA, to determine if this species can also be re-grown onsite from root material. New growth will be assessed in the spring, when plants emerge from dormancy.

Salvaged plants that were planted onsite in the RPTA and plants taken to the native plant nursery were inspected by the botanical team on November 30, 2010. Plants were generally in good condition and did not appear water-stressed. Recent freezing conditions have resulted in die-back of Mojave milkweed, consistent with the lifecycle of this plant in native populations.

Future botanical activities for the next 90 days include:

- Continued confirmations of special-status plant locations cited by tortoise biologists during tortoise monitoring
- Salvage of special-status plants identified by those crews
- Continued Quality Assurance/ Quality Control (QA/QC) of plant data
- Prepare as-built plans showing the location of all special-status plants fenced or salvaged to date
- Monitoring and maintenance including irrigation of any newly installed plants within the RPTA. Irrigation is not planned for all plants during the cold winter months but will commence on an as-needed basis if temperatures increase and plants appear stressed
- Monitoring and maintenance of all exclusionary fencing (SSPPAs) within the Project
- Monitoring of all fenced plant localities within the Ivanpah Unit 1 solar field

SUNDANCE BIOLOGY, INC.

179 NIBLICK RD., PMB 272, PASO ROBLES, CA 93446
MERCY VAUGHN • 928-380-5507 • MANYDOGS10@AOL.COM
STEPHEN BOLAND • 928-380-8850 • SPBOLAND@AOL.COM

KIVA BIOLOGICAL CONSULTING

PO BOX 1210, INYOKERN, CA 93527
PETER WOODMAN • 760-861-3961 • KIVABIO@AOL.COM

Attention: John L. Carrier, J.D.

December 7, 2010

Program Manager

CH2M HILL

2485 Natomas Park Dr. #600

Sacramento, CA 95833-2937

Office: 916-286-0224

Fax: 916-614-3424

Cell: 916-996-9349

REGARDING: ISEGS Monthly Compliance Report, Nov 11-Dec7, 2010.

As per the California Energy Commission (CEC) Ivanpah Solar Electric Generating System ISEGS Commission Decision, CEC-800-2010-004 CMF, the following monthly report briefly summarizes compliance with biological resource activities during the period from November 11 through December 7, 2010 on construction of the ISEGS in Ivanpah Valley, San Bernardino County, California.

Construction on ISEGS began on October 8, 2010. Within the tortoise-proof fencing erected along Colosseum Road and Project features: Common Area East, Common Area West, Ivanpah 1, and Power Block 2 and the associated Access Road surveys for desert tortoise, badger, Gila monster, and burrowing owl are ongoing immediately in front of construction for all surface disturbances. These areas have all been cleared for desert tortoise, but as specified in the Biological Opinion, surveys immediately in front of vegetation clearance are ongoing in case one was inadvertently missed during tortoise clearance surveys. Areas cleared of vegetation inside tortoise-proof fencing include: new Colloseum Road the western two-thirds of Common Area East (Figure 1), the well site and switch yard within Common Area West, the Access Road to Power Block 1 within Ivanpah 1, and the Access Road to Power Block 2 within Ivanpah 2.

Outside of the tortoise-proof fencing geotechnical drilling has been completed in Ivanpah 2 and is ongoing in Ivanpah 3. Biological monitors are escorting all crews working outside the tortoise-proof fencing at all times. Seven new desert tortoises have been observed in Ivanpah 3 during monitoring of geotechnical drilling. All of these tortoises are in burrows and have entered brumation. None have been marked or telemetered. Two of these tortoises are juveniles. All seven are checked on periodically to ensure they have not exited their burrows.

In compliance with the Husbandry Plan developed for the ISEGS Project, desert tortoises moved to the quarantine pens within the Common West Area are monitored daily. The area around the pens is inspected for any sign of predators on a daily basis. All tortoises within the quarantine pens have entered brumation.

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A total of 15 biologists remain working on the Project site in order to monitor compliance with all construction mitigation measures. Only those biologists authorized to handle desert tortoises by all Agencies granting authorization have handled desert tortoises.

No new burrowing owl sign was observed. No badgers or gila monsters have been observed. No avian or bat species have been killed during construction activities. Sensitive plant surveys and transplanting is ongoing.

In addition to the seven unmarked tortoises in Ivanpah 3, we currently are keeping track of 44 marked tortoises, 23 of which are in the quarantine pens. Twenty-one tortoises remain outside the fenced construction areas. All telemetered tortoises within the recipient areas are being tracked on a weekly basis. All marked tortoises outside the quarantine area have a radio-telemetry unit affixed. Most of the tortoises within the quarantine area also have a radio telemetry unit affixed. The seven tortoises located in Ivanpah 3 will be marked and telemetered as soon as spring temperatures permit.

Blood samples have been collected on 21 of the tortoises in the quarantine pens and 11 of the tortoises outside the fenced construction areas. These samples were sent to the University of Florida (UFL), Gainesville for analysis. Initial results are shown in Table 1. Three of the tortoises tested suspect for *Mycoplasma agassizii*. Two tested suspect for *Mycoplasma testudineum*, and three tested positive for *M. testudineum*. None of the tortoises showed severe signs of clinical disease. All of the samples for these individuals are being retested for clarity and accuracy by the lab at UFL. Figure 2 shows the initial capture location for each of the tortoise encountered.



Figure 1. Vegetation clearance in Common Area East of the ISEGS Project Site.

Table 1. Master list of Desert Tortoises captured Fall 2010 on the ISEGS project

Tortoise ID	Location (Pen ID)	UTM Date	Easting	Northing	Sex	MCL	Weight	Health Assessment (Y/N)	Blood Assessment (Y/N)	ELISA STATUS (M. agassizii)	ELISA STATUS (M. testudineum)	Comments
BS1	4	10/28/2010	638727	3934792	Female	188	1350	Y	Y			
BS2	9	10/30/2010	638698	3934867	Male	261	3520	Y	Y	Suspect	Suspect	
BS3		11/9/2010	640252	3934598	Female	227	2300	N	N			
BS4		11/9/2010	639069	3933853	Male	250	2910	Y	Y			
BS5		11/9/2010	639031	3935294	Male	216	1880	N	N			
BS6		11/10/2010	640083	3935097	Male	257	2700	N	N			
BS7		11/9/2010	639440	3934309	Unknown	94	185	N	N			
BS8		11/10/2010	641515	3933995	Female	209	1800	N	N			
BS9	11	10/30/2010	638707	3934878	Male	261	3360	Y	Y			
BS10		11/9/2010	638550	3933645	Male	277	3650	N	N			
BS11		11/10/2010	640734	3934732	Female	202	1780	Y	Y			
BS12		11/10/2010	641430	3934798	Female	206	1690	Y	Y			
BS13		11/10/2010	640834	3932416	Male	245	2525	Y	Y			
BS14	6	10/14/2010	638731	3934816	Female	224	2250	Y	Y			
BS15		11/9/2010	639332	3934763	Unknown	190	1425	N	N			
BS16		11/9/2010	638550	3933645	Female	224	2140	N	N			
BS17	17	11/18/2010	638700	3934934	Unknown	116	320	Y	Y			
BS18	18	10/29/2010	638724	3934939	Unknown	71	85	Y	Y			
BS19		11/9/2010	640237	3934603	Unknown	118	365	N	N			
BS20	DEAD	-	-	-	-	-	-	-	-	-	-	Euthanized at DTCC - Crushed carapace
BS21		11/10/2010	639970	3932205	Male	241	2790	Y	Y			
BS22	7	10/29/2010	638710	3934843	Male	252	2340	Y	Y			
BS23		11/10/2010	636948	3936058	Female	242	2700	N	N			
BS24		11/9/2010	638479	3935448	Unknown	179	1290	Y	Y		Suspect	

Table 1. Master list of Desert Tortoises captured Fall 2010 on the ISEGS project

Tortoise ID	Location (Pen ID)	UTM Date	Easting	Northing	Sex	MCL	Weight	Health Assessment (Y/N)	Blood Assessment (Y/N)	ELISA STATUS (M. agassizii)	ELISA STATUS (M. testudineum)	Comments
BS25	3	10/26/2010	638703	3934799	Unknown	168	1120	Y	Y			
BS26	17	10/27/2010	638703	3934942	Unknown	123	370	Y	Y			
BS27	15	10/28/2010	638706	3934919	Female	232	2150	Y	Y			
BS28	1	10/28/2010	638689	3934774	Female	217	2060	Y	Y			
BS29	2	10/28/2010	638728	3934788	Male	265	3325	Y	Y			
BS30		11/18/2010	636221	3940066	Male	238	3000	Y	Y			
BS31	20	10/29/2010	638730	3934959	Unknown	133	530	Y	Y	Suspect	Positive	
BS32	8	10/29/2010	638743	3934843	Male	252	3160	Y	Y			
BS33		11/18/2010	637387	3938925	Female	225	2220	Y	Y			
BS34	5	10/29/2010	638719	3934817	Female	214	2050	Y	Y			
BS35	35	10/29/2010	638748	3934953	Unknown	143	640	Y	Y			
BS36	33	10/30/2010	638760	3934934	Unknown	150	720	Y	Y			
BS37	12	10/30/2010	638706	3934902	Male	243	2400	Y	Y	Suspect	Positive	
BS38	13	10/30/2010	638690	3934906	Female	223	2390	Y	Y		Positive	
BS39	18	11/1/2010	638725	3934945	Unknown	61	46	Y	N			
BS40	18	11/1/2010	638723	3934949	Unknown	69	72	Y	N			
BS41	17	11/1/2010	638708	3934940	Unknown	118	390	Y	Y			
BS100		11/9/2010	638981	3933406	Male	245	3050	Y	Y			
BS101		11/10/2010	641432	3934797	Male	276	4260	Y	Y			
BS102		11/10/2010	639541	3937156	Male	271	3800	Y	Y			
BS103	16	10/31/2010	638726	3934925	Male	251	3600	Y	Y			
BS104	DEAD	-	639259	3937355	Male	265	3275	-	-	-	-	Predation

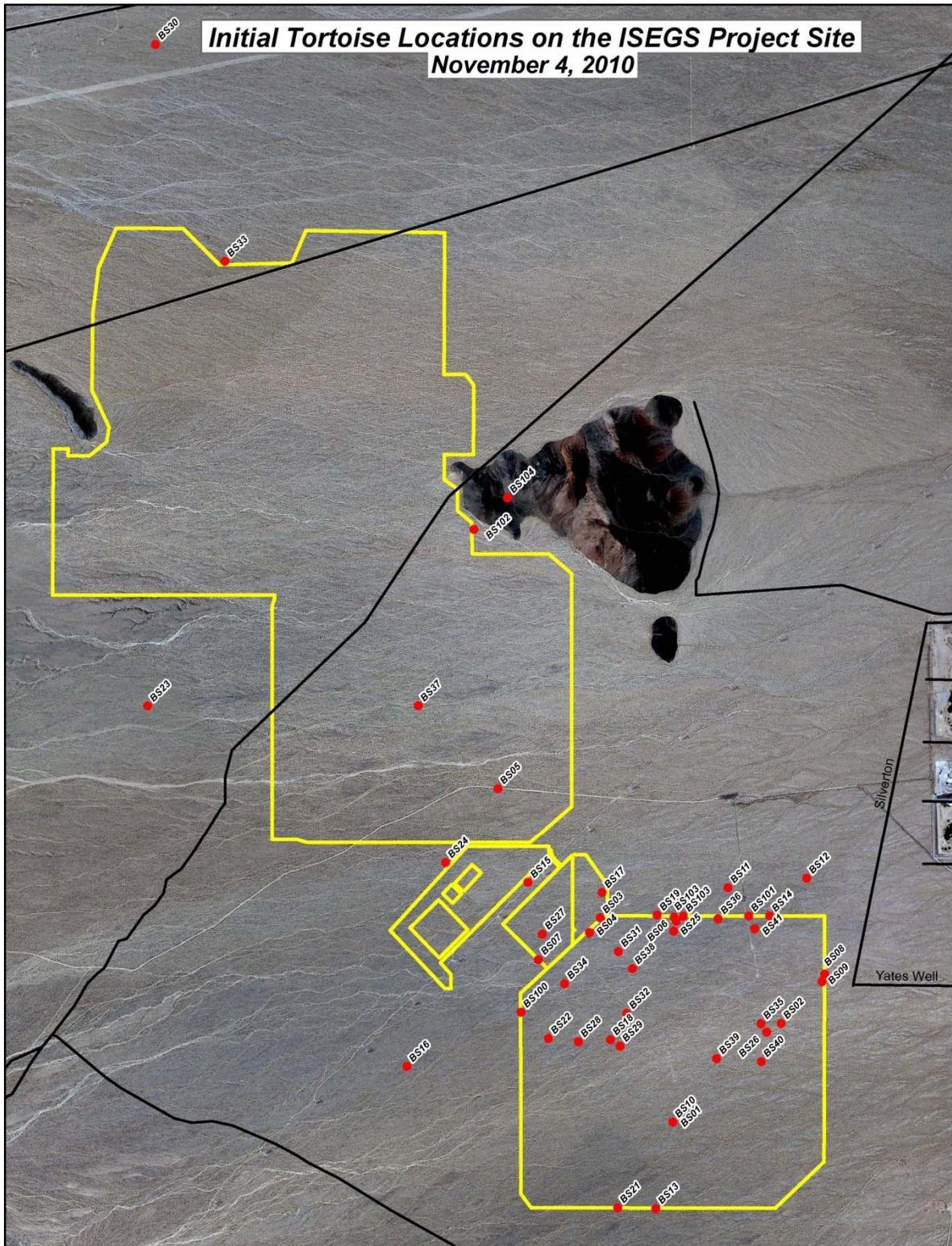


Figure 2. Initial capture locations of desert tortoises encountered and marked Fall 2010, ISEGS project.

Exhibit 10

Master CBO Submittal List Conditions of Certification GEN-2 & TSE-1



**Ivanpah Solar Electric Generating Facility
Master Document List
Conditions of Certification GEN-2 and TSE-1**

Condition of Certification	Submittal Reason - "Approval" or "Reference"	Responsible Discipline	Document Type	Document Number	Title	Bechtel/Vendor/Owner	Remarks	Forecast Submittal Date
GEN-4	Approval	PE	Resume	N/A	Bechtel Site Resident Engineer Resume and Registration	Bechtel		8/15/2010 A
GEN-5	Approval	Geotech	Resume	N/A	Bechtel Responsible Engineering Geologist Resume and Registration	Bechtel		5/18/2010 A
GEN-5	Approval	Geotech	Resume	N/A	Bechtel Responsible Soils/Civil Engineer Resume and Registration	Bechtel		5/18/2010 A
GEN-5	Approval	Civil	Resume	N/A	Bechtel Responsible Design Engineer (for plant structures) Resume and Registration	Bechtel		5/18/2010 A
GEN-5	Approval	Electrical	Resume	N/A	Bechtel Responsible Electrical Engineer Resume and Registration	Bechtel		5/18/2010 A
GEN-5	Approval	Mechanical	Resume	N/A	Bechtel Responsible Mechanical Engineer Resume and Registration	Bechtel		5/18/2010 A
GEN-5	Approval	Plant Design	Resume		Bechtel Responsible Piping / Support Engineer Resume and Registration	Bechtel		Dec-10
MECH-1	Approval	Plant Design	Drawing	25542-000-P4J-0000-000##	EMBEDDED/UG PIPING AND DRAINAGE NOTES, SYMBOLS AND DETAILS	Bechtel		Jan-11
MECH-1	Reference	Plant Design	Drawing	25542-009-P0-0000-00001 & -00002	General Notes & Standard Details Embedded & Underground Piping	Bechtel		Jan-11
MECH-1	Reference	Plant Design	Drawing	25542-001-P1-2110-00001	GENERAL ARRANGEMENT TURBINE AREA PLAN EL 2879'-0" (100'-0" & 2890'-8" (111'-8")	Bechtel		Jan-11
MECH-1	Reference	Plant Design	Drawing	25542-001-P1-2120-00001	GENERAL ARRANGEMENT TURBINE AREA PLAN EL 2905'-0" (126'-0")	Bechtel		Jan-11
MECH-1	Reference	Plant Design	Drawing	25542-001-P1-2130-00001	GENERAL ARRANGEMENT TURBINE AREA PLAN 2917'-3" (138'-3")	Bechtel		Feb-11
MECH-1	Reference	Plant Design	Drawing	25542-001-P1-2190-00001	GENERAL ARRANGEMENT BOILER/TURBINE AREAS SECTION A-A	Bechtel		Feb-11
MECH-1	Reference	Plant Design	Drawing	25542-001-P1-1010-00001	GENERAL ARRANGEMENT SRSG TOWER PLAN EL. 2879'-0" (100'-0")	Bechtel		Feb-11
MECH-1	Reference	Plant Design	Drawing	25542-001-P1-1020-00001	GENERAL ARRANGEMENT SRSG TOWER PLAN EL. 2899'-0" (120'-0")	Bechtel		Feb-11
MECH-1	Reference	Plant Design	Drawing	25542-001-P1-1030-00001	GENERAL ARRANGEMENT SRSG TOWER PLAN EL. 2919'-0" (140'-0")	Bechtel		Feb-11
MECH-1	Reference	Plant Design	Drawing	25542-001-P1-1040-00001	GENERAL ARRANGEMENT SRSG TOWER PLAN EL. 2959'-0" (180'-0")	Bechtel		Feb-11
MECH-1	Reference	Plant Design	Drawing	25542-001-P1-1050-00001	GENERAL ARRANGEMENT SRSG TOWER PLAN EL. 3155'-0" (376'-0"), EL. 3174'-6" (395'-0") AND EL. 3194'-0" (415'-0")	Bechtel		Mar-11
MECH-1	Reference	Plant Design	Drawing	25542-001-P1-7210-00001, -00002, &	GENERAL ARRANGEMENT-AIR COOLED CONDENSER PLAN AT EL. 2879'-0" (100'-0")	Bechtel		Mar-11
MECH-1	Reference	Plant Design	Drawing	25542-000-P1-1910-000##	GENERAL ARRANGEMENT-AUXILIARY BOILER PLAN AT GRADE	Bechtel		Apr-11
MECH-1	Reference	Plant Design	Drawing	25542-000-P1-1990-000##	GENERAL ARRANGEMENT-AUXILIARY BOILER SECTIONS & DETAILS	Bechtel		Apr-11
MECH-1	Reference	Plant Design	Drawing	25542-000-P1-7110-000##	GENERAL ARRANGEMENT-WATER TREATMENT AREA PLAN AT GRADE	Bechtel		Dec-10
MECH-1	Reference	Plant Design	Drawing	25542-000-P1-7190-000##	GENERAL ARRANGEMENT-WATER TREATMENT AREA SECTIONS & DETAILS	Bechtel		Dec-10
MECH-1	Reference	Plant Design	Drawing	25542-000-P1-7910-000##	GENERAL ARRANGEMENT-OILY WATER SEPARATOR PLAN AT GRADE	Bechtel		Dec-10
MECH-1	Reference	Plant Design	Drawing	25542-000-P1-7990-000##	GENERAL ARRANGEMENT-OILY WATER SEPARATOR SECTIONS & DETAILS	Bechtel		Dec-10
MECH-1	Reference	Plant Design	Drawing	25542-000-P1-3710-000##	GENERAL ARRANGEMENT-EMERGENCY DIESEL GENERATOR PLAN AT GRADE	Bechtel		Jan-11
MECH-1	Reference	Plant Design	Drawing	25542-000-P1-3790-000##	GENERAL ARRANGEMENT-EMERGENCY DIESEL GENERATOR SECTIONS & DETAILS	Bechtel		Jan-11
MECH-1	Reference	Plant Design	Drawing	25542-009-P1-7610-000##	GENERAL ARRANGEMENT- COMMON AREA PLAN AT GRADE	Bechtel		Nov-10
MECH-1	Reference	Plant Design	Drawing	25542-009-P1-7690-000##	GENERAL ARRANGEMENT- COMMON AREA PLAN AT GRADE	Bechtel		Nov-10
MECH-1	Reference	Plant Design	Drawing	25542-009-P1-7510-000##	GENERAL ARRANGEMENT-COMMON AREA SECTIONS & DETAILS	Bechtel		Nov-10
MECH-1	Approval	Plant Design	Drawing	25542-001-P30-AB-00001 to -00***	ISOMETRICS (LARGE BORE)-MAIN STEAM - HOT REHEAT - SUPERATOR OUTLET TO STEAM TURBINE	Bechtel		Nov-10
MECH-1	Approval	Plant Design	Drawing	25542-001-P30-AE-00001 to -00***	ISOMETRICS (LARGE BORE)-FEEDWATER - DEAERATOR OUTLET TO BOILER FEED WATER PUMP SUCTION	Bechtel		Nov-10
MECH-1	Approval	Plant Design	Drawing	25542-009-P35-FG-00001 to -00***	ISOMETRICS (LARGE BORE)-FUEL GAS - (UNDERGROUND)	Bechtel		Jan-11
MECH-1	Approval	Plant Design	Drawing	25542-000-P35-PF-000##	ISOMETRICS (LARGE BORE)-FIRE PROTECTION YARD FIRE LOOP (UNDERGROUND)	Bechtel		Nov-10
MECH-1	Approval	Plant Design	QA/QC Plans	25542-000-V1A-PS01-000##	PIPING FABRICATOR QA/QC Plans	Vendor		21-Oct-10 A
MECH-1	Approval	Plant Design	Stress Calc.	25542-000-P6-AB-000##	STRESS CALCULATION FOR HOT REHEAT PIPE SYSTEM	Bechtel	Representative piping system for CBO to review Bechtel pipe design process	Nov-10
MECH-1	Approval	Plant Design	Pipe Suppt	25542-001-PH-AB-00*** to -00***	PIPE SUPPTS FOR HOT REHEAT PIPE SYSTEM	Bechtel	Representative piping system for CBO to review Bechtel pipe design process	Nov-10
MECH-1	Approval	Plant Design	Drawing	25542-000-P3-AB-000##	PIPE ISOMETRIC DRAWINGS FOR HOT REHEAT PIPE SYSTEM	Bechtel	Representative piping system for CBO to review Bechtel pipe design process	Nov-10



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MECH-1	Approval	Plant Design	Stress Calc.	25542-000-P6-AE-000##	STRESS CALCULATION FOR FEEDWATER PIPE SYSTEM	Bechtel	Representative piping system for CBO to review Bechtel pipe design process	Nov-10
MECH-1	Approval	Plant Design	Pipe Suppt	25542-000-PH-AE-000##	PIPE SUPPTS FOR FEEDWATER PIPE SYSTEM	Bechtel	Representative piping system for CBO to review Bechtel pipe design process	Nov-10
MECH-1	Approval	Plant Design	Drawing	25542-000-P3-AE-000##	PIPE ISOMETRIC DRAWINGS FOR FEEDWATER PIPE SYSTEM	Bechtel	Representative piping system for CBO to review Bechtel pipe design process	Nov-10
MECH-1	Approval	Plant Design	Specification	25542-000-P7ZG-00012	PIPE INSULATION THICKNESS SCHEDULE	Bechtel		17-Aug-10 A
STRUC-1	Approval	Control Systems	Document	25542-000-V1A-JA34-000##	BOILER SAMPLE PANEL ENCLOSURE STRUCTURAL DESIGN CALCULATIONS	Vendor		Jul-11
STRUC-1	Approval	Control Systems	Drawing	25542-000-V1A-JA34-000##	BOILER SAMPLE PANEL ENCLOSURE STRUCTURE DRAWING	Vendor		Jul-11
STRUC-1	Approval	Control Systems	Drawing	25542-000-V1A-JA34-000##	BOILER SAMPLE PANEL ENCLOSURE FOUNDATION LOAD AND INTERFACE DRAWING	Vendor		Jul-11
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AB-00001	P&ID MAIN STEAM SYSTEM (HP STEAM)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AB-00002	P&ID MAIN STEAM SYSTEM (CRH STEAM)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AB-00003	P&ID MAIN STEAM SYSTEM (HRH STEAM)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AD-00001	P&ID CONDENSATE SYSTEM (PUMPS)	Bechtel		Nov-10
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AD-00002	P&ID CONDENSATE SYSTEM (SPRAYS)	Bechtel		Nov-10
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AD-00003	P&ID CONDENSATE SYSTEM (FW HEATERS)	Bechtel		Nov-10
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AD-00004	P&ID CONDENSATE SYSTEM (ACC STEAM DUCT)	Bechtel		Nov-10
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AD-00005	P&ID CONDENSATE SYSTEM (INTERNAL DRAINS)	Bechtel		Nov-10
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AD-00006	P&ID CONDENSATE SYSTEM (EXTERNAL DRAINS)	Bechtel		Nov-10
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AE-00001	P&ID FEEDWATER SYSTEM (PUMP SUCTION)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AE-00002	P&ID FEEDWATER SYSTEM (PUMP DISCHARGE)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AE-00003	P&ID FEEDWATER SYSTEM (FW HEATERS)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-002-M6-AE-00001	P&ID FEEDWATER SYSTEM (PUMP SUCTION)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-002-M6-AE-00002	P&ID FEEDWATER SYSTEM (PUMP DISCHARGE)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-002-M6-AE-00003	P&ID FEEDWATER SYSTEM (FW HEATERS)	Bechtel	SIMILAR FOR UNIT 3	06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AF-00001	P&ID EXTRACTION STEAM SYSTEM (LP FW NO 1)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AF-00002	P&ID EXTRACTION STEAM SYSTEM (LP FW NO 2)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AF-00003	P&ID EXTRACTION STEAM SYSTEM (DEAERATOR FW NO 3)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AF-00005	P&ID EXTRACTION STEAM SYSTEM (HP FW NO 5)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AF-00006	P&ID EXTRACTION STEAM SYSTEM (HP FW NO 6)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-002-M6-AF-00001	P&ID EXTRACTION STEAM SYSTEM (LP FW NO 1)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-002-M6-AF-00002	P&ID EXTRACTION STEAM SYSTEM (LP FW NO 2)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-002-M6-AF-00003	P&ID EXTRACTION STEAM SYSTEM (DEAERATOR FW NO 3)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-002-M6-AF-00004	P&ID EXTRACTION STEAM SYSTEM (HP FW NO 4)	Bechtel	SIMILAR FOR UNIT 3	06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-002-M6-AF-00005	P&ID EXTRACTION STEAM SYSTEM (HP FW NO 5)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-002-M6-AF-00006	P&ID EXTRACTION STEAM SYSTEM (HP FW NO 6)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AJ-00001	P&ID CONDENSATE AND FEEDWATER CHEMICAL INJECTION SYSTEM	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-AJ-00002	P&ID CONDENSATE AND FEEDWATER CHEMICAL INJECTION SYSTEM	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-BM-00001	P&ID BLOWDOWN SYSTEM	Bechtel		29-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-009-M6-FG-00001	P&ID FUEL GAS SYSTEM	Bechtel		21-Sep-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-FL-00001	P&ID LUBE OIL SYSTEM	Bechtel		Dec-10
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-PA-00001	P&ID COMPRESSED AIR SYSTEM (AIR COMPRESSORS, RECEIVERS, DRYERS)	Bechtel		Dec-10
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-PA-00002	P&ID COMPRESSED AIR SYSTEM (SERVICE AIR DISTRIBUTION)	Bechtel		Dec-10
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-PA-00003	P&ID COMPRESSED AIR SYSTEM (INSTRUMENT AIR DISTRIBUTION)	Bechtel		Dec-10
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-PG-00001	P&ID SERVICE GAS SYSTEM	Bechtel		06-Oct-10 A
MECH-1	Approval	Mechanical	P&ID	25542-001-M6-PF-00001	P&ID FIRE PROTECTION SYSTEM	Bechtel		16-Sep-10 A
MECH-1	Approval	Mechanical	P&ID	25542-001-M6-PF-00002	P&ID FIRE PROTECTION SYSTEM	Bechtel		16-Sep-10 A
MECH-1	Approval	Mechanical	P&ID	25542-009-M6-PF-00001	P&ID FIRE PROTECTION SYSTEM	Bechtel		16-Sep-10 A
MECH-1	Approval	Mechanical	P&ID	25542-009-M6-PF-00002	P&ID FIRE PROTECTION SYSTEM	Bechtel		16-Sep-10 A
MECH-1	Approval	Mechanical	P&ID	25542-001-M6-PW-00001	P&ID POTABLE WATER SYSTEM	Bechtel		21-Sep-10 A
MECH-1	Approval	Mechanical	P&ID	25542-001-M6-PW-00002	P&ID POTABLE WATER SYSTEM	Bechtel		21-Sep-10 A



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MECH-1	Approval	Mechanical	P&ID	25542-009-M6-PW-00002	P&ID POTABLE WATER SYSTEM	Bechtel		21-Sep-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-SA-00001	P&ID AUXILIARY STEAM SYSTEM (NIGHT PRESERVATION BOILER)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-SA-00002	P&ID AUXILIARY STEAM SYSTEM (AUXILIARY BOILER)	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-SA-00003	P&ID AUXILIARY STEAM SYSTEM	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-SD-00001	P&ID BOILER FEED PUMP TURBINE	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-SD-00002	P&ID BOILER FEED PUMP TURBINE	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-SL-00001	P&ID STEAM SEAL SYSTEM	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-WB-00001	P&ID CLOSED COOLING WATER SYSTEM	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-WB-00002	P&ID CLOSED COOLING WATER SYSTEM	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-WB-00003	P&ID CLOSED COOLING WATER SYSTEM	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-WR-00001	P&ID RAW WATER SYSTEM	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-009-M6-WR-00001	P&ID RAW WATER SYSTEM	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-WS-00001	P&ID SERVICE WATER SYSTEM	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-WY-00001	P&ID MIRROR WASH WATER SYSTEM	Bechtel		06-Oct-10 A
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-XW-00001	P&ID WASTE WATER SYSTEM	Bechtel		Nov-10
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-XW-00002	P&ID WASTE WATER SYSTEM	Bechtel		Nov-10
MECH-1	Reference	Mechanical	P&ID	25542-001-M6-XW-00003	P&ID WASTE WATER SYSTEM	Bechtel		Nov-10
MECH-1	Reference	Mechanical	P&ID	25542-000-M6J-YA-00001	P&ID SYMBOLS AND LEGENDS	Bechtel		16-Sep-10 A
MECH-1	Reference	Mechanical	P&ID	25542-000-M6J-YA-00002	P&ID SYMBOLS AND LEGENDS	Bechtel		16-Sep-10 A
MECH-1	Reference	Mechanical	P&ID	25542-000-M6J-YA-00003	P&ID SYMBOLS AND LEGENDS	Bechtel		16-Sep-10 A
MECH-1	Reference	Mechanical	P&ID	25542-000-M6J-YA-00004	P&ID SYMBOLS AND LEGENDS	Bechtel		16-Sep-10 A
MECH-1	Reference	Mechanical	P&ID	25542-000-M6J-YA-00005	P&ID SYMBOLS AND LEGENDS	Bechtel		16-Sep-10 A
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	SRSG GENERAL ARRANGEMENT DRAWINGS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	SRSG FEED PIPING ARRANGEMENT	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	SRSG FEED PIPING DETAILS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	SRSG LEFT AND RIGHT SW PANELS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	SRSG CORNER PANELS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	SRSG FRONT AND REAR WALL PANELS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	SRSG PANEL INLET AND OUTLET HEADERS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	SRSG STEAM DRUM DETAILS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	SRSG STEAM DRUM INTERNAL ARRANGEMENT AND DETAILS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	TUBING, HEADERS & PIPING REQ'S	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	SH PANEL INLET AND OUTLET HEADERS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	HTSH OUTLET HEADER	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	LOWER LEVEL SH PIPING & FDR TUBE DTLS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	UPPER LEVEL SH PIPING & REL TUBE DTLS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	SH SPRAY PIPE AND LINER	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	LOWER LEVEL RH PIPING ARRANGEMENT	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	UPPER LEVEL RH PIPING ARRANGEMENT	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	RH PANEL INLET & OUTLET HEADERS	Vendor	No PE stamp - ASME certification will suffice	Nov-10



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MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	MISC PIPING - DRUM, SUPPORTS / BOM	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	SV STACKS, SUPPORTS & SILENCERS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	SPRING HANGERS & SUPPORTS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	BOILER NAMEPLATE	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	AS-BUILTS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	MISC FW ATTACHMENTS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	SRSR PIPING AND INSTRUMENTATION DIAGRAMS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	List	25542-000-V1A-MBST-000##	INSTRUMENT LIST	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	List	25542-000-V1A-MBST-000##	ELECTRICAL LOAD LIST	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	List	25542-000-V1A-MBST-000##	ELECTRICAL HEAT TRACE POWER LIST	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	INSTRUMENT LOCATION DRAWINGS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	ELECTRICAL EQUIPMENT LAYOUT	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	INSTRUMENT INSTALLATION DETAILS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Document	25542-000-V1A-MBST-000##	ISO CERTIFICATE OR QUALITY ASSURANCE MANUAL	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Document	25542-000-V1A-MBST-000##	OVERALL PROJECT SCHEDULE	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Document	25542-000-V1A-MBST-000##	SUPPLIER QUALITY MANAGEMENT PROGRAM	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	Column baseplate locations on the SRSR support platform (elevation 359 ft. above grade)	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	NTE column loads and loading	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	Proposed framed steam arrangement and model (STAAD Model)	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	Structural Steel Standard Detail Drawings	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Document	25542-000-V1A-MBST-000##	Stairway interface locations and loads	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Document	25542-000-V1A-MBST-000##	Final Anchor bolt sizes & locations for boiler support structure to boiler tower interface	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Document	25542-000-V1A-MBST-000##	Steel Framing Design	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Document	25542-000-V1A-MBST-000##	Structural and miscellaneous steel drawings.	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	SRSR PIPING ARRANGEMENT DRAWINGS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	KEY PLAN, INCLUDES ARRANGEMENT OF PUMPS, HOIST AND OTHER MAJOR EQUIPMENT	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	HOISTS ARRANGEMENT DRAWINGS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	BOILER HANGER ASSEMBLY LUGS ARRANGEMENT DRAWING	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	List	25542-000-V1A-MBST-000##	LINE LIST	Vendor	No PE stamp - ASME certification will suffice	Nov-10



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MECH-1	Reference	Mechanical	List	25542-000-V1A-MBST-000##	WELD LIST	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	CONCEPTUAL BLOCK DIAGRAM	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-MBST-000##	ELECTRICAL WIRING DIAGRAMS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Approval	Mechanical	Document	25542-000-V1A-MBST-000##	ELECTRONIC SUBMITTAL DATA - CABLES	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Document	25542-000-V1A-MBST-000##	BOILER PERFORMANCE TEST PROCEDURE	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Document	25542-000-V1A-MBST-000##	NARRATIVE DESCRIBING DEGREE OF SHOP ASSEMBLY AND ERECTION PHILOSOPHY	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-MBST-000##	DRAWINGS FOR LIFTING AND TILTING BEAMS	Vendor	No PE stamp - ASME certification will suffice	Nov-10
MECH-2	Approval	Mechanical	Document	25542-000-V1A-MBFD-000##	AUXILIARY BOILER ASME CODE COMPLIANCE DOCUMENTS	Vendor	No PE stamp - ASME certification will suffice	Mar-11
STRUC-1	Reference	Mechanical	Drawing	25542-000-V1A-MBFD-000##	AUXILIARY BOILER GENERAL ARRANGMENT / LAYOUT	Vendor	No PE stamp - ASME certification will suffice	Apr-11
STRUC-1	Approval	Mechanical	Drawing	25542-000-V1A-MBFD-000##	AUXILIARY BOILER FOUNDATION INTERFACE DRAWING (INCLUDING CALCULATION)	Vendor	No PE stamp - ASME certification will suffice	Apr-11
MECH-2	Approval	Mechanical	Document	25542-000-V2A-MBFD-000##	NIGHT PRESERVATION BOILER ASME CODE COMPLIANCE DOCUMENTS	Vendor	No PE stamp - ASME certification will suffice	Mar-11
STRUC-1	Reference	Mechanical	Drawing	25542-000-V2A-MBFD-000##	NIGHT PRESERVATION BOILER GENERAL ARRANGMENT / LAYOUT	Vendor	No PE stamp - ASME certification will suffice	Apr-11
STRUC-1	Approval	Mechanical	Drawing	25542-000-V2A-MBFD-000##	NIGHT PRESERVATION BOILER FOUNDATION INTERFACE DRAWING	Vendor	No PE stamp - ASME certification will suffice	Apr-11
MECH-2	Approval	Mechanical	Document	25542-000-V1A-MBHS-000##	ELECTRICAL SUPERHEATER ASME CODE COMPLIANCE DOCUMENTS	Vendor	No PE stamp	Mar-11
STRUC-1	Reference	Mechanical	Drawing	25542-000-V1A-MBHS-000##	ELECTRICAL SUPERHEATER SUPERHEATER GENERAL ARRANGEMENT	Vendor		Apr-11
STRUC-1	Reference	Mechanical	Drawing	25542-000-V1A-MBHS-000##	ELECTRICAL SUPERHEATER FOUNDATION INTERFACE DRAWING	Vendor		Apr-11
MECH-2	Approval	Mechanical	Document	25542-000-V1A-MCRA-000##	AIR COMPRESSOR, AIR RECEIVERS AND AIR DRYERS ASME CODE COMPLIANCE DOCUMENTS	Vendor	No PE stamp - certification will suffice	Jan-11
STRUC-1	Reference	Mechanical	Drawing	25542-000-V1A-MCRA-000##	AIR COMPRESSOR GENERAL ARRANGMENT (INCLUDES FOUNDATION INTERFACE DETAILS)	Vendor		Apr-11
STRUC-1	Reference	Mechanical	Drawing	25542-000-V1A-MCRA-000##	AIR DRYER GENERAL ARRANGMENT (INCLUDES FOUNDATION INTERFACE DETAILS)	Vendor		Apr-11
STRUC-1	Reference	Mechanical	Drawing	25542-000-V1A-MCRA-000##	AIR RECEIVER GENERAL ARRANGEMENT (INCLUDES FOUNDATION INTERFACE DETAILS)	Vendor		Apr-11
STRUC-1	Reference	Mechanical	Drawing	25542-000-V1A-MEAA-000##	ACC GENERAL ARRANGEMENT	Vendor		Feb-11
STRUC-1	Approval	Mechanical	Drawing	25542-000-V1A-MEAA-000##	ACC FOUNDATION INTERFACE DRAWING	Vendor		Feb-11
STRUC-1	Approval	Mechanical	Document	25542-000-V1A-MEAA-000##	ACC ATTACHMENT DETAILS, LOADS (SNOW, WIND, SEISMIC, ETC.), AND MOVEMENTS CALCULATIONS	Vendor		Feb-11
MECH-2	Approval	Mechanical	Document	25542-000-V1A-MEAA-000##	ACC ASME CODE COMPLIANCE DOCUMENTS	Vendor	No PE stamp - certification will suffice	Dec-10
STRUC-1	Approval	Mechanical	Document	25542-000-V1A-MEAA-000##	ACC STRUCTURAL DESIGN CALCULATIONS	Vendor		Feb-11
STRUC-1	Approval	Mechanical	Document	25542-000-V1A-MEAA-000##	ACC STATEMENT OF SPECIAL INSPECTIONS	Bechtel		40575
STRUC-1	Approval	Mechanical	Resume	25542-000-V1A-MEAA-000##	PE RESUME	Vendor		Feb-11
STRUC-1	Reference	Mechanical	Drawing	25542-000-V1A-MEAW-000##	WSAC GENERAL ARRANGEMENT	Vendor		Mar-11
STRUC-1	Approval	Mechanical	Drawing	25542-000-V1A-MEAW-000##	WSAC FOUNDATION INTERFACE DRAWING	Vendor		Mar-11
STRUC-1	Approval	Mechanical	Resume	25542-000-V1A-MEAW-000##	WSAC PE RESUME	Vendor		Mar-11
MECH-2	Approval	Mechanical	Document	25542-000-V1A-MESW-000##	FEED WATER HEATERS ASME CODE COMPLIANCE DOCUMENTS	Vendor	No PE stamp - ASME certification will suffice	Jan-11
STRUC-1	Reference	Mechanical	Drawing	25542-000-V1A-MESW-000##	FEED WATER HEATERS GENERAL ARRANGEMENT DRAWING	Vendor		Nov-10
STRUC-1	Approval	Mechanical	Drawing	25542-000-V1A-MESW-000##	FEED WATER HEATERS FOUNDATION INTERFACE DRAWING	Vendor		Nov-10
STRUC-1	Approval	Mechanical	Resume	25542-000-V1A-MESW-000##	PE RESUME	Vendor		Nov-10
STRUC-1	Approval	Mechanical	Drawing	25542-000-V1A-MGED-000##	DIESEL GENERATOR SYSTEM GENERAL ARRANGEMENT (INCL FOUNDATION LOAD DATA, ENCLOSURE INFORMATION)	Vendor		Feb-11
STRUC-1	Approval	Mechanical	Drawing	25542-000-V1A-MGED-000##	DIESEL GENERATOR STRUCTURAL CALCULATION	Vendor		Feb-11
STRUC-4	Approval	Mechanical	Drawing	25542-000-V1A-MGED-000##	DIESEL TANK GENERAL ARRANGEMENT AND CALCULATION	Vendor		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MGED-000##	EMERGENCY DIESEL GENERATOR FOUNDATION	Vendor		Feb-11



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STRUC-1	Approval	Civil	Resume	25542-000-V1A-MGED-000##	PE RESUME	Vendor		Feb-11
AQSC-9	Approval	Mechanical	Document	25542-000-V1A-MGED-000##	DIESEL ENGINE SPECIFICATION (CUT SHEET) FOR CPM	Vendor	No PE stamp	Dec-10
ELEC-1	Approval	Mechanical	Document	25542-000-V1A-MGED-000##	DIESEL GENERATOR ONE LINE DIAGRAM	Vendor		Nov-10
AQ-35	Approval	Mechanical	Document	25542-000-V1A-MGED-000##	DIESEL ENGINE HOUR TIMER SPECIFICATION FOR CPM	Vendor	No PE stamp	22-Nov
STRUC-1	Reference	Civil	Drawing	25542-000-V1A-MPGF-000##	FIRE WATER PUMP GENERAL ARRANGEMENT (INCL FOUNDATION LOAD DATA)	Vendor		Mar-11
STRUC-4	Approval	Mechanical	Drawing	25542-000-V1A-MPGF-000##	FIRE WATER PUMP DIESEL TANK GENERAL ARRANGEMENT AND CALCULATION	Vendor		Mar-11
STRUC-1	Approval	Civil	Resume	25542-000-V1A-MPGF-000##	PE RESUME	Vendor		Mar-11
AQSC-9	Approval	Mechanical	Document	25542-000-V1A-MPGF-000##	FIRE WATER PUMP DIESEL ENGINE SPECIFICATION (CUT SHEET) FOR CPM	Vendor	No PE stamp	Nov-10
AQ-27	Approval	Mechanical	Document	25542-000-V1A-MPGF-000##	FIRE WATER PUMP HOUR TIMER SPECIFICATION FOR CPM	Vendor	No PE stamp	Feb-11
STRUC-4	Reference	Mechanical	Drawing	25542-000-V1A-MPPM-000##	CHEMICAL FEED SKIDS GENERAL ARRANGEMENT DRAWINGS	Vendor		Aug-11
MECH-2	Approval	Mechanical	Document	25542-000-V1A-MSXF-000##	FUEL GAS HEATER ASME CODE COMPLIANCE DOCUMENTS	Vendor	No PE stamp - certification will suffice	Jan-11
MECH-2	Approval	Mechanical	Document	25542-000-V1A-MSXF-000##	FUEL GAS KNOCKOUT DRUM ASME CODE COMPLIANCE DOCUMENTS	Vendor	No PE stamp - certification will suffice	Jan-11
STRUC-1	Reference	Civil	Drawing	25542-000-V1A-MSXF-000##	KNOCK OUT DRUM GENERAL ARRANGEMENT (INCL FOUNDATION INTERFACE DATA)	Vendor		Jun-11
STRUC-1	Reference	Civil	Drawing	25542-000-V1A-MSXF-000##	FUEL GAS ELECTRIC HEATER GENERAL ARRANGEMENT (INCL FOUNDATION INTERFACE DATA)	Vendor		May-11
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MT00-000##	FIELD ERECTED TANK GENERAL DRAWING (INCL FOUNDATION INTERFACE DATA) - RAW/FIRE WATER STORAGE TANK	Vendor		Feb-11
STRUC-1	Approval	Civil	Document	25542-000-V1A-MT00-000##	CODE DESIGN CALCULATIONS - RAW/FIRE WATER STORAGE TANK	Vendor		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MT00-000##	FIELD ERECTED TANK GENERAL DRAWING (INCL FOUNDATION INTERFACE DATA) - DEMINERALIZED WATER STORAGE TANK	Vendor		Mar-11
STRUC-1	Approval	Civil	Document	25542-000-V1A-MT00-000##	CODE DESIGN CALCULATIONS - DEMINERALIZED WATER STORAGE TANK	Vendor		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MT00-000##	FIELD ERECTED TANK GENERAL DRAWING (INCL FOUNDATION INTERFACE DATA) - MIRROR WASH WATER STORAGE TANK	Vendor		Mar-11
STRUC-1	Approval	Civil	Document	25542-000-V1A-MT00-000##	CODE DESIGN CALCULATIONS - MIRROR WASH WATER STORAGE TANK	Vendor		Mar-11
STRUC-1	Approval	Civil	Resume	25542-000-V1A-MT00-000##	PE RESUME	Vendor		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MTSC-000##	SRSG BLOWDOWN TANK GENERAL ARRANGEMENT (INCL FOUNDATION INTERFACE DATA)	Vendor		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MTSC-000##	SRSG FLASH TANK GENERAL ARRANGEMENT (INCL FOUNDATION INTERFACE DATA)	Vendor		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MTSC-000##	CLOSED COOLING WATER CHEMICAL FEED TANK GENERAL ARRANGEMENT (INCL FOUNDATION INTERFACE DATA)	Vendor		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MTSC-000##	CLOSED COOLING WATER HEAD TANK LOAD DATA	Vendor		Mar-11
MECH-2	Approval	Mechanical	Document	25542-000-V1A-MTSC-000##	ASME CODE COMPLIANCE DOCUMENTS (PRESSURE VESSEL)	Vendor	No PE stamp - certification will suffice	Apr-11
STRUC-1	Approval	Civil	Resume	25542-000-V1A-MTSC-000##	PE RESUME	Vendor		May-11
MECH-2	Approval	Mechanical	Document	25542-000-V1A-MUSG-000##	STEAM TURBINE GENERATOR ASME CODE COMPLIANCE DOCUMENTS	Vendor	No PE stamp - certification will suffice	Jun-11
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MUSG-000##	STEAM TURBINE GENERATOR ENCLOSURE	Vendor		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MUSG-000##	STEAM TURBINE GENERATOR ENCLOSURE STATEMENT OF SPECIAL INSPECTIONS (CBC CH. 17)	Vendor		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MUSG-000##	STEAM TURBINE GENERATOR FOUNDATION LOADS AND DESIGN REQUIREMENT	Vendor		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MUSG-000##	STEAM TURBINE GENERATOR FOUNDATION LAYOUT	Vendor		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MUSG-000##	STEAM TURBINE GENERATOR CIVIL INFORMATION AND GENERAL ARRANGEMENT DRAWING	Vendor		Jan-00
STRUC-1	Approval	Civil	Resume	25542-000-V1A-MUSG-000##	PE RESUME	Vendor		Aug-10
MECH-2	Approval	Mechanical	Document	25542-000-V1A-MVR0-000##	DEAERATOR ASME CODE COMPLIANCE DOCUMENTS	Vendor	No PE stamp - certification will suffice	Nov-10
STRUC-1	Reference	Civil	Drawing	25542-000-V1A-MVR0-000##	DEAERATOR GENERAL ARRANGEMENT DRAWING	Vendor	No PE stamp - certification will suffice	21-Sep-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MVR0-000##	DEAERATOR FOUNDATION INTERFACE DRAWING	Vendor		21-Sep-10 A
STRUC-1	Approval	Civil	Resume	25542-000-V1A-MVR0-000##	PE RESUME	Vendor		21-Sep-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MVR0-000##	DEAERATOR STRUCTURAL STEEL STATEMENT OF SPECIAL INSPECTIONS (CBC CH. 17)	Vendor		21-Sep-10 A



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Condition of Certification	Submittal Reason - "Approval" or "Reference"	Responsible Discipline	Document Type	Document Number	Title	Bechtel/ Vendor/ Owner	Remarks	Forecast Submittal Date
MECH-2	Approval	Mechanical	Document	25542-000-V1A-MWDC-000##	CONDENSATE POLISHER VESSELS ASME CODE COMPLIANCE DOCUMENTS	Vendor	No PE stamp - certification will suffice	Dec-10
STRUC-1	Reference	Civil	Drawing	25542-000-V1A-MWDC-000##	CONDENSER POLISHER FOUNDATION INTERFACE DRAWING	Vendor		Apr-11
MECH-2	Approval	Mechanical	Document	25542-000-V1A-MWKW-000##	HYDRO-PNEUMATIC TANK ASME CODE COMPLIANCE DOCUMENTS	Vendor	No PE stamp - certification will suffice	Mar-11
MECH-1	Reference	Mechanical	Drawing	25542-000-V1A-PY21-000##	FIRE PROTECTION SYSTEM LEGEND, DRAWING INDEX AND GENERAL NOTES	Vendor		Apr-11
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-PY21-000##	FIRE PROTECTION SYSTEM TYPICAL DEVICE LAYOUT, MOUNTING AND WIRING DETAILS	Vendor		Apr-11
MECH-1	Approval	Mechanical	Document	25542-000-V1A-PY21-000##	FIRE PROTECTION SYSTEM BILL OF MATERIAL	Vendor		Apr-11
MECH-1	Approval	Mechanical	Document	25542-000-V1A-PY21-000##	FIRE PROTECTION SYSTEM HYDRAULIC CALCULATIONS	Vendor		Apr-11
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-PY21-000##	FIRE CONTROL PANEL, CONTROLS & WIRING DETAILS	Vendor		Apr-11
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-PY21-000##	FIRE EXTINGUISHER LOCATION PLANS	Vendor		Apr-11
MECH-1	Approval	Mechanical	Drawing	25542-000-V1A-PY21-000##	FIRE PROTECTION SYSTEM TYPICAL ISOMETRIC DRAWINGS	Vendor		Apr-11
MECH-1	Approval	Mechanical	Resume	25542-000-V1A-PY21-000##	PE RESUME	Vendor		Apr-11
STRUC-1	Reference	Civil	Drawing	25542-000-V1A-MPGB-000##	BOILER FEED PUMP GENERAL ARRANGEMENT DRAWING (INCL FOUNDATION INTERFACE DATA)	Vendor		Feb-11
STRUC-1	Approval	Civil	Resume	25542-000-V1A-MPGB-000##	PE RESUME	Vendor		Feb-11
STRUC-4	Approval	Civil	Drawing	25542-000-V1A-MPGB-000##	BOILER FEED PUMP LUBE OIL TANK GENERAL ARRANGEMENT AND CALCULATION	Vendor		Feb-11
STRUC-4	Approval	Civil	Drawing	25542-000-V1A-MPGB-000##	BOILER FEED PUMP HYDRAULIC OIL TANK GENERAL ARRANGEMENT AND CALCULATION	Vendor		Feb-11
STRUC-1	Reference	Civil	Drawing	25542-000-V2A-MPGB-000##	STARTUP BOILER FEED PUMP GENERAL ARRANGEMENT DRAWING (INCL FOUNDATION INTERFACE DATA)	Vendor		Feb-11
STRUC-1	Approval	Civil	Document	25542-000-V1A-MLGP-000##	OIL WATER SEPERATOR STRUCTURAL CALCULATION	Vendor		Jun-11
STRUC-1	Approval	Civil	Resume	25542-000-V1A-MLGP-000##	PE RESUME	Vendor		Jun-11
TSE-5	Approval	STE/Civil	Document	25542-000-3DR-C04G-00001	SWITCHYARD STRUCTURAL DESIGN CRITERIA	Bechtel		27-Aug-10 A
TSE-5	Approval	STE/Civil	Drawing	25542-001-DB-3510-00001	SWITCHYARD CONCRETE FOUNDATION GENERAL ARRANGEMENT PLAN	Bechtel		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-002-DB-3510-00001	SWITCHYARD CONCRETE FOUNDATION GENERAL ARRANGEMENT PLAN	Bechtel		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-003-DB-3510-00001	SWITCHYARD CONCRETE FOUNDATION GENERAL ARRANGEMENT PLAN	Bechtel		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-000-DB-3590-00001	SWITCHYARD CONCRETE FOUNDATIONS CT AND VT	Bechtel		May-11
TSE-5	Approval	STE/Civil	Drawing	25542-000-DB-3590-00002	SWITCHYARD CONCRETE FOUNDATIONS BS AND SA	Bechtel		Apr-11
TSE-5	Approval	STE/Civil	Drawing	25542-000-DB-3590-00003	SWITCHYARD CONCRETE FOUNDATIONS CB AND DS	Bechtel		Apr-11
TSE-5	Approval	STE/Civil	Calculation	25542-000-DBC-3510-00001	FOUNDATION CALC - 115 KV BUS SUPPORT	Bechtel		Apr-11
TSE-5	Approval	STE/Civil	Calculation	25542-000-DBC-3510-00002	FOUNDATION CALC - 115 KV CIRCUIT BREAKER	Bechtel		Apr-11
TSE-5	Approval	STE/Civil	Calculation	25542-000-DBC-3510-00003	FOUNDATION CALC - 115 KV CURRENT TRANSFORMER	Bechtel		May-11
TSE-5	Approval	STE/Civil	Calculation	25542-000-DBC-3510-00004	FOUNDATION CALC - 115 KV DISCONNECT SWITCH	Bechtel		Apr-11
TSE-5	Approval	STE/Civil	Calculation	25542-000-DBC-3510-00005	FOUNDATION CALC - 115 KV SURGE ARRESTER	Bechtel		Apr-11
TSE-5	Approval	STE/Civil	Calculation	25542-000-DBC-3510-00006	FOUNDATION CALC - 115 KV VOLTAGE TRANSFORMER	Bechtel		May-11
TSE-5	Approval	STE/Civil	Calculation	25542-000-DBC-3510-00007	FOUNDATION CALC - 115 KV CABLE TERMINATOR	Bechtel		Feb-11
TSE-5	Approval	STE/Elect.	Drawing	25542-000-E1-EZ-00001	SWITCHYARD SINGLE LINE METER & RELAY DIAGRAM	Bechtel		Nov-10
TSE-5	Approval	STE/Elect.	Drawing	25542-000-EG-3510-00001	SWITCHYARD GROUNDING PLAN	Bechtel		Jun-11
TSE-5	Approval	STE/Elect.	Drawing	25542-000-EG-3590-00002	SWITCHYARD GROUNDING SECTIONS AND DETAILS	Bechtel		Jun-11
TSE-5	Approval	STE/Elect.	Calculation	25542-001-EMC-EZ-00001	SWITCHYARD RELAY SETTINGS	Bechtel		Oct-11
TSE-5	Approval	STE/Elect.	Calculation	25542-002-EMC-EZ-00001	SWITCHYARD RELAY SETTINGS	Bechtel		Oct-11
TSE-5	Approval	STE/Elect.	Calculation	25542-003-EMC-EZ-00001	SWITCHYARD RELAY SETTINGS	Bechtel		Oct-11
TSE-5	Approval	STE/Elect.	Drawing	25542-000-ER-3501-00001	SWITCHYARD UNDERGROUND RACEWAY PLAN	Bechtel		Feb-11
TSE-5	Approval	STE/Elect.	Drawing	25542-000-ER-3510-00001	SWITCHYARD ABOVE GRADE CONDUIT DETAILS	Bechtel		Feb-11
TSE-5	Approval	STE/Elect.	Drawing	25542-001-EZ-3510-00001	SWITCHYARD GENERAL ARRANGEMENT	Bechtel		Nov-10
TSE-5	Approval	STE/Elect.	Drawing	25542-002-EZ-3510-00001	SWITCHYARD GENERAL ARRANGEMENT	Bechtel		Nov-10
TSE-5	Approval	STE/Elect.	Drawing	25542-003-EZ-3510-00001	SWITCHYARD GENERAL ARRANGEMENT	Bechtel		Nov-10
TSE-5	Approval	STE/Elect.	Drawing	25542-000-EZ-3590-00001	SWITCHYARD SECTIONS AND DETAILS	Bechtel		Feb-11
TSE-5	Approval	STE/Elect.	Drawing	25542-000-EZ-3590-00002	SWITCHYARD ELECTRICAL HARDWARE DETAILS	Bechtel		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-001-SS-3510-00001	SWITCHYARD EQUIPMENT SUPPORT STRUCTURES ARRANGEMENT PLAN	Bechtel		Jan-11
TSE-5	Approval	STE/Civil	Drawing	25542-002-SS-3510-00001	SWITCHYARD EQUIPMENT SUPPORT STRUCTURES ARRANGEMENT PLAN	Bechtel		Jan-11
TSE-5	Approval	STE/Civil	Drawing	25542-003-SS-3510-00001	SWITCHYARD EQUIPMENT SUPPORT STRUCTURES ARRANGEMENT PLAN	Bechtel		Jan-11
TSE-5	Approval	STE/Civil	Drawing	25542-000-SS-3590-00001	SWITCHYARD STRUCTURAL STEEL EQUIPMENT SUPPORT STRUCTURE FOR INSULATOR	Bechtel		Mar-11
TSE-5	Approval	STE/Civil	Drawing	25542-000-SS-3590-00002	SWITCHYARD STRUCTURAL STEEL EQUIPMENT SUPPORT STRUCTURE FOR DS	Bechtel		Mar-11



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TSE-5	Approval	STE/Civil	Drawing	25542-000-SS-3590-00003	SWITCHYARD STRUCTURAL STEEL EQUIPMENT SUPPORT STRUCTURE FOR CT	Bechtel		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-000-SS-3590-00004	SWITCHYARD STRUCTURAL STEEL EQUIPMENT SUPPORT STRUCTURE FOR VT	Bechtel		Mar-11
TSE-5	Approval	STE/Civil	Drawing	25542-000-SS-3590-00005	SWITCHYARD STRUCTURAL STEEL EQUIPMENT SUPPORT STRUCTURE FOR SA	Bechtel		Mar-11
TSE-5	Approval	STE/Civil	Calculation	25542-000-SSC-3510-00001	STRUCTURAL CALC - 115 KV BUS SUPPORT	Bechtel		Mar-11
TSE-5	Approval	STE/Civil	Calculation	25542-000-SSC-3510-00002	STRUCTURAL CALC - 115 KV CURRENT TRANSFORMER SUPPORT	Bechtel		Feb-11
TSE-5	Approval	STE/Civil	Calculation	25542-000-SSC-3510-00003	STRUCTURAL CALC - 115 KV SURGE ARRESTER SUPPORT	Bechtel		Mar-11
TSE-5	Approval	STE/Civil	Calculation	25542-000-SSC-3510-00004	STRUCTURAL CALC - 115 KV VOLTAGE TRANSFORMER SUPPORT	Bechtel		Mar-11
TSE-5	Approval	STE/Civil	Calculation	25542-000-SSC-3510-00005	STRUCTURAL CALC - 115 KV DISCONNECT SWITCH STEEL SUPPORT	Bechtel		Mar-11
TSE-5	Approval	STE/Elect.	Data Sheet	25542-000-V1A-EMC3-000##	DATA SHEET FOR HV CURRENT TRANSFORMER	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Data Sheet	25542-000-V1A-EMT3-000##	DATA SHEET FOR VOLTAGE TRANSFORMER	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Data Sheet	25542-000-V1A-ENA3-000##	DATA SHEET FOR HV CIRCUIT BREAKER	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Data Sheet	25542-000-V1A-EWZ0-000##	DATA SHEET FOR HIGH VOLTAGE UNDERGROUND CABLE	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Calculation	25542-001-V1A-EWZ0-000##	FOUNDATION CALC - 115 KV OHTL TAKEOFF TOWER	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Calculation	25542-001-V1A-EWZ0-000##	STRUCTURAL CALC - 115 KV OHTL TAKEOFF TOWER	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Drawing	25542-001-V1A-EWZ0-000##	UNDERGROUND TRANSMISSION LINE ROUTING	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Drawing	25542-001-V1A-EWZ0-000##	OVERHEAD TRANSMISSION LINE - 115 KV UNDERGROUND CABLE TRANSITION YARD GENERAL ARRANGEMENT	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Drawing	25542-001-V1A-EWZ0-000##	OVERHEAD TRANSMISSION LINE - 115 KV UNDERGROUND CABLE TRANSITION YARD SECTIONS AND DETAILS	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Drawing	25542-002-V1A-EWZ0-000##	UNDERGROUND TRANSMISSION LINE ROUTING	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Drawing	25542-003-V1A-EWZ0-000##	UNDERGROUND TRANSMISSION LINE ROUTING	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Data Sheet	25542-000-V1A-EYG3-000##	DATA SHEET FOR HV SURGE ARRESTER	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Calculation	25542-002-V1A-EZ00-000##	FOUNDATION CALC - 115 KV OVERHEAD TRANSMISSION LINE POLES	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Calculation	25542-002-V1A-EZ00-000##	LOADING TREE CALCULATION OVERHEAD TRANSMISSION LINE POLES	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-002-V1A-EZ00-000##	OVERHEAD TRANSMISSION LINE PLAN AND PROFILE	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-002-V1A-EZ00-000##	OVERHEAD TRANSMISSION LINE STRINGING CHART	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-002-V1A-EZ00-000##	FOUNDATIONS OVERHEAD TRANSMISSION LINE POLES	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-002-V1A-EZ00-000##	LOADING TREE DIAGRAM FOR OVERHEAD TRANSMISSION LINE POLES	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Drawing	25542-002-V1A-EZ00-000##	OVERHEAD TRANSMISSION LINE CONDUCTOR & SHIELD WIRE PLAN	Vendor		Jan-11
TSE-5	Approval	STE/Elect.	Drawing	25542-002-V1A-EZ00-000##	OVERHEAD TRANSMISSION LINE - 115 KV UNDERGROUND CABLE TRANSITION YARD GENERAL ARRANGEMENT	Vendor		Jan-11
TSE-5	Approval	STE/Elect.	Drawing	25542-002-V1A-EZ00-000##	OVERHEAD TRANSMISSION LINE - 115 KV UNDERGROUND CABLE TRANSITION YARD SECTIONS AND DETAILS	Vendor		Jan-11
TSE-5	Approval	STE/Civil	Calculation	25542-003-V1A-EZ00-000##	FOUNDATION CALC - 115 KV OVERHEAD TRANSMISSION LINE POLES	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Calculation	25542-003-V1A-EZ00-000##	LOADING TREE CALCULATION OVERHEAD TRANSMISSION LINE	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-003-V1A-EZ00-000##	OVERHEAD TRANSMISSION LINE PLAN AND PROFILE	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-003-V1A-EZ00-000##	OVERHEAD TRANSMISSION LINE STRINGING CHART	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-003-V1A-EZ00-000##	FOUNDATIONS OVERHEAD TRANSMISSION LINE POLES	Vendor		Feb-11
TSE-5	Approval	STE/Civil	Drawing	25542-003-V1A-EZ00-000##	LOADING TREE DIAGRAMS FOR OVERHEAD TRANSMISSION LINE	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Drawing	25542-003-V1A-EZ00-000##	OVERHEAD TRANSMISSION LINE CONDUCTOR & SHIELD WIRE PLAN	Vendor		Jan-11
TSE-5	Approval	STE/Elect.	Drawing	25542-003-V1A-EZ00-000##	OVERHEAD TRANSMISSION LINE - 115 KV UNDERGROUND CABLE TRANSITION YARD GENERAL ARRANGEMENT	Vendor		Jan-11
TSE-5	Approval	STE/Elect.	Drawing	25542-003-V1A-EZ00-000##	OVERHEAD TRANSMISSION LINE - 115 KV UNDERGROUND CABLE TRANSITION YARD SECTIONS AND DETAILS	Vendor		Jan-11
TSE-2	Approval	STE/Civil	Resume	25542-000-V1A-EWZ0-000##	Responsible Design Engineer for transmission structures Resume and Registration	Vendor		Feb-11
TSE-2	Approval	STE/Elect.	Resume	25542-000-V1A-EWZ0-000##	Responsible Electrical Engineer Resume and Registration	Vendor		Feb-11
TSE-2	Approval	STE/Elect.	Resume	25542-000-V1A-EZ00-000##	Responsible Design Engineer for transmission structures Resume and Registration	Vendor		Jan-11
TSE-2	Approval	Electrical	Resume	25542-000-V1A-EZ00-000##	Responsible Electrical Engineer Resume and Registration	Vendor		Jan-11
TSE-5	Approval	STE/Elect.	Calculation	25542-000-V1A-EWZ0-000##	UNDERGROUND TRANSMISSION LINE AMPACITY CALCULATION	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Document	25542-000-V1A-EWZ0-000##	DESIGN CRITERIA FOR UNDERGROUND TRANSMISSION LINE	Vendor		Feb-11
TSE-5	Approval	STE/Elect.	Document	25542-000-V1A-EWZ0-000##	DESIGN CRITERIA FOR OVERHEAD TRANSMISSION LINE	Vendor		Jan-11
STRUC-1	Approval	Civil	Drawing	25542-000-C0-0090-00001	CIVIL/STRUCTURAL STANDARDS - SITE WORK SHEET 1 GENERAL NOTES & LEGEND	Bechtel		04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-C0-0090-00002	CIVIL/STRUCTURAL STANDARDS - EROSION & SEDIMENT CONTROL SHEET 2 TYPICAL DETAILS	Bechtel		04-Jun-10 A



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STRUC-1	Approval	Civil	Drawing	25542-000-C0-0090-00003	CIVIL/STRUCTURAL STANDARDS - SITE WORK SHEET 3 TYPICAL FENCING SECTIONS & DETAILS	Bechtel		04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-C0-0090-00004	CIVIL/STRUCTURAL STANDARDS - SITE WORK SHEET 4 TYPICAL GRADING & SURFACING DETAILS	Bechtel		04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-D0-0090-00001	CIVIL/STRUCTURAL STANDARDS - CONCRETE SHEET 1 GENERAL NOTES & LEGEND	Bechtel		04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-D0-0090-00002	CIVIL/STRUCTURAL STANDARDS - CONCRETE SHEET 2 TYPICAL SECTIONS AND DETAILS	Bechtel		04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-D0-0090-00003	CIVIL/STRUCTURAL STANDARDS - CONCRETE SHEET 3 TYPICAL SECTIONS AND DETAILS	Bechtel		04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-D0-0090-00004	CIVIL/STRUCTURAL STANDARDS - CONCRETE SHEET 4 TYPICAL SECTIONS AND DETAILS	Bechtel		04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-S0-0090-00001	CIVIL/STRUCTURAL STANDARDS - STRUCTURAL STEEL SHEET 1 GENERAL NOTES AND LEGEND	Bechtel		04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-S0-0090-00002	CIVIL/STRUCTURAL STANDARDS - STRUCTURAL STEEL SHEET 2 TYPICAL SECTIONS AND DETAILS	Bechtel		04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-S0-0090-00003	CIVIL/STRUCTURAL STANDARDS - STRUCTURAL STEEL SHEET 3 TYPICAL SECTIONS AND DETAILS	Bechtel		04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-S0-0090-00004	CIVIL/STRUCTURAL STANDARDS - STRUCTURAL STEEL SHEET 4 TYPICAL SECTIONS AND DETAILS	Bechtel		04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-S0-0090-00005	CIVIL/STRUCTURAL STANDARDS - STRUCTURAL STEEL SHEET 5 TYPICAL SECTIONS AND DETAILS	Bechtel	ACC	04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-S0-0090-00006	CIVIL/STRUCTURAL STANDARDS - STRUCTURAL STEEL SHEET 6 TYPICAL SECTIONS AND DETAILS	Bechtel	STG	04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-S0-0090-00007	CIVIL/STRUCTURAL STANDARDS - STRUCTURAL STEEL SHEET 7 TYPICAL SECTIONS AND DETAILS	Bechtel	ACC	04-Jun-10 A
STRUC-1	Approval	Civil	Drawing	25542-000-S0-0090-00008	CIVIL/STRUCTURAL STANDARDS - STRUCTURAL STEEL SHEET 8 ERECTION & CONSTRUCTION TYPICAL SECTIONS AND DETAILS	Bechtel	STG	04-Jun-10 A
STRUC-1	Approval	Civil	Document	25542----	STATEMENT OF SPECIAL INSPECTIONS - BECTEL CIVIL/STRUCTURAL WORK (CBC CH. 17)	Bechtel		40525
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-C2-0000-00001	SITE PLAN	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-C2-0000-00002	VICINITY PLAN	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-C2-0000-00003	TOPOGRAPHY PLAN	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-009-C2-0010-00002	Common Area Construction Facilities Plan	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-C2-0010-00003	Power Block Construction Facilities Plan	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CD-0000-00001	Hydrology Map Pre-Development	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CD-0000-00002	Hydrology Map Post-Development	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-001-CD-0000-00001	Hydrology Map Post-Development Power Block	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-C2-0010-00001	FENCING PLAN - SHEET 1	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-C2-0010-00002	FENCING PLAN - SHEET 2	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CE-0010-00001	EROSION AND SEDIMENT CONTROL	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-001-CG-0010-00001	POWER BLOCK 1 - ROUGH GRADING & DRAINAGE PLAN	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-001-CG-0090-00001	POWER BLOCK 1 - ROUGH GRADING & DRAINAGE PROFILE & SECTIONS	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-002-CG-0010-00001	POWER BLOCK 2 - ROUGH GRADING & DRAINAGE PLAN	Bechtel		Mar-11
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-002-CG-0090-00001	POWER BLOCK 2 - ROUGH GRADING & DRAINAGE PROFILE & SECTIONS	Bechtel		Mar-11
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-003-CG-0010-00001	POWER BLOCK 3 - ROUGH GRADING & DRAINAGE PLAN	Bechtel		Feb-11
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-003-CG-0090-00001	POWER BLOCK 3 - ROUGH GRADING & DRAINAGE PROFILE & SECTIONS	Bechtel		Feb-11
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-009-CG-0010-00001	COMMON AREA - ROUGH GRADING PLAN	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-009-CG-0090-00001	COMMON AREA - ROUGH GRADING & DRAINAGE PROFILE & SECTIONS	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-009-CG-0011-00001	EPHEMERAL WASH CROSSINGS	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-001-CS-0010-00001	POWER BLOCK 1 - FINISH GRADING & PAVING PLAN	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-002-CS-0010-00001	POWER BLOCK 2 - FINISH GRADING & PAVING PLAN	Bechtel		Jul-11
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-003-CS-0010-00001	POWER BLOCK 3 - FINISH GRADING & PAVING PLAN	Bechtel		Jul-11
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-009-CS-0010-00001	COMMON AREA - FINISH GRADING PLAN	Bechtel		Jul-11
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00001	ROADWAY GRADING & PAVING PLAN - SHEET 1	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00002	ROADWAY GRADING & PAVING PLAN - SHEET 2	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00003	ROADWAY GRADING & PAVING PLAN - SHEET 3	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00004	ROADWAY GRADING & PAVING PLAN - SHEET 4	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00005	ROADWAY GRADING & PAVING PLAN - SHEET 5	Bechtel		04-Jun-10 A



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S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00006	ROADWAY GRADING & PAVING PLAN - SHEET 6	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00007	ROADWAY GRADING & PAVING PLAN - SHEET 7	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00008	ROADWAY GRADING & PAVING PLAN - SHEET 8	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00009	ROADWAY GRADING & PAVING PLAN - SHEET 9	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00010	ROADWAY GRADING & PAVING PLAN - SHEET 10	Bechtel		Mar-11
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00011	ROADWAY GRADING & PAVING PLAN - SHEET 11	Bechtel		Mar-11
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00012	ROADWAY GRADING & PAVING PLAN - SHEET 12	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Drawing	25542-000-CS-0010-00013	ROADWAY GRADING & PAVING PLAN - SHEET 13	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-0100-00001	POWER BLOCK SUMP PLAN & SECTIONS	Bechtel		Jan-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-0410-00001	Steam Turbine Platform FOUNDATION PLAN	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DB-0490-00001	Steam Turbine Platform FOUNDATION SECTIONS & DETAILS	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DB-1110-00001	Solar TOWER FOUNDATION PLAN	Bechtel		Dec-10
STRUC-1	Approval	Civil	Drawing	25542-000-DB-1120-00001	Solar TOWER ELEVATED SLAB PLANS	Bechtel		Dec-10
STRUC-1	Approval	Civil	Drawing	25542-000-DB-1190-00001	Solar TOWER FOUNDATION SECTIONS & DETAILS	Bechtel		Dec-10
STRUC-1	Approval	Civil	Drawing	25542-000-DB-1110-00001	Solar TOWER FOUNDATION REINFORCING PLAN	Bechtel		Dec-10
STRUC-1	Approval	Civil	Drawing	25542-000-DB-1190-00001	Solar TOWER FOUNDATION REINFORCING SECTIONS & DETAILS	Bechtel		Dec-10
STRUC-1	Approval	Civil	Drawing	25542-000-DB-1910-00001	AUXILIARY BOILER FOUNDATION - PLAN	Bechtel		Apr-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-1990-00001	AUXILIARY BOILER FOUNDATION SECTIONS & DETAILS	Bechtel		Apr-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-2110-00001	STEAM TURBINE ENCLOSURE BUILDING SLAB PLAN & SECTIONS	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DB-2110-00002	STEAM TURBINE AREA SLAB PLAN & SECTIONS	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DB-2410-00001	STEAM TURBINE FOUNDATION PLAN	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DB-2420-00001	STEAM TURBINE PEDESTAL PLAN	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DB-2490-00001	STEAM TURBINE SECTIONS & DETAILS	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DD-2420-00001	STEAM TURBINE PEDESTAL EMBEDDED PLATES PLAN	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DD-2490-00001	STEAM TURBINE PEDESTAL EMBEDDED PLATES SECTIONS & DETAILS	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DG-2410-00001	STEAM TURBINE FOUNDATION REINFORCING PLAN	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DG-2420-00001	STEAM TURBINE PEDESTAL REINFORCING PLAN	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DG-2490-00001	STEAM TURBINE SECTIONS & DETAILS	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DG-2490-00002	STEAM TURBINE SECTIONS & DETAILS	Bechtel		Jan-00
STRUC-1	Approval	Civil	Drawing	25542-000-DB-3110-00001	Plant Services Foundation PLAN	Bechtel		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-3210-00001	ELECTRICAL MODULE SLAB PLAN	Bechtel		May-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-3210-00002	ELECTRICAL MODULE SLAB PLAN	Bechtel		May-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-3310-00001	MCC TRANSFORMER FOUNDATION PLAN & SECTIONS	Bechtel		May-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-3410-00001	UNIT AUXILIARY & GENERATOR STEP-UP TRANSFORMER FOUNDATION PLAN	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-3490-00001	UNIT AUXILIARY & GENERATOR STEP-UP TRANSFORMER FOUNDATION SECTIONS	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-3710-00001	EMERGENCY DIESEL GENERATOR	Bechtel		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-3810-00001	GENERATOR CIRCUIT BREAKER & EXCITATION TRANSFORMER FOUNDATION PLAN	Bechtel		May-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-6110-00001	LUBE OIL/DIESEL UNLOADING & STG LAYDOWN AREA SLAB PLAN & SECTIONS	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-7110-00001	WATER TREATMENT AREA SLAB PLAN	Bechtel		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-7110-00002	WATER TREATMENT AREA EQUIPMENT PAD PLAN	Bechtel		May-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-7190-00001	WATER TREATMENT AREA SECTIONS & DETAILS	Bechtel		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-7210-00001	AIR COOLED CONDENSER FOUNDATIONS PLAN	Bechtel		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-7290-00001	AIR COOLED CONDENSER FOUNDATIONS SECTIONS & DETAILS	Bechtel		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-7211-00001	DRY DELUGED AUXILIARY COOLER FOUNDATION PLAN & SECTIONS	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-7610-00001	DEMINERALIZED WATER STORAGE TANK FOUNDATION PLAN	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-7610-00002	RAW WATER SUPPLY STORAGE TANK FOUNDATION PLAN	Bechtel		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-DB-7710-00001	WASTEWATER COLLECTION TANK FOUNDATION PLAN	Bechtel		May-11
STRUC-1	Approval	Civil	Drawing	25542-009-DB-9010-0000##	CPDU FOUNDATIONS (HELIOSTAT FIELD)	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-009-DB-9010-00001	MIRROR WASH TANK FOUNDATION PLAN	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-009-DB-0000-000##	Heliostat Building Foundation Drawing and Calculations	Bechtel		Dec-10
STRUC-1	Approval	Civil	Drawing	25542-000-SS-0410-00001	Steam Turbine Platform STRUCTURAL STEEL PLAN	Bechtel		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-SS-0490-00001	Steam Turbine Platform STRUCTURAL STEEL ELEVATIONS & SECTIONS	Bechtel		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-SS-1110-00001	Solar TOWER STRUCTURAL STEEL BASE PLATE PLAN	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-SS-1120-00001	Solar TOWER STRUCTURAL STEEL PLATFORM PLAN	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-SS-1130-00001	Solar TOWER STRUCTURAL STEEL PLATFORM PLANS	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-SS-1140-00001	Solar TOWER STRUCTURAL STEEL SUPPORT LEVEL PLAN	Bechtel		Mar-11



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STRUC-1	Approval	Civil	Drawing	25542-000-SS-1150-00001	Solar TOWER STRUCTURAL STEEL STAIR TOWER PLANS	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-SS-1190-00001	Solar TOWER STRUCTURAL STEEL ELEVATIONS	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-SS-1190-00002	Solar TOWER STRUCTURAL STEEL STAIR TOWER ELEVATIONS	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-SS-1190-00003	Solar TOWER STRUCTURAL STEEL BASE PLATE DETAILS	Bechtel		Mar-11
STRUC-1	Approval	Civil	Drawing	25542-000-SS-2110-00001	STEAM TURBINE STRUCTURAL STEEL PIPING RACK PLAN	Bechtel		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-SS-2110-00001	STEAM TURBINE STRUCTURAL STEEL PIPING PLATFORMS PLAN	Bechtel		Feb-11
STRUC-1	Approval	Civil	Drawing	25542-000-SS-2110-00001	STEAM TURBINE STRUCTURAL STEEL PIPING RACK ELEVATIONS & SECTIONS	Bechtel		Feb-11
S&W-1 / CIVIL-1	Approval	Civil	Calculation	25542-001-CGC-0000-00001	UNIT 1 STORMWATER AND SITE DRAINAGE DESIGN	Bechtel		04-Jun-10 A
S&W-1 / CIVIL-1	Approval	Civil	Calculation	25542-002-CGC-0000-00001	UNIT 2 STORMWATER AND SITE DRAINAGE DESIGN	Bechtel		24-Sep-10 A
S&W-1 / CIVIL-1	Approval	Civil	Calculation	25542-003-CGC-0000-00001	UNIT 3 STORMWATER AND SITE DRAINAGE DESIGN	Bechtel		Feb-11
S&W-1 / CIVIL-1	Approval	Civil	Calculation	25542-009-CGC-0000-00001	COMMON AREA STORMWATER AND SITE DRAINAGE DESIGN	Bechtel		04-Jun-10 A
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-0090-00001	REINFORCED CONCRETE REBAR EMBEDMENT/LAP BAR LENGTHS	Bechtel		Jul-10
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-0100-00001	POWER BLOCK SUMP	Bechtel		Feb-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-0410-00001	Steam Turbine Platform PIPE RACK FOUNDATIONS	Bechtel		Mar-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-1110-00001	Solar TOWER FOUNDATION	Bechtel		Dec-10
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-1120-00001	Solar TOWER ELEVATED SLAB	Bechtel		Dec-10
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-1910-00001	AUXILIARY BOILER FOUNDATION	Bechtel		Apr-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-2110-00001	STEAM TURBINE ENCLOSURE BUILDING SLAB	Bechtel		Jan-00
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-2410-00001	STEAM TURBINE FOUNDATION	Bechtel		Jan-00
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-2420-00001	STEAM TURBINE PEDESTAL	Bechtel		Jan-00
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-2490-00001	STEAM TURBINE PEDESTAL EMBEDDED PLATES	Bechtel		Jan-00
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-3110-00001	Plant Services Bldg Foundation	Bechtel		Feb-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-3210-00001	ELECTRICAL MODULE 1 SLAB	Bechtel		May-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-3210-00002	ELECTRICAL MODULE 2 SLAB	Bechtel		May-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-3310-00001	MCC TRANSFORMER FOUNDATION	Bechtel		May-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-3410-00001	UNIT AUXILIARY & GENERATOR STEP-UP TRANSFORMER FOUNDATION	Bechtel		Mar-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-3710-00001	EMERGENCY DIESEL GENERATOR FOUNDATION	Bechtel		Feb-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-3810-00001	GENERATOR CIRCUIT BREAKER & EXCITATION TRANSFORMER FOUNDATION	Bechtel		May-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-6110-00001	LUBE OIL/DIESEL UNLOADING AREA SLAB	Bechtel		Mar-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-7110-00001	WATER TREATMENT AREA SLAB	Bechtel		Feb-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-7110-00002	WATER TREATMENT AREA EQUIPMENT PAD	Bechtel		May-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-7210-00001	AIR COOLED CONDENSER FOUNDATIONS	Bechtel		Feb-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-7211-00001	DRY DELUGED AUXILIARY COOLER FOUNDATION SECTIONS & DETAILS	Bechtel		Mar-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-7610-00001	DEMINERALIZED WATER STORAGE TANK FOUNDATION	Bechtel		Mar-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-7610-00002	RAW WATER SUPPLY STORAGE TANK FOUNDATION	Bechtel		Feb-11
STRUC-1	Approval	Civil	Calculation	25542-000-DBC-7710-00001	WASTEWATER COLLECTION TANK FOUNDATION	Bechtel		May-11
STRUC-1	Approval	Civil	Calculation	25542-009-DBC-9010-000##	MIRROR WASH TANK FOUNDATION	Bechtel		Mar-11
STRUC-1	Approval	Civil	Calculation	25542-009-DBC-9010-000##	CPDU FOUNDATIONS (HELIOSTAT FIELD)	Bechtel		Mar-11
STRUC-1	Approval	Civil	Calculation	25542-009-DBC-0000-000##	Heliostat Bldg Foundation	Bechtel		Dec-10
STRUC-1	Approval	Civil	Calculation	25542-000-SSC-0410-00001	Steam Turbine platform PIPE RACK STRUCTURAL STEEL PLAN	Bechtel		Feb-11
STRUC-1	Approval	Civil	Calculation	25542-000-SSC-1110-00001	Solar TOWER STRUCTURAL STEEL BASE PLATE DESIGN	Bechtel		Mar-11
STRUC-1	Approval	Civil	Calculation	25542-000-SSC-1120-00001	Solar TOWER STRUCTURAL STEEL PLATFORM DESIGN	Bechtel		Mar-11
STRUC-1	Approval	Civil	Calculation	25542-000-SSC-1140-00001	Solar TOWER STRUCTURAL STEEL SUPPORT LEVEL DESIGN	Bechtel		Mar-11
STRUC-1	Approval	Civil	Calculation	25542-000-SSC-1150-00001	Solar TOWER STRUCTURAL STEEL STAIR TOWER	Bechtel		Mar-11
STRUC-1	Approval	Civil	Calculation	25542-000-SSC-2110-00001	STEAM TURBINE STRUCTURAL STEEL PIPE RACK	Bechtel		Feb-11
STRUC-1	Approval	Civil	Calculation	25542-000-SSC-2120-00001	STEAM TURBINE STRUCTURAL STEEL PIPING PLATFORMS	Bechtel		Feb-11
CIVIL-1 GEO-1	Approval	Civil	Document	25542-000-G27-GZC-00067	Geotechnical Report - Unit 1 & Common Facility	Vendor		Aug-10
CIVIL-1 GEO-1	Approval	Civil	Document	25542-000-K0R-0000-00001	Geotechnical Report - Units 2	Bechtel		Jan-11
CIVIL-1 GEO-1	Approval	Civil	Document	25542-000-K0R-0000-00001	Geotechnical Report - Units 3	Bechtel		Feb-11
S&W-1 / CIVIL-1	Approval	Civil	Specification	25542-000-3PS-CE01-00001	SITE PREPARATION AND EARTHWORK CONSTRUCTION	Bechtel		04-Jun-10 A
CIVIL-1	Approval	Civil	Specification	25542-000-3PS-CS01-00001	BITUMINOUS PAVING OF ROADS	Bechtel		Jul-11
STRUC-1	Approval	Civil	Specification	25542-000-3PS-DB01-00001	FURNISHING AND DELIVERING READY-MIX CONCRETE	Bechtel		7/15/2010 A
STRUC-1	Approval	Civil	Specification	25542-000-3PS-DB02-00001	CONCRETE WORK	Bechtel		7/15/2010 A
STRUC-1	Approval	Civil	Specification	25542-000-3PS-DD00-00001	PURCHASE OF EMBEDDED STEEL AND ANCHOR BOLTS	Bechtel		7/15/2010 A
STRUC-1	Approval	Civil	Specification	25542-000-3PS-DG01-00001	REINFORCING BAR	Bechtel		7/15/2010 A
STRUC-1	Approval	Civil	Specification	25542-000-3PS-SS01-00001	PURCHASE OF STRUCTURAL AND MISCELLANEOUS STEEL	Bechtel		Aug-10



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STRUC-1	Approval	Civil	Specification	25542-000-3PS-SS02-00001	ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL	Bechtel		Jan-11
STRUC-1	Approval	Civil	Specification	25542-000-3PS-SY01-00001	MATERIAL TESTING SERVICES FOR CONCRETE, EARTHWORK, AND PAVING	Bechtel		13-Aug-10 A
STRUC-1	Approval	Architectural	Drawing	25542-000-V1A-AKBS-000##	ARCHITECTURAL FLOOR PLANS, (including code analysis and access/egress information) ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
STRUC-1	Approval	Architectural	Drawing	25542-000-V1A-AKBS-000##	ARCHITECTURAL BUILDING ELEVATIONS AND SECTIONS , ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
STRUC-1	Approval	Architectural	Drawing	25542-000-V1A-AKBS-000##	ARCHITECTURAL BUILDING DETAILS , ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
STRUC-1	Approval	Architectural	Drawing	25542-000-V1A-AKBS-000##	ARCHITECTURAL SCHEDULES , ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
STRUC-1	Approval	Architectural	Drawing	25542-000-V1A-AKBS-000##	STRUCTURAL DRAWINGS, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
STRUC-1	Approval	Architectural	Document	25542-000-V1A-AKBS-000##	STATEMENT OF SPECIAL INSPECTIONS (CBC CH. 17), ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
STRUC-1	Approval	Architectural	Calculation	25542-000-V1A-AKBS-000##	STRUCTURAL CALCULATIONS, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
STRUC-1	Approval	Architectural	Drawing	25542-000-V1A-AKBS-000##	FOUNDATION DRAWINGS, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
STRUC-1	Approval	Architectural	Calculation	25542-000-V1A-AKBS-000##	FOUNDATION CALCULATIONS, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
MECH-3	Approval	Architectural	Drawing	25542-000-V1A-AKBS-000##	HVAC SYSTEM PLANS, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
MECH-3	Approval	Architectural	Calculation	25542-000-V1A-AKBS-000##	HVAC SYSTEM CALCULATIONS, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
MECH-1	Approval	Architectural	Drawing	25543-000-V1A-AKBS-000##	PLUMBING PLANS, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
MECH-1	Approval	Architectural	Drawing	25544-000-V1A-AKBS-000##	FIRE PROTECTION PLANS, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
MECH-1	Approval	Architectural	Calculation	25545-000-V1A-AKBS-000##	FIRE PROTECTION CALCULATIONS, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Feb-11
ELEC-1	Approval	Architectural	Drawing	25546-000-V1A-AKBS-000##	ELECTRICAL SINGLE LINE DRAWING, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Mar-11
ELEC-1	Approval	Architectural	Drawing	25547-000-V1A-AKBS-000##	ELECTRICAL PANEL SCHEDULES, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Mar-11
ELEC-1	Approval	Architectural	Calculation	25548-000-V1A-AKBS-000##	LIGHTING AND ELECTRICAL DESIGN CALCULATIONS, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Mar-11
STRUC-1 / MECH-1	Approval	Architectural	Document	25548-000-V1A-AKBS-000##	CERTIFICATE(S) OF COMPLIANCE, ADMIN/MAINTENANCE/WAREHOUSE BUILDING	Vendor		Sep-11
GEN-5	Approval	Architectural	Document	25542-000-V1A-AKBS-000##	BUILDING	Vendor		Jan-11
STRUC-1	Approval	Architectural	Drawing	25542-000-V1B-AKBS-000##	ARCHITECTURAL FLOOR PLANS, HELIOSTAT BUILDING (including code analysis and access/egress information)	Vendor		Jan-11
STRUC-1	Approval	Architectural	Drawing	25542-000-V1B-AKBS-000##	ARCHITECTURAL BUILDING ELEVATIONS AND SECTIONS , HELIOSTAT BUILDING	Vendor		Jan-11
STRUC-1	Approval	Architectural	Drawing	25542-000-V1B-AKBS-000##	ARCHITECTURAL BUILDING DETAILS , HELIOSTAT BUILDING	Vendor		Jan-11
STRUC-1	Approval	Architectural	Drawing	25542-000-V1B-AKBS-000##	ARCHITECTURAL SCHEDULES , HELIOSTAT BUILDING	Vendor		Jan-11
STRUC-1	Approval	Architectural	Drawing	25543-001-V1B-AKBS-000##	STRUCTURAL DRAWINGS, HELIOSTAT BUILDING (including design criteria and structural observations)	Vendor		Jan-11
STRUC-1	Approval	Architectural	Document	25543-001-V1B-AKBS-000##	STATEMENT OF SPECIAL INSPECTIONS (CBC CH. 17), HELIOSTAT BUILDING	Vendor		Jan-11
STRUC-1	Approval	Architectural	Calculation	25544-002-V1B-AKBS-000##	STRUCTURAL CALCULATIONS, HELIOSTAT BUILDING (including design criteria and structural observations)	Vendor		Jan-11
MECH-3	Approval	Architectural	Drawing	25545-003-V1B-AKBS-000##	HVAC SYSTEM PLANS, HELIOSTAT BUILDING	Vendor		Jan-11
MECH-3	Approval	Architectural	Calculation	25546-004-V1B-AKBS-000##	HVAC SYSTEM CALCULATIONS, HELIOSTAT BUILDING	Vendor		Jan-11
MECH-1	Approval	Architectural	Drawing	25547-005-V1B-AKBS-000##	FIRE PROTECTION PLANS, HELIOSTAT BUILDING (including product data submittals)	Vendor		Jan-11
MECH-1	Approval	Architectural	Calculation	25548-006-V1B-AKBS-000##	FIRE PROTECTION CALCULATIONS, HELIOSTAT BUILDING	Vendor		Jan-11
ELEC-1	Approval	Architectural	Drawing	25550-008-V1B-AKBS-000##	ELECTRICAL PANEL SCHEDULES, HELIOSTAT BUILDING	Vendor/Bechtel		Mar-11
ELEC-1	Approval	Architectural	Calculation	25551-009-V1B-AKBS-000##	LIGHTING AND ELECTRICAL DESIGN CALCULATIONS, HELIOSTAT BUILDING	Vendor		Mar-11
STRUC-1 / MECH-1 / ELEC-1	Approval	Architectural	Document	25552-010-V1B-AKBS-000##	CERTIFICATE(S) OF COMPLIANCE, HELIOSTAT BUILDING	Vendor		Sep-11
GEN-5	Approval	Architectural	Resume	25553-011-V1B-AKBS-000##	RESPONSIBLE ENGINEER(S) RESUME(S), HELIOSTAT BUILDING	Vendor		Dec-10
STRUC-1	Approval	Architectural	Drawing	25542-000-V1C-AKBS-000##	ARCHITECTURAL FLOOR PLANS, PLANT SERVICES BUILDING	Vendor		Dec-10
STRUC-1	Approval	Architectural	Drawing	25542-000-V1C-AKBS-000##	ARCHITECTURAL BUILDING ELEVATIONS AND SECTIONS , PLANT SERVICES BUILDING	Vendor		Dec-10
STRUC-1	Approval	Architectural	Drawing	25542-000-V1C-AKBS-000##	ARCHITECTURAL BUILDING DETAILS , PLANT SERVICES BUILDING	Vendor		Dec-10
STRUC-1	Approval	Architectural	Drawing	25542-000-V1C-AKBS-000##	ARCHITECTURAL SCHEDULES , PLANT SERVICES BUILDING	Vendor		Dec-10
STRUC-1	Approval	Architectural	Drawing	25543-001-V1C-AKBS-000##	STRUCTURAL DRAWINGS, PLANT SERVICES BUILDING	Vendor		Dec-10



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Condition of Certification	Submittal Reason - "Approval" or "Reference"	Responsible Discipline	Document Type	Document Number	Title	Bechtel/ Vendor/ Owner	Remarks	Forecast Submittal Date
STRUC-1	Approval	Architectural	Document	25543-001-V1C-AKBS-000##	STATEMENT OF SPECIAL INSPECTIONS (CBC CH. 17), PLANT SERVICES BUILDING	Vendor		Dec-10
STRUC-1	Approval	Architectural	Calculation	25544-002-V1C-AKBS-000##	STRUCTURAL CALCULATIONS, PLANT SERVICES BUILDING	Vendor		Dec-10
MECH-3	Approval	Architectural	Drawing	25545-003-V1C-AKBS-000##	HVAC SYSTEM PLANS, PLANT SERVICES BUILDING	Vendor		Dec-10
MECH-3	Approval	Architectural	Calculation	25546-004-V1C-AKBS-000##	HVAC SYSTEM CALCULATIONS, PLANT SERVICES BUILDING	Vendor		Dec-10
MECH-1	Approval	Architectural	Drawing	25547-005-V1C-AKBS-000##	FIRE PROTECTION PLANS, PLANT SERVICES BUILDING	Vendor		Dec-10
MECH-1	Approval	Architectural	Calculation	25548-006-V1C-AKBS-000##	FIRE PROTECTION CALCULATIONS, PLANT SERVICES BUILDING	Vendor		Dec-10
ELEC-1	Approval	Architectural	Drawing	25549-007-V1C-AKBS-000##	ELECTRICAL SINGLE LINE DRAWING, PLANT SERVICES BUILDING	Vendor		Dec-10
ELEC-1	Approval	Architectural	Drawing	25550-008-V1C-AKBS-000##	ELECTRICAL PANEL SCHEDULES, PLANT SERVICES BUILDING	Vendor		Dec-10
ELEC-1	Approval	Architectural	Calculation	25551-009-V1C-AKBS-000##	LIGHTING AND ELECTRICAL DESIGN CALCULATIONS, PLANT SERVICES BUILDING	Vendor		Dec-10
STRUC-1 / MECH-1	Approval	Architectural	Document	25552-010-V1C-AKBS-000##	CERTIFICATE(S) OF COMPLIANCE, PLANT SERVICES BUILDING	Vendor		Jul-11
GEN-5	Approval	Architectural	Resume	25553-011-V1C-AKBS-000##	RESPONSIBLE ENGINEER(S) RESUME(S), PLANT SERVICES BUILDING	Vendor		22-Oct-10 A
ELEC-1	Approval	Electrical	Drawing	25542-001-E1-0000-00001	EY: Unit-1: Main Single Line Diagram	Bechtel		26-Aug-10 A
ELEC-1	Approval	Electrical	Drawing	25542-002-E1-0000-00001	EY: Unit-2/3: Main Single Line Diagram	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Drawing	25542-001-E1-EY00-00001	EY: Unit-1: Main Generation Single Line M & R Diagram (GSUT, UAT, GCB)	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-002-E1-EY00-00001	EY: Unit-2/3 Main Generation Single Line M & R Diagram (GSUT, UAT, GCB)	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-ES-00001	ES: Unit 4.16kV Switchgear Single Line M & R Diagram	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-009-E1-0000-00001	33kV System Single Line Diagram	Bechtel		25-Aug-10 A
ELEC-1	Approval	Electrical	Drawing	25542-001-E1-0000-00002	ES: Unit-1: Construction Power Single Line Diagram	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-002-E1-0000-00002	ES: Unit-2/3: Construction Power Single Line Diagram	Bechtel		20-Sep-10 A
ELEC-1	Approval	Electrical	Drawing	25542-009-E1-0000-00002	EC: Common Area, CCR and Admin Building Single Line M & R Diagram	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-009-E1-0000-00003	EC: HelioStat Building Single Line M & R Diagram	Bechtel		31-Aug-10 A
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-ED-00001	ED: Unit 125 VDC, 120 VAC and 480VAC UPS Single line M&R Diagram (Location: Plant Services Building)	Bechtel		22-Oct-10 A
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-ED-00002	ED: SRSG 480 and 120 VAC UPS Single line M&R Diagram-	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Drawing	25542-009-E1-ED-00001	ED: CCR 120 VAC UPS Single line M&R Diagram-	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-EK-00002	EC: Unit: 480V ESSENTIAL MCC # 1 (PSB) - Single Line M & R Diagram	Bechtel	120VAC Loads to be indicated	Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-EK-00003	EC: Unit: 480V ESSENTIAL MCC # 2 (STG) - Single Line M & R Diagram	Bechtel	120VAC Loads to be indicated	Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-EK-00004	EC: Unit: 480V STG MCC # 1 - Single Line M & R Diagram	Bechtel	120VAC Loads to be indicated	Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-EK-00005	EC: Unit: 480V STG MCC # 2 - Single Line M & R Diagram	Bechtel	120VAC Loads to be indicated	Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-EK-00006	EC: Unit: 480V Tower MCC - Single Line M & R Diagram	Bechtel	120VAC Loads to be indicated	Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-EK-00007	EC: Unit: 480V Common MCC - Single Line M & R Diagram	Bechtel	120VAC Loads to be indicated	Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-EK-00008	EC: Unit: 480V BOP MCC #1 (Water Treatment) - Single Line M & R Diagram	Bechtel	120VAC Loads to be indicated	Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-EK-00009	EC: Unit: 480V BOP MCC #2 (Water Treatment) - Single Line M & R Diagram	Bechtel	120VAC Loads to be indicated	Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-EK-000010	EC: Unit: 480V 480V ACC MCC# 1 - Single Line M & R Diagram	Bechtel	120VAC Loads to be indicated	Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-EK-000011	EC: Unit: 480V 480V ACC MCC# 2 - Single Line M & R Diagram	Bechtel	120VAC Loads to be indicated	Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-EK-000012	EC: Unit: 480V 480V ACC MCC# 3 - Single Line M & R Diagram	Bechtel	120VAC Loads to be indicated	Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E1-EK-000013	EC: Unit: 480V 480V ACC MCC# 4 - Single Line M & R Diagram	Bechtel	120VAC Loads to be indicated	Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ERJ-0000-00001	Unit: UG Raceway Notes Symbols and Details	Bechtel		28-Oct-10 A
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-7101-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN WATER TREATMENT AREA	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-7102-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN WATER TREATMENT AREA	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-7191-00001	UNIT 1: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS WATER TREATMENT AREA	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-7201-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN ACC AREA	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-7202-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN ACC AREA	Bechtel		Jan-11



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ELEC-1	Approval	Electrical	Drawing	25542-001-ER-7291-00001	UNIT 1: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS ACC AREA	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-3301-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN SWITCHYARD AREA	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-3391-00001	UNIT 1: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS SWITCHYARD AREA	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-2101-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN STEAM TURBINE AREA	Bechtel		Nov-10
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-2191-00001	UNIT 1: UNDERGROUND PLAN SECTIONS AND DETAILS STEAM TURBINE AREA	Bechtel		Nov-10
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-2102-00001	UNIT 1: EMBEDDED CONDUIT PLAN STEAM TURBINE PEDESTAL	Bechtel		Nov-10
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-2192-00001	UNIT 1: EMBEDDED CONDUIT SECTIONS AND DETAILS STEAM TURBINE PEDESTAL	Bechtel		Nov-10
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-1001-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN SRSG TOWER AREA	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-1002-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN SRSG TOWER AREA	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-1091-00001	UNIT 1: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS SRSG TOWER AREA	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-1901-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN AUX BOILER AREA	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-1991-00001	UNIT 1: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS AUX BOILER AREA	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-3001-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN PLANT SERVICES BUILDING CABLE PIT	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-3091-00001	UNIT 1: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS CABLE PIT	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-3101-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN PLANT SERVICES BUILDING AREA	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-3102-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN PLANT SERVICES BUILDING AREA	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-3191-00001	UNIT 1: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS PLANT SERVICES BUILDING AREA	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-1902-00001	UNIT 1: UNDERGROUND PLAN RACEWAY PLAN NIGHTTIME PRESERVATION AREA BOILER	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-1992-00001	UNIT 1: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS NIGHTTIME PRESERVATION BOILER AREA	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-7101-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN WATER TREATMENT AREA	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-7102-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN WATER TREATMENT AREA	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-7191-00001	UNIT 2: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS WATER TREATMENT AREA	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-7201-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN ACC AREA	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-7202-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN ACC AREA	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-7291-00001	UNIT 2: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS ACC AREA	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-3301-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN SWITCHYARD AREA	Bechtel		Aug-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-3391-00001	UNIT 2: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS SWITCHYARD AREA	Bechtel		Aug-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-2101-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN STEAM TURBINE AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-2191-00001	UNIT 2: UNDERGROUND PLAN SECTIONS AND DETAILS STEAM TURBINE AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-2102-00001	UNIT 2: EMBEDDED CONDUIT PLAN STEAM TURBINE PEDESTAL	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-2192-00001	UNIT 2: EMBEDDED CONDUIT SECTIONS AND DETAILS STEAM TURBINE PEDESTAL	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-1001-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN SRSG TOWER AREA	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-1002-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN SRSG TOWER AREA	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-1091-00001	UNIT 2: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS SRSG TOWER AREA	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-1901-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN AUX BOILER AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-1991-00001	UNIT 2: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS AUX BOILER AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-3001-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN PLANT SERVICES BUILDING CABLE PIT	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-3091-00001	UNIT 2: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS CABLE PIT	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-3101-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN PLANT SERVICES BUILDING AREA	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-3102-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN PLANT SERVICES BUILDING AREA	Bechtel		May-11



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Condition of Certification	Submittal Reason - "Approval" or "Reference"	Responsible Discipline	Document Type	Document Number	Title	Bechtel/ Vendor/ Owner	Remarks	Forecast Submittal Date
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-3191-00001	UNIT 2: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS PLANT SERVICES BUILDING AREA	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-1902-00001	UNIT 2: UNDERGROUND PLAN RACEWAY PLAN NIGHTTIME PRESERVATION AREA BOILER	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-1992-00001	UNIT 2: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS NIGHTTIME PRESERVATION BOILER AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-7101-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN WATER TREATMENT AREA	Bechtel		Aug-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-7102-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN WATER TREATMENT AREA	Bechtel		Aug-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-7191-00001	UNIT 3: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS WATER TREATMENT AREA	Bechtel		Aug-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-7201-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN ACC AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-7202-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN ACC AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-7291-00001	UNIT 3: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS ACC AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-3301-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN SWITCHYARD AREA	Bechtel		Nov-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-3391-00001	UNIT 3: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS SWITCHYARD AREA	Bechtel		Nov-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-2101-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN STEAM TURBINE AREA	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-2191-00001	UNIT 3: UNDERGROUND PLAN SECTIONS AND DETAILS STEAM TURBINE AREA	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-2102-00001	UNIT 3: EMBEDDED CONDUIT PLAN STEAM TURBINE PEDESTAL	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-2192-00001	UNIT 3: EMBEDDED CONDUIT SECTIONS AND DETAILS STEAM TURBINE PEDESTAL	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-1001-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN SRSG TOWER AREA	Bechtel		Jan-12
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-1002-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN SRSG TOWER AREA	Bechtel		Jan-12
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-1091-00001	UNIT 3: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS SRSG TOWER AREA	Bechtel		Jan-12
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-1901-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN AUX BOILER AREA	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-1991-00001	UNIT 3: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS AUX BOILER AREA	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-3001-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN PLANT SERVICES BUILDING CABLE PIT	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-3091-00001	UNIT 3: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS CABLE PIT	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-3101-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN PLANT SERVICES BUILDING AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-3102-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN PLANT SERVICES BUILDING AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-3191-00001	UNIT 3: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS PLANT SERVICES BUILDING AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-1902-00001	UNIT 3: UNDERGROUND PLAN RACEWAY PLAN NIGHTTIME PRESERVATION AREA BOILER	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-1992-00001	UNIT 3: UNDERGROUND PLAN RACEWAY SECTIONS AND DETAILS NIGHTTIME PRESERVATION BOILER AREA	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-7610-000##	COMMON: UNDERGROUND RACEWAY PLAN COMMON AREA WATER STORAGE FACILITIES	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-7690-000##	COMMON: UNDERGROUND RACEWAY SECTIONS AND DETAILS COMMON AREA FACILITIES	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-0010-000##	COMMON: UNDERGROUND RACEWAY PLAN COMMON AREA FACILITIES	Bechtel		Nov-10
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-8101-000##	COMMON: UNDERGROUND RACEWAY PLAN ADMIN BLDG & CENTRAL CONTROL ROOM	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-9101-000##	COMMON: EMBEDDED RACEWAY PLAN HELIOSTAT BUILDING FOUNDATION	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-9190-000##	COMMON: EMBEDDED RACEWAY SECTIONS AND DETAILS HELIOSTAT BUILDING AREA	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-9101-000##	COMMON: UNDERGROUND RACEWAY PLAN HELIOSTAT BUILDING	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-7601-000##	COMMON: UNDERGROUND RACEWAY PLAN WATER WELL AREAS	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-7601-000##	COMMON: UNDERGROUND RACEWAY PLAN FIRE WATER TANK AND PUMP AREA	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-9101-000##	Unit-1: HELIOSTAT FIELD UNDERGROUND RACEWAY PLAN	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-9101-000##	Unit-2: HELIOSTAT FIELD UNDERGROUND RACEWAY PLAN	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-9101-000##	Unit-3: HELIOSTAT FIELD UNDERGROUND RACEWAY PLAN	Bechtel		Aug-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-9190-000##	Unit-1: HELIOSTAT FIELD UNDERGROUND CABLE SECTIONS AND DETAILS	Bechtel		Feb-11



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Condition of Certification	Submittal Reason - "Approval" or "Reference"	Responsible Discipline	Document Type	Document Number	Title	Bechtel/ Vendor/ Owner	Remarks	Forecast Submittal Date
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-9190-000##	Unit-2: HELIOSTAT FIELD UNDERGROUND CABLE SECTIONS AND DETAILS	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-003-ER-9190-000##	Unit-3: HELIOSTAT FIELD UNDERGROUND CABLE SECTIONS AND DETAILS	Bechtel		Aug-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E4-3110-00001	Unit: Power Block Electrical bldg - Equip Layout	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Drawing	25542-000-V1A-EKL3-000##	Unit: EQUIPMENT LOCATION PLAN SRSG ELECTRICAL EQUIPMENT MODULE	Vendor		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-000-V1A-EKL3-000##	Unit: EQUIPMENT LOCATION PLAN STEAM TURBINE ELECTRICAL EQUIPMENT MODULE	Vendor		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-000-V1A-EKL3-000##	Unit: EQUIPMENT LOCATION PLAN WATER TREATMENT ELECTRICAL EQUIPMENT MODULE	Vendor		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-000-V1A-EKL3-000##	Unit: EQUIPMENT LOCATION PLAN ACC ELECTRICAL EQUIPMENT MODULE	Vendor		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E4-8110-000##	EQUIPMENT LOCATION PLAN ADMIN BLDG & CENTRAL CONTROL ROOM	Vendor		Mar-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ERJ-0000-00002	Unit: AG Raceway Notes Symbols and Details	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1010-000##	UNIT: RACEWAY PLAN SRSG TOWER PLAN EL. 100'-0"	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-1010-000##	UNIT 2/3: RACEWAY PLAN SRSG TOWER PLAN EL. 100'-0"	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1020-000##	UNIT: RACEWAY PLAN SRSG TOWER PLAN EL. 120'-0"	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-1020-000##	UNIT 2/3: RACEWAY PLAN SRSG TOWER PLAN EL. 120'-0"	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1030-000##	UNIT: RACEWAY PLAN SRSG TOWER PLAN EL. 140'-0"	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-1030-000##	UNIT 2/3: RACEWAY PLAN SRSG TOWER PLAN EL. 140'-0"	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1040-000##	UNIT: RACEWAY PLAN SRSG TOWER PLAN EL. 180'-0"	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1050-000##	UNIT: RACEWAY PLAN SRSG TOWER PLAN EL. 376'-0" AND EL. 415'-0"	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1110-000##	UNIT: ABOVEGROUND RACEWAY PLAN SRSG STRUCTURE PLAN ELEVATION - 1	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1120-000##	UNIT: ABOVEGROUND RACEWAY PLAN SRSG STRUCTURE PLAN ELEVATION - 2	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1130-000##	UNIT: ABOVEGROUND RACEWAY PLAN SRSG STRUCTURE PLAN ELEVATION - 3	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1140-000##	UNIT: ABOVEGROUND RACEWAY PLAN SRSG STRUCTURE PLAN ELEVATION - 4	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1150-000##	UNIT: ABOVEGROUND RACEWAY PLAN SRSG STRUCTURE PLAN ELEVATION - 5	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1190-000##	UNIT: ABOVEGROUND RACEWAY SECTIONS AND DETAILS SRSG STRUCTURE	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1910-000##	UNIT: ABOVEGROUND RACEWAY PLAN AUXILIARY BOILER AREA AT GRADE	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-1990-000##	UNIT: ABOVEGROUND RACEWAY SECTIONS AND DETAILS AUXILIARY BOILER AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-2110-000##	UNIT 1: RACEWAY PLAN TURBINE AREA PLAN EL 100'-0" AND EL. 111'-8"	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-2120-000##	UNIT 1: RACEWAY PLAN TURBINE AREA PLAN EL 126'-0"	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-2130-000##	UNIT 1: RACEWAY PLAN TURBINE AREA PLAN 138'-3"	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-001-ER-2190-000##	UNIT 1: RACEWAY SECTIONS AND DETAILS	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-2110-000##	UNIT 2/3: RACEWAY PLAN TURBINE AREA PLAN EL 100'-0" AND EL. 111'-8"	Bechtel		Mar-12
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-2120-000##	UNIT 2/3: RACEWAY PLAN TURBINE AREA PLAN EL 126'-0"	Bechtel		Mar-12
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-2130-000##	UNIT 2/3: RACEWAY PLAN TURBINE AREA PLAN 138'-3"	Bechtel		Mar-12
ELEC-1	Approval	Electrical	Drawing	25542-002-ER-2190-000##	UNIT 2/3: RACEWAY SECTIONS AND DETAILS	Bechtel		Mar-12
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-3001-000##	UNIT: ABOVEGROUND RACEWAY PLAN ELECTRICAL BLDG CABLE PIT	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-3110-000##	UNIT: ABOVEGROUND RACEWAY PLAN PSB BLDG	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-3310-000##	UNIT: ABOVEGROUND RACEWAY PLAN TRANSFORMER YARD AREA	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-7110-000##	UNIT: ABOVEGROUND RACEWAY PLAN WATER TREATMENT AT GRADE	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-7190-000##	UNIT: ABOVEGROUND RACEWAY SECTIONS AND DETAILS WATER TREATMENT AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-7210-000##	UNIT: ABOVEGROUND RACEWAY PLAN ACC AREA AT GRADE	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-7220-000##	UNIT: ABOVEGROUND RACEWAY PLAN ACC UPPER ELEVATIONS	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-000-ER-7290-000##	UNIT: ABOVEGROUND RACEWAY SECTIONS AND DETAILS ACC AREA	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-9111-000##	COMMON: ABOVEGROUND RACEWAY PLAN HELIOSTAT BUILDING	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-9191-000##	COMMON: ABOVEGROUND RACEWAY SECTIONS AND DETAILS HELIOSTAT BUILDING	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-8110-000##	Common: ABOVEGROUND RACEWAY RACEWAY PLAN ADMIN BLDG & CENTRAL CONTROL ROOM	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-8190-000##	Common: ABOVEGROUND RACEWAY RACEWAY SECTION AND DETAILS ADMIN BLDG & CENTRAL CONTROL ROOM	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-009-ER-7610-000##	Common: ABOVEGROUND RACEWAY RACEWAY PLAN COMMON AREA WATER STORAGE FACILITIES	Bechtel		Oct-11



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ELEC-1	Approval	Electrical	Drawing	25542-000-ER-9010-000##	HELIOSTAT FIELD ABOVEGROUND RACEWAY SECTIONS AND DETAILS (CDPU, WEATHER STATION CAMERA)	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EQJ-0000-00001	Cathodic Protection - Notes Symbols and Details	Bechtel		27-Aug-10 A
ELEC-1	Approval	Electrical	Drawing	25542-001-EQ-0010-00001	Unit-1: CATHODIC PROTECTION PLAN POWERBLOCK AREA	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-002-EQ-0010-00001	Unit-2: CATHODIC PROTECTION PLAN POWERBLOCK AREA	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EQ-9101-00001	Unit-3: CATHODIC PROTECTION PLAN POWERBLOCK AREA	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EQ-0000-00001	CATHODIC PROTECTION DETAILS	Bechtel		27-Aug-10 A
ELEC-1	Approval	Electrical	Drawing	25542-009-EQ-0010-00001	Common: CATHODIC PROTECTION NATURAL GAS PIPELINE	Bechtel		27-Aug-10 A
ELEC-1	Approval	Electrical	Drawing	25542-001-EQ-9101-00001	Unit-1: CATHODIC PROTECTION PLAN UG PIPING HELIOSTAT FIELD AREA	Bechtel		27-Aug-10 A
ELEC-1	Approval	Electrical	Drawing	25542-002-EQ-9101-00001	Unit-2: CATHODIC PROTECTION PLAN UG PIPING HELIOSTAT FIELD AREA	Bechtel		27-Aug-10 A
ELEC-1	Approval	Electrical	Drawing	25542-003-EQ-9101-00001	Unit-3: CATHODIC PROTECTION PLAN UG PIPING HELIOSTAT FIELD AREA	Bechtel		27-Aug-10 A
ELEC-1	Approval	Electrical	Drawing	25542-000-EGJ-0000-00001	Grounding - Notes Symbols and Details	Bechtel		03-Sep-10 A
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-0010-00001	Unit-1: Power Block Grounding Plan	Bechtel		Nov-10
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-0010-00001	Unit-2: Power Block Grounding Plan	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-0010-00001	Unit-3: Power Block Grounding Plan	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-7101-00001	UNIT 1: GROUNDING PLAN WATER TREATMENT AREA	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-7102-00001	UNIT 1: GROUNDING PLAN WATER TREATMENT AREA	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-7201-00001	UNIT 1: GROUNDING PLAN ACC AREA	Bechtel		Jan-00
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-7202-00001	UNIT 1: GROUNDING PLAN ACC AREA	Bechtel		Jan-00
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-3301-00001	UNIT 1: GROUNDING PLAN SWITCHYARD AREA	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-2101-00001	UNIT 1: GROUNDING PLAN STEAM TURBINE AREA	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-1001-00001	UNIT 1: GROUNDING PLAN SRSG TOWER AREA	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-1002-00001	UNIT 1: GROUNDING PLAN SRSG TOWER AREA	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-1901-00001	UNIT 1: GROUNDING PLAN AUX BOILER AREA	Bechtel		Aug-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-3101-00001	UNIT 1: GROUNDING PLAN PLANT SERVICES BUILDING AREA	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-3102-00001	UNIT 1: GROUNDING PLAN PLANT SERVICES BUILDING AREA	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-1902-00001	UNIT 1: GROUNDING PLAN NIGHTTIME PRESERVATION AREA BOILER	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-7101-00001	UNIT 2: GROUNDING PLAN WATER TREATMENT AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-7102-00001	UNIT 2: GROUNDING PLAN WATER TREATMENT AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-7201-00001	UNIT 2: GROUNDING PLAN ACC AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-7202-00001	UNIT 2: GROUNDING PLAN ACC AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-3301-00001	UNIT 2: GROUNDING PLAN SWITCHYARD AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-2101-00001	UNIT 2: GROUNDING PLAN STEAM TURBINE AREA	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-1001-00001	UNIT 2: GROUNDING PLAN SRSG TOWER AREA	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-1002-00001	UNIT 2: GROUNDING PLAN SRSG TOWER AREA	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-1901-00001	UNIT 2: GROUNDING PLAN AUX BOILER AREA	Bechtel		Aug-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-3101-00001	UNIT 2: GROUNDING PLAN PLANT SERVICES BUILDING AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-3102-00001	UNIT 2: GROUNDING PLAN PLANT SERVICES BUILDING AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-1902-00001	UNIT 2: GROUNDING PLAN NIGHTTIME PRESERVATION AREA BOILER	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-7101-00001	UNIT 3: GROUNDING PLAN WATER TREATMENT AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-7102-00001	UNIT 3: GROUNDING PLAN WATER TREATMENT AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-7201-00001	UNIT 3: GROUNDING PLAN ACC AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-7202-00001	UNIT 3: GROUNDING PLAN ACC AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-3301-00001	UNIT 3: GROUNDING PLAN SWITCHYARD AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-2101-00001	UNIT 3: GROUNDING PLAN STEAM TURBINE AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-1001-00001	UNIT 3: GROUNDING PLAN SRSG TOWER AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-1002-00001	UNIT 3: GROUNDING PLAN SRSG TOWER AREA	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-1901-00001	UNIT 3: GROUNDING PLAN AUX BOILER AREA	Bechtel		Aug-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-3101-00001	UNIT 3: GROUNDING PLAN PLANT SERVICES BUILDING AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-3102-00001	UNIT 3: GROUNDING PLAN PLANT SERVICES BUILDING AREA	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-1902-00001	UNIT 3: GROUNDING PLAN NIGHTTIME PRESERVATION AREA BOILER	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EG-3101-00001	UNIT 1: Electrical Service Building Area Grounding Plan	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EG-3101-00001	UNIT 2: Electrical Service Building Area Grounding Plan	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-003-EG-3101-00001	UNIT 3: Electrical Service Building Area Grounding Plan	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EG-3101-00001	UNIT: Electrical Service Building Area Grounding Plan	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-009-EG-8101-000##	Common: Admin Building Area and CCR Grounding Plan	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-009-EG-9101-000##	Common: Heliostat Building Area Grounding Plan	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-009-EG-7601-000##	Common: Common Area Grounding Plan	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EG-0010-000##	Unit: Lightning Protection Key Plan	Bechtel		Feb-11



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ELEC-1	Approval	Electrical	Drawing	25542-000-EG-1160-000##	Unit: Lightning Protection Plan: Boiler Structure	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EG-3110-000##	Unit: Lightning Protection Plan: PS Admin Building	Vendor		Mar-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EG-2111-000##	Unit: Lightning Protection STG Enclosure	Bechtel		Jun-11
VIS-4	Approval	Electrical	Drawing	25542-000-ELJ-0000-00001	Unit: Lighting - Notes, Symbols and Details	Bechtel		Nov-10
VIS-4	Approval	Electrical	Drawing	25542-000-EL-0010-000##	UNIT: ROADWAY LIGHTING PLAN	Bechtel		Jan-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-0010-000##	UNIT: CONSTRUCTION LIGHTING PLAN	Bechtel		03-Sep-10 A
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1010-000##	UNIT: LIGHTING PLAN SRSG TOWER PLAN EL. 100'-0"	Bechtel		Feb-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1020-000##	UNIT: LIGHTING PLAN SRSG TOWER PLAN EL. 120'-0"	Bechtel		Feb-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1030-000##	UNIT: LIGHTING PLAN SRSG TOWER PLAN EL. 140'-0"	Bechtel		Feb-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1040-000##	UNIT: LIGHTING PLAN SRSG TOWER PLAN EL. 180'-0"	Bechtel		Feb-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1050-000##	UNIT: LIGHTING PLAN SRSG TOWER PLAN EL. 376'-0" AND EL. 415'-0"	Bechtel		Feb-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1110-000##	UNIT: LIGHTING PLAN SRSG STRUCTURE ELEVATION - 1	Bechtel		May-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1120-000##	UNIT: LIGHTING PLAN SRSG STRUCTURE ELEVATION - 2	Bechtel		May-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1130-000##	UNIT: LIGHTING PLAN SRSG STRUCTURE ELEVATION - 3	Bechtel		May-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1140-000##	UNIT: LIGHTING PLAN SRSG STRUCTURE ELEVATION - 4	Bechtel		May-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1150-000##	UNIT: LIGHTING PLAN SRSG STRUCTURE ELEVATION - 5	Bechtel		May-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1160-000##	UNIT: LIGHTING PLAN SRSG AVIATION WARNING	Bechtel		Apr-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1090-000##	UNIT: LIGHTING PLAN TOWER STRUCTURE STAIRWAY	Bechtel		Feb-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1910-000##	Unit: LIGHTING PLAN AUXILIARY BOILER AREA AT GRADE	Bechtel		Mar-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-1990-000##	Unit: LIGHTING PLAN AUXILIARY BOILER AREA ELEVATION & SECTIONS	Bechtel		Mar-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-2110-000##	UNIT: LIGHTING TURBINE AREA PLAN EL 100'-0" AND EL. 111'-8"	Bechtel		Jun-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-2120-000##	UNIT: LIGHTING TURBINE AREA PLAN EL 126'-0"	Bechtel		Jun-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-2130-000##	UNIT: LIGHTING TURBINE AREA PLAN 138'-3"	Bechtel		Jun-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-2190-000##	Unit: MISCELLANEOUS LIGHTING STEAM TURBINE AREA	Bechtel		Jun-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-3001-000##	Unit: LIGHTING PLAN ELECTRICAL BLDG CABLE PIT	Bechtel		Jan-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-3110-000##	Unit: LIGHTING PLAN ADMIN & ELECTRICAL BLDG	Vendor		Mar-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-3310-000##	Unit: LIGHTING PLAN TRANSFORMER YARD AREA	Bechtel		Mar-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-7110-000##	Unit: LIGHTING PLAN WATER TREATMENT AT GRADE	Bechtel		Mar-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-7210-000##	Unit: LIGHTING PLAN ACC AREA AT GRADE	Bechtel		Apr-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-7220-000##	Unit: LIGHTING PLAN ACC UPPER ELEVATIONS	Bechtel		Apr-11
VIS-4	Approval	Electrical	Drawing	25542-000-EL-7290-000##	Unit: LIGHTING PLAN ACC STAIRWAY	Bechtel		Apr-11
VIS-4	Approval	Electrical	Drawing	25542-009-EL-0010-000##	Common: LIGHTING SECTIONS AND DETAILS COMMON AREA FACILITIES (Guard Hs, Gate)	Bechtel		Feb-11
VIS-4	Approval	Electrical	Drawing	25542-009-EL-0010-000##	Common: COMMON AREA ROADWAY LIGHTING PLAN	Bechtel		08-Sep-10 A
VIS-4	Approval	Electrical	Drawing	25542-009-EL-0010-000##	Common: COMMON AREA CONSTRUCTION LIGHTING PLAN	Bechtel		31-Aug-10 A
VIS-4	Approval	Electrical	Drawing	25542-009-V1A-AKBS-000##	Common: LIGHTING RACEWAY PLAN ADMIN BLDG & CENTRAL CONTROL ROOM	Vendor		Mar-11
VIS-4	Approval	Electrical	Drawing	25542-009-EL-9111-000##	Common: LIGHTING PLAN HELIOSTAT BUILDING	Bechtel		Jan-11
VIS-4	Approval	Electrical	Drawing	25542-009-EL-9111-000##	Common: LIGHTING RACEWAY PLAN HELIOSTAT BUILDING (PARKING LOT, TRANSFORMER)	Bechtel		Jan-11
VIS-4	Approval	Electrical	Drawing	25542-000-V1A-EKL3-00004	Unit: LIGHTING PLAN SRSG ELECTRICAL EQUIPMENT MODULE	Vendor		Apr-11
VIS-4	Approval	Electrical	Drawing	25542-000-V1A-EKL3-00002	Unit: LIGHTING PLAN STEAM TURBINE ELECTRICAL EQUIPMENT MODULE	Vendor		Apr-11
VIS-4	Approval	Electrical	Drawing	25542-000-V1A-EKL3-00001	Unit: LIGHTING PLAN WATER TREATMENT ELECTRICAL EQUIPMENT MODULE	Vendor		Apr-11
VIS-4	Approval	Electrical	Drawing	25542-000-V1A-EKL3-00003	Unit: LIGHTING PLAN ACC ELECTRICAL EQUIPMENT MODULE	Vendor		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1010-000##	UNIT 1: HEAT TRACE PLAN SRSG TOWER PLAN EL. 100'-0"	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EH-1010-000##	UNIT 2/3: UNIT: HEAT TRACE PLAN SRSG TOWER PLAN EL. 100'-0"	Bechtel		Jan-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1020-000##	UNIT: UNIT: HEAT TRACE PLAN SRSG TOWER PLAN EL. 120'-0"	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EH-1020-000##	UNIT 2/3: UNIT: HEAT TRACE PLAN SRSG TOWER PLAN EL. 120'-0"	Bechtel		Jan-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1030-000##	UNIT: UNIT: HEAT TRACE PLAN SRSG TOWER PLAN EL. 140'-0"	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EH-1030-000##	UNIT 2/3: UNIT: HEAT TRACE PLAN SRSG TOWER PLAN EL. 140'-0"	Bechtel		Jan-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1040-000##	UNIT: UNIT: HEAT TRACE PLAN SRSG TOWER PLAN EL. 180'-0"	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1050-000##	UNIT: UNIT: HEAT TRACE PLAN SRSG TOWER PLAN EL. 376'-0" AND EL. 415'-0"	Bechtel		Jan-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1090-000##	UNIT: MISCELLANEOUS HEAT TRACING BOILER STRUCTURE AREA	Bechtel		Apr-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1110-000##	UNIT: HEAT TRACING PLAN SRSG STRUCTURE ELEVATION - 1	Vendor		Apr-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1120-000##	UNIT: HEAT TRACING PLAN SRSG STRUCTURE ELEVATION - 2	Vendor		Apr-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1130-000##	UNIT: HEAT TRACING PLAN SRSG STRUCTURE ELEVATION - 3	Vendor		Apr-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1140-000##	UNIT: HEAT TRACING PLAN SRSG STRUCTURE ELEVATION - 4	Vendor		Apr-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1150-000##	UNIT: HEAT TRACING PLAN SRSG STRUCTURE ELEVATION - 5	Vendor		Apr-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1910-000##	UNIT: HEAT TRACING PLAN AUXILIARY BOILER AREA AT GRADE	Bechtel		Apr-12



**Ivanpah Solar Electric Generating Facility
Master Document List
Conditions of Certification GEN-2 and TSE-1**

Condition of Certification	Submittal Reason - "Approval" or "Reference"	Responsible Discipline	Document Type	Document Number	Title	Bechtel/ Vendor/ Owner	Remarks	Forecast Submittal Date
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-1990-000##	UNIT: HEAT TRACING PLAN AUXILIARY BOILER AREA ELEVATION & SECTIONS	Bechtel		Apr-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-2110-000##	UNIT 1: HEAT TRACING PLAN TURBINE AREA PLAN EL 100'-0" AND EL. 111'-8"	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EH-2120-000##	UNIT 1: HEAT TRACING PLAN TURBINE AREA PLAN EL 126'-0"	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EH-2130-000##	UNIT 1: HEAT TRACING PLAN TURBINE AREA PLAN 138'-3"	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EH-2190-000##	UNIT 1: HEAT TRACING SECTIONS AND DETAILS	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EH-2110-000##	UNIT 2/3: HEAT TRACING PLAN TURBINE AREA PLAN EL 100'-0" AND EL. 113'-8"	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EH-2120-000##	UNIT 2/3: HEAT TRACING PLAN TURBINE AREA PLAN EL 126'-0"	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EH-2130-000##	UNIT 2/3: HEAT TRACING PLAN TURBINE AREA PLAN 138'-3"	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EH-2190-000##	UNIT 2/3: HEAT TRACING SECTIONS AND DETAILS	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-7110-000##	UNIT: HEAT TRACING PLAN WATER TREATMENT AT GRADE	Bechtel		Apr-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-7190-000##	UNIT: HEAT TRACING PLAN WATER TREATMENT ELEVATIONS & SECTIONS	Bechtel		Apr-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-7210-000##	UNIT: HEAT TRACING PLAN ACC AREA AT GRADE	Bechtel		Apr-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-7220-000##	UNIT: HEAT TRACING PLAN ACC UPPER ELEVATIONS	Bechtel		Apr-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-7290-000##	UNIT: HEAT TRACING PLAN ACC ELEVATIONS & SECTIONS	Bechtel		Apr-12
ELEC-1	Approval	Electrical	Drawing	25542-009-EH-7610-000##	Common: HEAT TRACE PLAN COMMON AREA WATER STORAGE FACILITIES	Bechtel		Aug-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-EH00-00001	Unit: Water Treatment Area Tracer Schedule	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EH-EH00-00001	Unit 2/3: STG Area Tracer Schedule	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-EH00-00002	Unit: STG Area Tracer Schedule	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EH-EH00-00003	Unit 2/3: Tower Area Tracer Schedule	Bechtel		Dec-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-EH00-00003	Unit: Tower Area Tracer Schedule	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-EH00-00004	Unit: SRSG Area Tracer Schedule	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-EH00-00005	Unit: ACC Area Tracer Schedule	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EH-EH00-00006	Unit: Aux Boiler Area Tracer Schedule	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-009-EH-EH01-00001	Common Area Tracer Schedule	Bechtel		May-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E3-1910-00001	Area Classification Plan Auxiliary Boiler and Fuel Gas Heater Areas	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-000-E3-1990-00001	Area Classification Sections and Details Auxiliary Boiler and Fuel Gas Heater Areas	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EC-EL00-000##	Unit: 208-120V AC Lighting Panel Schedule - Water Treatment Area	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EC-EL00-000##	Unit: 208-120V AC Lighting Panel Schedule - STG Area	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EC-EL00-000##	Unit: 2/3 208-120V AC Lighting Panel Schedule - STG Area	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EC-EL00-000##	Common: 208-120V AC Lighting Panel Schedule - Heliostat Building Area	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EC-EL00-000##	Unit: 208-120V AC Lighting Panel Schedule - PSB Building Area	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EC-EL00-000##	Unit: 208-120V AC Lighting Panel Schedule - Tower Area	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EC-EL00-000##	Unit: 208-120V AC Lighting Panel Schedule - SRSG Area	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EC-EL00-000##	Unit: 208-120V AC Lighting Panel Schedule - ACC Area	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EC-EL00-000##	Unit: 208-120V AC Lighting Panel Schedule - Aux Boiler Area	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EC-EL00-000##	Unit: 208-120V AC Lighting Panel Schedule - Road Lighting	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EC-EH00-000##	Unit: Water Treatment Area Heat Trace Panel Schedule	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EC-EH00-000##	Unit 1: STG Area Heat Trace Panel Schedule	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EC-EH00-000##	Unit 2/3: STG Area Heat Trace Panel Schedule	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-001-EC-EH00-000##	Unit: Tower Area Heat Trace Panel Schedule	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-002-EC-EH00-000##	Unit 2/3: Tower Area Heat Trace Panel Schedule	Bechtel		Jan-12
ELEC-1	Approval	Electrical	Drawing	25542-000-EC-EH00-000##	Unit: SRSG Area Heat Trace Panel Schedule	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EC-EH00-000##	Unit: ACC Area Heat Trace Panel Schedule	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Drawing	25542-000-EC-EH00-000##	Unit: Aux Boiler Area Heat Trace Panel Schedule	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Drawing	25542-009-EC-EH00-000##	Common: Water Storage Area Heat Trace Panel Schedule	Bechtel		Dec-11
ELEC-1	Approval	Electrical	Calculation	25542-000-E3C-ES-000##	Unit: Load Flow / Short Circuit and Motor Starting and voltage drop Calculation,	Bechtel		26-Oct-10 A
ELEC-1	Approval	Electrical	Calculation	25542-009-E3C-ES-000##	33kV System Load Flow / Short Circuit and Motor Starting and voltage drop Calculation,	Bechtel		Nov-10
ELEC-1	Approval	Electrical	Calculation	25542-001-EGC-EG-00001	Unit 1 Grounding Calculation	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Calculation	25542-002-EGC-EG-00001	Unit 2 Grounding Calculation	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Calculation	25542-003-EGC-EG-00001	Unit 3 Grounding Calculation	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Calculation	25542-009-EGC-EG-00001	Common Area Grounding Calculation	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Calculation	25542-000-EGC-EG-00002	Unit and Common: Lightning Protection Calculation	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Calculation	25542-000-E0C-EQ-00001	Unit 1: Cathodic Protection Calculation	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Calculation	25542-000-E0C-EQ-00001	Unit 2: Cathodic Protection Calculation	Bechtel		May-11
ELEC-1	Approval	Electrical	Calculation	25542-000-E0C-EQ-00001	Unit 3: Cathodic Protection Calculation	Bechtel		Oct-11
ELEC-1	Approval	Electrical	Calculation	25542-000-E0C-EQ-00001	Natural Gas Pipeline Cathodic Protection Calculation	Bechtel		27-Aug-10 A
ELEC-1	Approval	Electrical	Calculation	25542-000-E0C-EW-00002	Unit: Ductbank Ampacity & Underground cable sizing calculation	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Calculation	25542-009-E0C-EW-00001	Common: Ductbank Ampacity & Underground cable sizing calculation	Bechtel		Mar-11



**Ivanpah Solar Electric Generating Facility
Master Document List
Conditions of Certification GEN-2 and TSE-1**

Condition of Certification	Submittal Reason - "Approval" or "Reference"	Responsible Discipline	Document Type	Document Number	Title	Bechtel/Vendor/Owner	Remarks	Forecast Submittal Date
ELEC-1	Approval	Electrical	Calculation	25542-000-E0C-EW-00001	A/G Cable Sizing Calculation	Bechtel		20-Oct-10 A
ELEC-1	Approval	Electrical	Calculation	25542-001-E0C-EW-00001	Unit 1/2/3 : CPDU HelioStat field incomer cable sizing and voltage drop calculation	Bechtel		Dec-10
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Unit: Lighting Calculation Construction Lighting Common Area	Bechtel		31-Aug-10 A
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Unit: Lighting Calculation Construction Lighting Power Block	Bechtel		03-Sep-10 A
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Unit: Lighting Calculation ACC Area	Bechtel		Apr-11
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Unit: Lighting Calculation XFMR Area	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Unit: Lighting Calculation Water Treatment Area	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Unit: Lighting Calculation STG Area	Bechtel		Jun-11
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Unit: Lighting Calculation PSB Building Area	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Unit: Lighting Calculation Tower Area	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Unit: Lighting Calculation SRSG Area	Bechtel		May-11
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Unit: Lighting Calculation Aux Boiler Area	Bechtel		Mar-11
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Unit: Lighting Calculation Unit Roadway Lighting	Bechtel		Jan-11
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Lighting Calculation Common Area Roadway Lighting Plan	Bechtel		08-Sep-10 A
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Lighting Calculation HelioStat Building Area	Vendor		Jan-11
ELEC-1	Approval	Electrical	Calculation	25542-000-ELC-EL-000##	Unit and Common: Lighting Energy Calculations (for CBO)	Bechtel		Feb-11
ELEC-1	Approval	Electrical	Calculation	25542-000-EMC-EM00-000##	Unit: MV Switchgear and LV MCC incomer protective relay setting and arc flash calculation	Bechtel		05-Oct-09 A
ELEC-1	Approval	Electrical	Calculation	25542-009-EMC-EM00-000##	Common: Common Area LV Switchgear incomer protective relay setting and arc flash calculation	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Calculation	25542-000-EMC-EM00-000##	Unit: GSU, UAT, SST protective relay setting calculation	Bechtel		Sep-11
ELEC-1	Approval	Electrical	Calculation	25542-000-EMC-EM00-000##	Unit and Common: 33kV Switchgear and automatic recloser protective relay setting calculation	Bechtel		Jul-11
ELEC-1	Approval	Electrical	Document	25542-000-V1A-EKL1-000##	CERTIFICATE OF COMPLIANCE - 480V UNIT SUBSTATIONS (BLACK BOX)	Bechtel/Vendor		Apr-11
ELEC-1	Approval	Electrical	Document	25542-000-V1A-ESL1-000##	CERTIFICATE OF COMPLIANCE - 4.16KV SWITCHGEAR (BLACK BOX)	Bechtel/Vendor		Jun-11
ELEC-1	Approval	Electrical	Document	25542-000-V1A-ETP0-000##	CERTIFICATE OF COMPLIANCE - GENERATOR STEPUP TRANSFORMERS (BLACK BOX)	Bechtel/Vendor		Sep-11
ELEC-1	Approval	Electrical	Document	25542-000-V1A-ETP1-000##	CERTIFICATE OF COMPLIANCE - UNIT AUXILIARY (BLACK BOX)	Bechtel/Vendor		Sep-11
ELEC-1	Approval	Electrical	Document	25542-000-V1A-ECM1-000##	CERTIFICATE OF COMPLIANCE - 480V MCC'S (BLACK BOX)	Bechtel/Vendor		May-11
ELEC-1	Approval	Electrical	Document	25542-000-V1A-EDB0-000##	CERTIFICATE OF COMPLIANCE - 120/125V DC/UPS EQUIPMENT (BLACK BOX)	Bechtel/Vendor		Sep-11
ELEC-1	Approval	Electrical	Drawing	25542-000-V1A-MXHS-000##	CPDU SINGLE LINE DIAGRAM	Owner		Dec-10
ELEC-1	Approval	Electrical	Calculation	25542-000-V1A-MXHS-000##	HELIOSTAT FIELD CABLE VOLTAGE DROP CALCULATION	Owner		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-000-V1A-MXHS-000##	HELIOSTAT CABLE ASSEMBLY (including code analysis)	Owner		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-000-V1A-MXHS-000##	HELIOSTAT CABLE INSTALLATION DETAILS	Owner		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-000-V1A-MXHS-000##	HELIOSTAT CPDU GROUNDING	Owner		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-000-V1A-MXHS-000##	CAMERA PANEL SINGLE LINE	Owner		Dec-10
ELEC-1	Approval	Electrical	Drawing	25542-000-V1A-MXHS-000##	WEATHER STATION SINGLE LINE	Owner		Dec-10
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MXHS-000##	HELIOSTAT STRUCTURAL / PHYSICAL ASSEMBLY DESIGN DRAWINGS	Owner	May be submitted with pylon design package	Dec-10
STRUC-1	Approval	Civil	Caclulation	25542-000-V1A-MXHS-000##	HELIOSTAT STRUCTURAL / PHYSICAL ASSEMBLY DESIGN CALCULATIONS	Owner	May be submitted with pylon design package	Dec-10
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-MXHS-000##	PYLON STRUCTURAL DRAWINGS AND INSTALLATION SPECIFICATIONS	Owner	Separate submittal to the BLM and CPM is required per condition S&W-4	Dec-10
STRUC-1	Approval	Civil	Caclulation	25542-000-V1A-MXHS-000##	PYLON STRUCTURAL/GEOTECHNICAL CALCULATIONS	Owner	Separate submittal to the BLM and CPM is required per condition S&W-5	Dec-10
ELEC-1	Approval	Electrical	Drawing		HELIOSTAT FIELD TRANFORMER PAD GROUNDING	Bechtel		Oct-10
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-AK00S-000##	HELIOSTAT ASSEMBLY BUILDING SUPPORT FACILITIES (office & restroom trailers, etc.)	Bechtel		Nov-10
STRUC-1	Approval	Civil	Drawing	25542-000-V1A-AK00S-000##	HELIOSTAT ASSEMBLY BUILDING STRUCTURAL HOIST/CRANE SUPPORTS	Owner		Nov-10
MECH-2	Approval	Mechanical	Document	25542-000-V1A-AK00S-000##	HELIOSTAT ASSEMBLY BUILDING AIR COMPRESSOR CERTIFICATIONS	Owner		Nov-10

Exhibit 11

CBO Payment Documentation Conditions of Certification GEN-3

Condition of Certification GEN-3 Summary

Bureau Veritas has four invoices currently being processed by BrightSource Construction Management.

Invoice Number: 1098674
Invoice Date: 10/27/2010
Invoice Amount: \$198,934.95
Invoice Dates of Service: 9/1/2010 to 9/30/2010
Received by BrightSource Accounts Payable on 11/4/2010
Status: Invoice is currently being reviewed by BrightSource Construction Management.

Invoice Number: 1095650
Invoice Date: 9/27/2010
Invoice Amount: \$165,581.11
Invoice Dates of Service: 8/1/2010 to 8/31/2010
Received by BrightSource Accounts Payable on 11/17/2010
Status: Invoice is currently being reviewed by BrightSource Construction Management.

Invoice Number: 1100684
Invoice Date: 11/19/2010
Invoice Amount: \$256,034.36
Invoice Dates of Service: 10/1/2010 to 10/31/2010
Received by BrightSource Accounts Payable on 11/29/2010
Status: Invoice was approved by BrightSource Construction Management on 11/29/2010.

Invoice Number: 1100692
Invoice Date: 11/19/2010
Invoice Amount: \$79,479.98
Invoice Dates of Service: 10/1/2010 to 10/31/2010
Received by BrightSource Accounts Payable on 11/29/2010
Status: Invoice was approved by BrightSource Construction Management on 11/29/2010.

Exhibit 12

Key Events List Conditions of Certification COMP-6

KEY EVENTS LIST

PROJECT/POWER PLANT: Ivanpah SEGS

DOCKET #: 07-AFC-5C

BLM'S AUTHORIZED OFFICER: TOM HURSHMAN

COMPLIANCE PROJECT MANAGER: JOSEPH DOUGLAS

EVENT DESCRIPTION	DATE
Certification Date	09/22/2010
Obtain Site Control: ROW Grants Obtained	10/07/2010
Online Date	07/01/2013
POWER PLANT SITE ACTIVITIES	
Start Site Mobilization	10/04/2010
Start Ground Disturbance	10/08/2010
Start Grading	11/11/2010
Start Construction (Heliostat Bldg)	03/02/2011
Begin Pouring Major Foundation Concrete (SRSG Foundation)	02/07/2011
Begin Installation of Major Equipment (SRSG Load Module 1)	11/22/2011
Completion of Installation of Major Equipment (Turnover SRSG)	08/13/2012
First Roll of Steam Turbine	11/19/2012
Obtain Building Occupation Permit (Admin bldg)	12/15/2011
Start Commercial Operation	07/01/2013
Complete All Construction	04/30/2013
GENERATION TIE LINE ACTIVITIES	
Start Generation Tie Line Construction	TBD
Synchronization with Grid and Interconnection	TBD
Complete Generation Tie Line Construction	TBD
FUEL SUPPLY LINE ACTIVITIES	
Start Gas Pipeline Construction and Interconnection	08/29/11
Complete Gas Pipeline Construction	04/03/12
WATER SUPPLY LINE ACTIVITIES	
Start Water Supply Line Construction (Water Wells)	11/22/10
Complete Water Supply Line Construction (Tie-in UG Water Distribution)	03/12/12

Exhibit 13

Agency Approvals Conditions of Certification COMP-6

Tracie Wheaton

From: Larry_LaPre@blm.gov
Sent: Thursday, November 04, 2010 11:42 AM
To: Carol Watson; Joseph Douglas
Cc: bjones@dfg.ca.gov; Brian Croft; Amy_Fesnock@ca.blm.gov
Subject: Ivanpah compliance with BIO-9

Dear Ms Watson and Mr. Douglas:

On behalf of the Bureau of Land Management (BLM), I have reviewed the Desert Tortoise Translocation Plan, Revision 4, for the Ivanpah Solar Electric Generating System. Approval of this plan by the BLM was part of the Energy Commission's Condition of Certification BIO-9.

The BLM finds the Desert Tortoise Translocation Plan to be satisfactory and approves it for use at the Ivanpah project. The BLM recognizes that minor changes may take place as the project progresses, including the boundary changes of the translocation areas and the timing of clearance surveys and translocation of tortoises. The clearance surveys for Phase 1 have already been extended until November 10, 2010, for example.

Survival rates of translocated tortoises will be compared to a control population in order to distinguish between natural mortality factors and the effects of translocation. The control site location and assessment of the desert tortoise population there was not a part of the Translocation Plan. The BLM has been working with the BrightSource contractors to identify a suitable control site and prepare for a census, disease testing and translocating of desert tortoises in the spring of 2011.

Dr. Larry LaPre
District Wildlife Biologist
California Desert District
Bureau of Land Management
22835 Calle San Juan de los Lagos
Moreno Valley, CA 92553
Phone: (951) 697-5218
Fax: (951) 697-5299
E-mail: llapre@ca.blm.gov

From: Brian_Croft@fws.gov [mailto:Brian_Croft@fws.gov]
Sent: Friday, November 19, 2010 8:49 AM
To: Peter Woodman
Cc: Doug Davis; Becky Jones; Larry LaPre; Mercy Vaughn
Subject: Re: ISEGS 3 Pen Construction

The U.S. Fish and Wildlife Service agrees with penning of these animals until transmitters can be placed. Please give me a call if you have any questions.

Brian Croft
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
602 Tippecanoe Avenue
San Bernardino, California 92408
Phone: 909-382-2677

▼ Peter Woodman <Kivabio@aol.com>

Peter Woodman
<Kivabio@aol.com>

11/18/2010 09:17
PM

To Larry LaPre <Larry_LaPre@blm.gov>, Brian
Croft <Brian_Croft@fws.gov>, Becky Jones
<dfgpalm@roadrunner.com>

cc Mercy Vaughn <Manydogs10@aol.com>,
Doug Davis
<ddavis@brightsourceenergy.com>

Subject: ISEGS 3 Pen Construction

Larry, Brian, & Becky,

During surveys around the power block for ISEGS 3 fieldworkers have located 5 desert tortoises. The tortoises are all in burrows and there is no evidence they have been recently active but I would hate to lose them. I would like to erect pens around each of the burrows until such time that transmitters can be placed. Each pen would be circular in shape and include the burrow and at least one shrub. Generally the pens are 4 to 5 meters in diameter.

Most of the pens would probably be in place until next spring when tortoises become active and we can place a transmitter on them. At least one of the tortoises is less than 180 mm MCL. A roof would be placed over any tortoise less than 180 mm MCL. The pen would be constructed with 1x2 inch mesh and the bottom foot would be bent, placed on the surface, and covered with dirt. The pens would be checked twice per week.

Following will be a link to download a map of the tortoise locations.

Thank you,
Peter Woodman
(760) 861 3961

----- Original Message -----

From: [Larry LaPre@blm.gov](mailto:Larry_LaPre@blm.gov) <[Larry LaPre@blm.gov](mailto:Larry_LaPre@blm.gov)>

To: Peter Woodman <Kivabio@aol.com>

Cc: Brian Croft <Brian_Croft@fws.gov>; Doug Davis; Becky Jones <dfgpalm@roadrunner.com>; Mercy Vaughn <Manydogs10@aol.com>

Sent: Fri Nov 19 09:37:01 2010

Subject: ISEGS 3 Pen Construction

Peter,

As we discussed on the telephone, the BLM believes that the placement of temporary fencing around the new tortoise locations in ISEGS Unit 3 is an appropriate method of ensuring their safety during the winter. BLM understands that transmitters will be placed on these tortoises during warmer weather when they have emerged, which will probably be in the spring. At that time, the fences can be removed and the tortoises will be tracked on a regular basis.

Dr. Larry LaPre
District Wildlife Biologist
California Desert District
Bureau of Land Management
22835 Calle San Juan de los Lagos
Moreno Valley, CA 92553
Phone: (951) 697-5218
Fax: (951) 697-5299
E-mail: llapre@ca.blm.gov

Exhibit 14

MECH-1 & MECH-2 CBO Approvals Conditions of Certification MECH-1 & MECH-2

Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Friday, November 05, 2010 5:17 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00142 - CBO Submittal Package - MECH-1-1.03 - General Notes and Standard Details - PC2- Approved/Reference Only

Hello,

The Ivanpah submittal "MECH-1-1.03 - General Notes & Standard Details - PC2, General Notes and Standard Details," has been reviewed, approved and deemed reference only, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana
Project Coordinator – Power & Utilities
Bureau Veritas North America, Inc.
180 Promenade Circle #150
Sacramento, CA 95834
P: 916.514.4508
F: 916.617.2068
jamie.saldana@us.bureauveritas.com
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ISO 9001:2000 Certified

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Thursday, November 18, 2010 12:17 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00156 - CBO Submittal Package - MECH-1-1.08 - Common Facilities
PF Isometrics - PC1 - Approved/Reference Only

Hello,

The Ivanpah submittal "MECH-1-1.08 - Common Facilities PF Isometrics - PC1, Underground Piping Isos - Fire Protection Sys, " has been reviewed, approved and deemed reference only, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

Permit Technician – Power & Utilities

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Monday, November 29, 2010 3:13 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: Ivanpah - MECH-1-1.10 - Unit 2 FG Isometrics - PC1 - Approved

Hello,

The Ivanpah submittal "MECH-1-1.10 - Unit 2 FG Isometrics - PC1, underground piping isometrics - fuel gas system," has been reviewed, approved and deemed reference only, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

Permit Technician – Power & Utilities

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Exhibit 15

STRUC-1 CBO Approvals Condition of Certification STRUC-1

Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Tuesday, November 16, 2010 5:40 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00154 - CBO Submittal Package - STRUC-1-2.03 - Construction
Facilities Modular Office Calculations - PC1 - Approved

Hello,

The Ivanpah submittal "STRUC-1-2.03 - Construction Facilities Modular Office Calculations - PC1," has been reviewed and approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana
Project Coordinator – Power & Utilities
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Sacramento, CA 95834
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jamie.saldana@us.bureauveritas.com
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Exhibit 16

ELEC-1 CBO Approvals Condition of Certification ELEC-1

Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Thursday, November 04, 2010 2:00 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00137 - CBO Submittal Package - ELEC-1-1.02 - Construction Power Single Lines for Power Block and Common Area and Heliostat Assembly Building Main Single Line - PC2 -Approved / Conditionally Approved

Updated

Hello,

The Ivanpah submittal "ELEC-1-1.02 - Construction Power Single Lines for Power Block & Common Area and Heliostat Assembly Building Main Single Line - PC2," has been reviewed, approved and conditionally approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

Project Coordinator – Power & Utilities

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Thursday, November 04, 2010 11:42 AM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00133 - CBO Submittal Package - ELEC-1-1.02 - Construction Power Single Lines for Power Block and Common Area and Heliostat Assembly Building Main Single Line - PC2 -Approved

Hello,

The Ivanpah submittal "ELEC-1-1.02 - Construction Power Single Lines for Power Block & Common Area and Heliostat Assembly Building Main Single Line - PC2," has been reviewed and approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

Project Coordinator – Power & Utilities

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Thursday, November 04, 2010 1:22 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00134 - CBO Submittal Package - ELEC-1-1.05 - Unit 2 and 3 Main
Single Line Diagram - PC1 -Approved

Hello,

The Ivanpah submittal "ELEC-1-1.05 - Unit 2 & 3 Main Single Line Diagram - PC1," has been reviewed and approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

Project Coordinator – Power & Utilities

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Thursday, November 04, 2010 1:57 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00136 - CBO Submittal Package - ELEC-1-1.06 - 125DC, 480VAC
UPS, 120VAC UPS-PC1 - Conditionally Approved

Hello,

The Ivanpah submittal "ELEC-1-1.06 - 125DC, 480VAC UPS, 120VAC UPS-PC1," has been reviewed and Conditionally approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

Project Coordinator – Power & Utilities

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Monday, November 29, 2010 12:56 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00164 - CBO Submittal Package - ELEC-1-2.01 - Cathodic Protection for Natural Gas Piping-PC2 - Approved

Hello,

The Ivanpah submittal "ELEC-1-2.01 - Cathodic Protection for Natural Gas Piping-PC2," has been reviewed and approved you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

Permit Technician – Power & Utilities

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Thursday, November 04, 2010 1:43 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00135 - CBO Submittal Package - ELEC-1-4.01 - Construction
Roadway Lighting for Power Block, Heliostat Assembly Building & Admin Building Areas-PC2
-Approved

Hello,

The Ivanpah submittal "ELEC-1-4.01 - Construction Roadway Lighting for Power Block, Heliostat Assembly Building & Admin Building Areas-PC2," has been reviewed and approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana
Project Coordinator – Power & Utilities
Bureau Veritas North America, Inc.
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Sacramento, CA 95834
P: 916.514.4508
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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Monday, November 15, 2010 11:53 AM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00149 - CBO Submittal Package - ELEC-1-5.03 - Technical Specification for Generator Step-up Transformers (GSUT), Unit Auxiliary Transformers (UAT) - PC1 -Approved

Hello,

The Ivanpah submittal "ELEC-1-5.03 - Technical Specification for Generator Step-up Transformers (GSUT), Unit Auxiliary Transformers (UAT) - PC1," has been reviewed and approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

Project Coordinator – Power & Utilities

Bureau Veritas North America, Inc.

180 Promenade Circle #150

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P: 916.514.4508

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jamie.saldana@us.bureauveritas.com

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Thursday, November 11, 2010 3:23 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00145 - CBO Submittal Package - ELEC-1-5.04 - Technical Specification for Medium Voltage Motors and Low Voltage Motors - PC1- Approved

Hello,

The Ivanpah submittal "ELEC-1-5.04 - Technical Specification for Medium Voltage Motors and Low Voltage Motors - PC1," has been reviewed and approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana
Project Coordinator – Power & Utilities
Bureau Veritas North America, Inc.
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Sacramento, CA 95834
P: 916.514.4508
F: 916.617.2068
jamie.saldana@us.bureauveritas.com
www.us.Bureauveritas.com/energyusa
ISO 9001:2000 Certified

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Thursday, November 11, 2010 3:46 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00146 - CBO Submittal Package - ELEC-1-6.02 - Load Flow, Short Circuit and Motor Starting Calculation - PC1- Approved

Hello,

The Ivanpah submittal "ELEC-1-6.02 - Load Flow, Short Circuit and Motor Starting Calculation - PC1," has been reviewed and approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

Project Coordinator – Power & Utilities

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Monday, November 15, 2010 12:33 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00150 - CBO Submittal Package - ELEC-1-6.03 - 33kV System Load Flow, Short Circuit and Motor Starting Calculation-PC1 -Approved

Hello,

The Ivanpah submittal "ELEC-1-6.03 - 33kV System Load Flow, Short Circuit & Motor Starting Calculation-PC1," has been reviewed and approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

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Exhibit 17

CIVIL-1 CBO Approvals Condition of Certification CIVIL-1

Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Monday, November 22, 2010 5:32 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com;
keith.long@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00161 - CBO Submittal Package - CIVIL-1-10.01 - Storm Drainage - PC2 - Approved

Hello,

The Ivanpah submittal "CIVIL-1-10.01 - Storm Drainage - PC2, Storm Drainage, " has been reviewed and approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Monday, November 22, 2010 2:53 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com;
keith.long@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00160 - CBO Submittal Package - CIVIL-1-12.01 - Construction
Facilities-PC2 - Approved

Hello,

The Ivanpah submittal "CIVIL-1-12.01 - Construction Facilities-PC2, Construction Facilities, " has been reviewed and approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Tuesday, November 02, 2010 3:41 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com; terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00132 - CBO Submittal Package - CIVIL-1-4.01 - Calculations - Civil - PC1- Approved - CHANGE OF STATUS
Attachments: pic26463.gif

CHANGE OF STATUS

Hello,

The Ivanpah submittal "CIVIL-1-4.01 - Calculations - Civil - PC1," has been reviewed and approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana
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----- Forwarded by Jamie Saldana/USA/VERITAS on 11/02/2010 12:40 PM -----

Jamie Saldana/USA/VERITAS

10/25/2010 01:06 PM

To cpfairha@bechtel.com, cdravott@bechtel.com, lmaniyar@bechtel.com

cc Carlos Larios/USA/VERITAS@VERITAS, Theresa Gutierrez/USA/VERITAS@VERITAS, Terry Vosler/USA/VERITAS@VERITAS, Bruce Boyer/USA/VERITAS@VERITAS

Subject Ivanpah -CIVIL-1-4.01 - Calculations - Civil - PC1- Comments

Ref

Hello,

The Ivanpah submittal "CIVIL-1-4.01 - Calculations - Civil - PC1," has been reviewed and issued comments, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

Project Coordinator – Power & Utilities

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Wednesday, November 24, 2010 2:35 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com;
keith.long@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00163 - CBO Submittal Package - CIVIL-1-4.02 - Calculations - Hydrology - PC3 - Approved/Reference Only

Hello,

The Ivanpah submittal " CIVIL-1-4.02 - Calculations - Hydrology - PC3, " has been reviewed, approved and deemed reference only, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

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Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Friday, November 19, 2010 1:33 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com;
kimberly.alforque@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00158 - CBO Submittal Package - CIVIL-1-9.02 - Rough Grading Plans
- PC2 - Approved

Hello,

The Ivanpah submittal "CIVIL-1-9.02 - Rough Grading Plans - PC2, Revised Rough Grading Plans," has been reviewed and approved, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana

Permit Technician – Power & Utilities

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Exhibit 18

Monthly Construction Safety Summary Condition of Certification Worker Safety - 3

**Condition of Certification Worker Safety- 3
November 2010 Construction Safety Summary**

Bechtel			Subcontractors		
First Aid	Recordable	Lost Time	First Aid	Recordable	Lost Time
0	0	0	0	0	0

Work Completed

- Project Environmental Safety and Health (ES&H) orientation and WEAP training were conducted for approximately 88 people during the month of November.
- Fall Protection training was conducted for 4 Las Vegas Paving employees and also for Bechtel superintendents, field engineers, and surveyors.
- Implemented weekly supervisor safety meetings which are cascaded to all field employees by contractor supervision.
- Responses were provided to CBO comments on Worker Safety 1 submittal.
- Three minor environmental incidents occurred during the month of November. Each incident has an attached spill report, photographs, and MSDS data sheet and was cleaned up promptly and properly under the supervision of Bechtel environmental staff.

Work In Progress

- Complete responses to follow up comments from CBO on submittals to initial comments.
- Complete response to outstanding item from initial CBO comments requesting an injury and illness prevention program (IIPP) reference document.
- Order and place ES&H awareness signage and posters on site.
- Arrange for First-Aid, CPR, and AED training for Bechtel supervision.

Work to be Started Next Period

- Begin conducting Fall Protection training and other required trainings as necessitated by upcoming Subcontractor work scopes.
- Administer First-Aid, CPR, and AED training class.

ENVIRONMENTAL INCIDENT REPORT

Date/Time: November 16, 2010 / 1630		Name/ Title: Lorie Palkow	
		Signature: <i>Lorie Palkow</i>	
Incident Description: Around 1300 I spotted what appeared to be a spill of some sort in the area just before Commons East where LVP parks their heavy equipment for the night. Substance was determined to be diesel. Probably leaked or spilled from the equipment or during fueling? Less than one gallon of diesel appeared to have impacted the area. LVP was notified and removed approximately 40 gallons of soil.			
Location Of Incident: Area immediately before going into Commons East		Date/Time of Release: Unknown Discovered 1500 on Nov. 16, 2010	
Personnel/ Subcontractor Involved: Lorie Palkow and Marvin for LVP		Date/Time Release Stopped: UNKNOWN	
Containment: Diesel-stained dirt was shoveled up into plastic 5-gallon buckets and 20 gallon spill pans for disposal in their incinerator.		Product ID or CAS Number: Diesel Fuel CAS#68476-34-6 Total Amount Released (units): less than 1 gallon	
Date/Time Telecoms GBU Environmental Services Manager Notified: Release discovered by Lorie Palkow. Was not notified Person Contacted: <u>Not Applicable</u> Notes:		Was there any off-site impact with threat to human health and/or environment?: No Did release reach surface water? No If "yes" to either of the above two questions, initiate the Legal Instruction 127 process in coordination with the Manager of Environmental Services.	
Description of Corrective Action Taken: Diesel-stained soil was removed by a team with shovels and placed in 5 gallon buckets and 20 gallon pans. These will be transferred to the LVP yard for disposal in their incinerator.			
Measures to Prevent Recurrence: Equipment drivers are to walk around and check their equipment every morning prior to start of work and report any spills or leaks and fuel trucks need to be using drip pans when fueling.			



Exhibit 18 Construction Safety Summary 11.16.2010 Incident Photos



Exhibit 18 Construction Safety Summary 11.16.2010 Incident Photos



Exhibit 18 Construction Safety Summary 11.16.2010 Incident Photos

Material Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

DIESEL FUEL No. 2

Product Use: Fuel

Product Number(s): CPS203410 [See Section 16 for Additional Product Numbers]

Synonyms: 15 S Diesel Fuel 2, Alternative Low Aromatic Diesel (ALAD), Calco LS Diesel 2, Calco ULS DF2, Calco ULS Diesel 2, Chevron LS Diesel 2, Chevron ULS Diesel 2, Diesel Fuel Oil, Diesel Grade No. 2, Diesel No. 2-D S15, Diesel No. 2-D S500, Diesel No. 2-D S5000, Distillates, straight run, Gas Oil, HS Diesel 2, HS Heating Fuel 2, Light Diesel Oil Grade No. 2-D, LS Diesel 2, LS Heating Fuel 2, Marine Diesel, RR Diesel Fuel, Texaco Diesel, Texaco Diesel No. 2, Ultra Low Sulfur Diesel 2

Company Identification

Chevron Products Company
Marketing, MSDS Coordinator
6001 Bollinger Canyon Road
San Ramon, CA 94583
United States of America

Transportation Emergency Response

CHEMTREC: (800) 424-9300 or (703) 527-3887

Health Emergency

Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623

Product Information

MSDS Requests: (800) 689-3998

Technical Information: (510) 242-5357

SPECIAL NOTES: This MSDS covers all Chevron and Calco non-CARB Diesel No. 2 Fuels. The sulfur content is less than 0.5% (mass). Red dye is added to non-taxable fuel. (MSDS 6894)

SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Diesel Fuel No. 2	68476-34-6	100 %wt/wt
Distillates, hydrodesulfurized, middle	64742-80-9	0 - 100 %wt/wt
Distillates, straight run middle (gas oil, light)	64741-44-2	0 - 100 %wt/wt
Kerosine	8008-20-6	0 - 25 %wt/wt
Kerosine, hydrodesulfurized	64742-81-0	0 - 25 %wt/wt
Distillates (petroleum), light catalytic cracked	64741-59-9	0 - 50 %wt/wt
Naphthalene	91-20-3	0.02 - 0.2 %wt/wt
Total sulfur	None	0 - 0.5 %wt/wt

Information on ingredients that are considered Controlled Products and/or that appear on the WHMIS Ingredient Disclosure List (IDL) is provided as required by the Canadian Hazardous Products Act (HPA).

Sections 13 and 14). Ingredients considered hazardous under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, are also listed. See Section 15 for additional regulatory information.

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

- COMBUSTIBLE LIQUID AND VAPOR
- HARMFUL OR FATAL IF SWALLOWED - MAY CAUSE LUNG DAMAGE IF SWALLOWED
- CAUSES SKIN IRRITATION
- MAY CAUSE CANCER BASED ON ANIMAL DATA

IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.
Skin: Contact with the skin causes irritation. Skin contact may cause drying or defatting of the skin. Symptoms may include pain, itching, discoloration, swelling, and blistering. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.
Ingestion: Because of its low viscosity, this material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death. May be irritating to mouth, throat, and stomach. Symptoms may include pain, nausea, vomiting, and diarrhea.
Inhalation: Mists of this material may cause respiratory irritation. Symptoms of respiratory irritation may include coughing and difficulty breathing.

DELAYED OR OTHER HEALTH EFFECTS:

Cancer: Prolonged or repeated exposure to this material may cause cancer. Whole diesel engine exhaust has been classified as a Group 2A carcinogen (probably carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Diesel exhaust particulate has been classified as reasonably anticipated to be a human carcinogen in the National Toxicology Program's Ninth Report on Carcinogens. The National Institute of Occupational Safety and Health (NIOSH) has recommended that whole diesel exhaust be regarded as potentially causing cancer. Diesel engine exhaust is known to the State of California to cause cancer. Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).
 See Section 11 for additional information. Risk depends on duration and level of exposure.

SECTION 4 FIRST AID MEASURES

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.
Skin: Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.
Ingestion: If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.
Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.
Note to Physicians: Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

SECTION 5 FIRE FIGHTING MEASURES

See Section 7 for proper handling and storage.

FLAMMABLE PROPERTIES:

Flashpoint: (Pensky-Martens Closed Cup) 52 °C (125 °F) (Min)

Autoignition: 257 °C (494 °F)

Flammability (Explosive) Limits (% by volume in air): Lower: 0.6 Upper: 4.7

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities as appropriate or required.

SECTION 7 HANDLING AND STORAGE

Precautionary Measures: Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive force. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 29C (85F).

Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe vapor or fumes. Do not breathe mist. Wash thoroughly after handling. Keep out of the reach of children.

Unusual Handling Hazards: WARNING! Do not use as portable heater or appliance fuel. Toxic fumes may accumulate and cause death.

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

General Storage Information: DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces . USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and

understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Suggested materials for protective gloves include: Viton, Chlorinated Polyethylene (or Chlorosulfonated Polyethylene), Nitrile Rubber, Polyurethane.

Respiratory Protection: Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors.

When used as a fuel, this material can produce carbon monoxide in the exhaust. Determine if airborne concentrations are below the occupational exposure limit for carbon monoxide. If not, wear an approved positive-pressure air-supplying respirator.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Country/ Agency	TWA	STEL	Ceiling	Notation
Diesel Fuel No. 2	ACGIH	100 mg/m3	--	--	Skin A3 total hydrocarbon
Diesel Fuel No. 2	CVX	--	1000 mg/m3	--	--
Kerosine	ACGIH	200 mg/m3	--	--	Skin A3 Total hydrocarbon vapor
Kerosine	CVX	--	1000 mg/m3	--	--
Kerosine, hydrodesulfurized	ACGIH	200 mg/m3	--	--	Skin A3 Total hydrocarbon vapor
Kerosine, hydrodesulfurized	CVX	--	1000 mg/m3	--	--
Naphthalene	ACGIH	10 ppm (weight)	15 ppm (weight)	--	Skin

NOTE ON OCCUPATIONAL EXPOSURE LIMITS: Consult local authorities for acceptable provincial values in Canada. Consult the Canadian Standards Association Standard 94.4-2002 Selection, Use and Care of Respirators.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

- Color:** Varies depending on specification
- Physical State:** Liquid
- Odor:** Petroleum odor
- pH:** Not Applicable
- Vapor Pressure:** 0.04 kPa (Approximate) @ 40 °C (104 °F)
- Vapor Density (Air = 1):** >1
- Boiling Point:** 175.6°C (348°F) - 370°C (698°F)
- Solubility:** Soluble in hydrocarbons; insoluble in water
- Freezing Point:** Not Applicable
- Melting Point:** Not Applicable

Specific Gravity: 0.8 - 0.88 @ 15.6°C (60.1°F) (Typical)

Viscosity: 1.9 cSt - 4.1 cSt @ 40°C (104°F)

Odor Threshold: No Data Available

Coefficient of Water/Oil Distribution: No Data Available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: None known (None expected)

Hazardous Polymerization: Hazardous polymerization will not occur.

Sensitivity to Mechanical Impact: No.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization: This material did not cause skin sensitization reactions in a Buehler guinea pig test.

Acute Dermal Toxicity: LD50: >5ml/kg (rabbit).

Acute Oral Toxicity: LD50: > 5 ml/kg (rat)

Acute Inhalation Toxicity: 4 hour(s) LC50: > 5mg/l (rat). For additional information on the acute toxicity of the components, call the technical information center.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains gas oils.

CONCAWE (product dossier 95/107) has summarized current health, safety and environmental data available for a number of gas oils, typically hydrodesulfurized middle distillates, CAS 64742-80-9, straight-run middle distillates, CAS 64741-44-2, and/or light cat-cracked distillate CAS 64741-59-9. **CARCINOGENICITY:** All materials tested have caused the development of skin tumors in mice, but all featured severe skin irritation and sometimes a long latency period before tumors developed. Straight-run and cracked gas oil samples were studied to determine the influence of dermal irritation on the carcinogenic activity of middle distillates. At non-irritant doses the straight-run gas oil was not carcinogenic, but at irritant doses, weak activity was demonstrated. Cracked gas oils, when diluted with mineral oil, demonstrated carcinogenic activity irrespective of the occurrence of skin irritation. Gas oils were tested on male mice to study tumor initiating/promoting activity. The results demonstrated that while a straight-run gas oil sample was neither an initiator or promoter, a blend of straight-run and FCC stock was both a tumor initiator and a promoter.

GENOTOXICITY: Hydrotreated & hydrodesulfurized gas oils range in activity from inactive to weakly positive in in-vitro bacterial mutagenicity assays. Mouse lymphoma assays on straight-run gas oils without subsequent hydrodesulphurization gave positive results in the presence of S9 metabolic activation. In-vivo bone marrow cytogenetics and sister chromatic exchange assay exhibited no activity for straight-run components with or without hydrodesulphurization. Thermally or catalytically cracked gas oils tested with in-vitro bacterial mutagenicity assays in the presence of S9 metabolic activation were shown to be mutagenic. In-vitro sister chromatic exchange assays on cracked gas oil gave equivocal results both with and without S9 metabolic activation. In-vivo bone marrow cytogenetics assay was inactive for two cracked gas oil samples. Three hydrocracked gas oils were tested with in-vitro bacterial mutagenicity assays with S9, and one of the three gave positive results. Twelve distillate fuel samples were tested with in-vitro bacterial mutagenicity assays & with S9 metabolic activation and showed negative to weakly positive results. In one series, activity was shown to be related to the PCA content of samples tested. Two In-vivo studies were also conducted. A mouse dominant lethal assay was negative for a sample of diesel fuel. In the other study, 9 samples of No 2 heating oil containing 50% cracked stocks caused a slight increase in the number of chromosomal aberrations in bone marrow cytogenetics assays. **DEVELOPMENTAL TOXICITY:** Diesel fuel vapor did not cause fetotoxic or teratogenic effects when pregnant rats were exposed on days 6-15 of pregnancy. Gas oils were applied to the skin of pregnant rats daily on days 0-19 of gestation. All but one (coker light gas oil) caused fetotoxicity (increased resorptions, reduced litter weight, reduced litter size) at dose levels that were also maternally toxic.

This product contains naphthalene.

GENERAL TOXICITY: Exposure to naphthalene has been reported to cause methemoglobinemia and/or hemolytic anemia, especially in humans deficient in the enzyme glucose-6-phosphate dehydrogenase.

Laboratory animals given repeated oral doses of naphthalene have developed cataracts. **REPRODUCTIVE TOXICITY AND BIRTH DEFECTS:** Naphthalene did not cause birth defects when administered orally to rabbits, rats, and mice during pregnancy, but slightly reduced litter size in mice at dose levels that were lethal to the pregnant females. Naphthalene has been reported to cross the human placenta.

GENETIC TOXICITY: Naphthalene caused chromosome aberrations and sister chromatid exchanges in Chinese hamster ovary cells, but was not a mutagen in several other in-vitro tests.

CARCINOGENICITY: In a study conducted by the National Toxicology Program (NTP), mice exposed to 10 or 30 ppm of naphthalene by inhalation daily for two years had chronic inflammation of the nose and lungs and increased incidences of metaplasia in those tissues. The incidence of benign lung tumors (alveolar/bronchiolar adenomas) was significantly increased in the high-dose female group but not in the male groups. In another two-year inhalation study conducted by NTP, exposure of rats to 10, 30, and 60 ppm naphthalene caused increases in the incidences of a variety of nonneoplastic lesions in the nose. Increases in nasal tumors were seen in both sexes, including olfactory neuroblastomas in females at 60 ppm and adenomas of the respiratory epithelium in males at all exposure levels. The relevance of these effects to humans has not been established. No carcinogenic effect was reported in a 2-year feeding study in rats receiving naphthalene at 41 mg/kg/day. This product may contain significant amounts of Polynuclear Aromatic Hydrocarbons (PAH's) which have been shown to cause skin cancer after prolonged and frequent contact with the skin of test animals. Brief or intermittent skin contact with this product is not expected to have serious effects if it is washed from the skin. While skin cancer is unlikely to occur in human beings following use of this product, skin contact and breathing, of mists, vapors or dusts should be reduced to a minimum.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

48 hour(s) EC50: 20-210 mg/l (Daphnia magna)

96 hour(s) LC50: 21-210 mg/l (Salmo gairdneri)

72 hour(s) EC50: 2.6-25 mg/l (Raphidocellus subcapitata)

ENVIRONMENTAL FATE

On release to the environment the lighter components of diesel fuel will generally evaporate but depending on local environmental conditions (temperature, wind, mixing or wave action, soil type, etc.) the remainder may become dispersed in the water column or absorbed to soil or sediment. Diesel fuel would not be expected to be readily biodegradable. In a modified Strum test (OECD method 301B) approximately 40% biodegradation was recorded over 28 days. However, it has been shown that most hydrocarbon components of diesel fuel are degraded in soil in the presence of oxygen. Under anaerobic conditions, such as in anoxic sediments, rates of biodegradation are negligible.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by USEPA under RCRA (40CFR261), Environment Canada, or other State, Provincial, and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

TC Shipping Description: UN1202, GAS OIL, 3, III

IMO/MDG Shipping Description: UN1202, GAS OIL, 3, III, FLASH POINT-SEE SECTION 5

ICAO/IATA Shipping Description: UN1202, GAS OIL, 3, III

DOT Shipping Description: UN1202, GAS OIL, COMBUSTIBLE LIQUID, III

SECTION 15 REGULATORY INFORMATION
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REGULATORY LISTS SEARCHED:

01-1=IARC Group 1
 01-2A=IARC Group 2A
 01-2B=IARC Group 2B
 35=WHMIS IDL

The following components of this material are found on the regulatory lists indicated.

Naphthalene 01-2B, 35

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

WHMIS CLASSIFICATION:

Class B, Division 3: Combustible Liquids
 Class D, Division 2, Subdivision A: Very Toxic Material -
 Carcinogenicity
 Class D, Division 2, Subdivision B: Toxic Material -
 Skin or Eye Irritation

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. (See Hazardous Products Act (HPA), R.S.C. 1985, c.H-3,s.2).

MSDS PREPARATION:

This Material Safety Data Sheet has been prepared by the Toxicology and Health Risk Assessment Unit, ERTC, P.O. Box 1627, Richmond, CA 94804, (888)676-6183.

Revision Date: March 21, 2008

SECTION 16 OTHER INFORMATION

Additional Product Number(s): CPS203413, CPS203417, CPS220122, CPS225114, CPS225115, CPS225150, CPS266176, CPS270000, CPS270005, CPS270094, CPS270095, CPS270096, CPS271006, CPS272006, CPS272007, CPS272008, CPS272009, CPS272010, CPS272011, CPS272012, CPS272013, CPS272093, CPS272102, CPS272126, CPS272152, CPS272185, CPS272190, CPS272195, CPS272593, CPS272601, CPS272693, CPS272793, CPS273003, CPS273030, CPS273053, CPS275000

REVISION STATEMENT: This revision updates the following sections of this Material Safety Data Sheet: 1, 2, 16.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Government Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	MSDS - Material Safety Data Sheet

CVX - Chevron	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

ENVIRONMENTAL INCIDENT REPORT

Date/Time: November 24, 2010 / 0841	Name/ Title: Lorie Palkow Signature: <i>Lorie Palkow</i>
Incident Description: On November 22 while inspecting the staging area a drip pan and 5 gallon drum containing spill pads was observed under a Crown Fence auger machine. A leak had been discovered that morning and the pan and drum was placed under it to prevent a spill from occurring. Upon further inspection, the wind had shifted the pan and a few ounces of diesel had run off the pan and onto the ground. Approximately half a shovel of dirt was placed in the 5 gallon spill pad lined drum. The contents will be disposed of by Crown Fence.	
Location Of Incident: Equipment staging area	Date/Time of Release: November 22, 2010/Exact time unknown between 0600 and 1130
Personnel/ Subcontractor Involved: Lorie Palkow and Jeff for Crown Fence	Date/Time Release Stopped: 1130
Containment: Diesel-stained dirt was shoveled up into plastic 5-gallon bucket	Product ID or CAS Number: Diesel Fuel Product Code 9847A Total Amount Released (units): a few ounces
Date/Time Telecoms GBU Environmental Services Manager Notified: Release discovered by Lorie Palkow. Person Contacted: <u>Not Applicable</u> Notes: Notified Crown and they responded within 5 minutes.	Was there any off-site impact with threat to human health and/or environment?: No Did release reach surface water? No <hr/> If "yes" to either of the above two questions, initiate the Legal Instruction 127 process in coordination with the Manager of Environmental Services.
Description of Corrective Action Taken: Diesel-stained soil was removed by Jeff with a shovel and placed in a 5 gallon bucket. It will be disposed of. A tarp was placed under the equipment to prevent further issues.	
Measures to Prevent Recurrence: Spill pans and tarps need to be weighed down by something to prevent flipping over or relocation by wind.	







DIESEL



Shell Chemicals

Material Safety Data Sheet

High Sulfur Diesel

MSDS# 7958

Version 2.

Effective Date 12/16/2009

According to OSHA Hazard Communication Standard, 29 CFR

1910.1200

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : High Sulfur Diesel
Uses : Diesel Fuel.
Product Code : 9847A
Company : Shell Chemical LP
PO Box 2463
HOUSTON TX 77252-2463
USA
MSDS Request : 1-800-240-6737
Customer Service : 1-866-897-4355

Emergency Telephone Number
Chemtrec Domestic (24 hr) : 1-800-424-9300
Chemtrec International (24 hr) : 1-703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Distillates (Petroleum), Full-Range Straight-Run Middle	68814-87-9	100.00 %

Contains Sulphur, CAS # 7704-34-9.

3. HAZARDS IDENTIFICATION

	Emergency Overview
Appearance and Odour	: Amber or as dyed. Liquid. Strong hydrocarbon.
Health Hazards	: Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness. Causes severe skin irritation.
Safety Hazards	: Combustible liquid and vapour. Vapours are heavier than air. Vapours may travel across the ground and reach remote ignition sources causing a flashback fire danger. May form flammable/explosive vapour-air mixture. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire.
Environmental Hazards	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Health Hazards
Inhalation : Slightly irritating to respiratory system. Vapours may cause drowsiness and dizziness.
Skin Contact : Causes severe skin irritation.
Eye Contact : Moderately irritating to eyes.
Ingestion : Harmful: may cause lung damage if swallowed.
Other Information :

Print Date 09/08/2010

1/9

MSDS_US



- Signs and Symptoms** : Diesel exhaust from engines has been associated with cancer. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure.
- Aggravated Medical Condition** : Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.

4. FIRST AID MEASURES

- Inhalation** : Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
- Skin Contact** : Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.
- Eye Contact** : Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
- Ingestion** : If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
- Advice to Physician** : Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal. Call a doctor or poison control center for guidance.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

- Flash point** : 52 °C / 126 °F (Pensky-Martens Closed Cup)
- Specific Hazards** : Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. The vapour is heavier than air, spreads along the ground and distant ignition is possible.
- Extinguishing Media** : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
- Unsuitable Extinguishing Media** : Do not use water in a jet.
- Protective Equipment for Firefighters** : Wear full protective clothing and self-contained breathing apparatus.
- Additional Advice** : Keep adjacent containers cool by spraying with water.



6. ACCIDENTAL RELEASE MEASURES

Observe all relevant local and international regulations.

- Protective measures** : Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet. Be ready for fire or possible exposure. Stay upwind and keep out of low areas. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- Clean Up Methods** : For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
- Additional Advice** : Risk of explosion. Inform the emergency services if liquid enters surface water drains. Vapour may form an explosive mixture with air. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Under Section 311 of the Clean Water Act (CWA) this material is considered an oil. As such, spills into surface waters must be reported to the National Response Centre at (800) 424-8802. This material is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Petroleum Exclusion. Therefore, releases to the environment may not be reportable under CERCLA.

7. HANDLING AND STORAGE

- General Precautions** : Avoid breathing vapours or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. On guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet.
- Handling** : Avoid inhaling vapour and/or mists. Avoid contact with skin, eyes, and clothing. Electrostatic charges may be generated



during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<= 1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Handling Temperature: Ambient.

Storage : Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment. Keep container tightly closed. Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Vapours from tanks should not be released to atmosphere. Breathing losses during storage should be controlled by a suitable vapour treatment system. Storage Temperature: Ambient.

Product Transfer : Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge. Keep containers closed when not in use. Do not use compressed air for filling, discharging or handling.

Container Advice : Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

Additional Information : Ensure that all local regulations regarding handling and storage facilities are followed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Material	Source	Type	ppm	mg/m3	Notation
Petroleum Products, Diesel Oil	ACGIH	TWA		100 mg/m3	
		as total hydrocarbons			
		Vapor and aerosol.			
	ACGIH	SKIN_DES			Can be absorbed through the skin.
		as total hydrocarbons			
		Vapor and aerosol.			

Additional Information : Skin notation means that significant exposure can also occur by absorption of liquid through the skin and of vapour through the eyes or mucous membranes.

Exposure Controls : The level of protection and types of controls necessary will vary



depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances.

Appropriate measures include: Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Eye washes and showers for emergency use.

**Personal Protective Equipment
Respiratory Protection**

- : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.
- : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where respiratory protective equipment is required, use a full-face mask. If air-filtering respirators are suitable for conditions of use: Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65 °C (149 °F)].

Hand Protection

- : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739, AS/NZS:2161) made from the following materials may provide suitable chemical protection: Longer term protection - Viton. Incidental contact/Splash protection - Nitrile rubber. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

**Eye Protection
Protective Clothing**

- : Chemical splash goggles (chemical monogoggles).
- : Where risk of splashing or in spillage clean up, use chemical resistant one-piece overall with integral hood and chemical resistant gloves. Otherwise use chemical resistant apron and gauntlets.

Monitoring Methods

- : Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Examples of sources of recommended air monitoring methods are given below or contact supplier. Further national methods may be available. National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods, <http://www.cdc.gov/niosh/nmam/nmammenu.html>. Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods, <http://www.osha-slc.gov/dts/sltc/methods/toc.html>.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Amber or as dyed. Liquid.
 Odour : Strong hydrocarbon.
 Boiling point : 232.2 °C / 450.0 °F
 Flash point : 52 °C / 126 °F (Pensky-Martens Closed Cup)
 Specific gravity : 0.8762
 Water solubility : 0.05 g/l Negligible.
 Vapour density (air=1) : > 1
 Stability : Stable.
 Viscosity : 32.0 - 45 sus

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions of use.
 Conditions to Avoid : Heat, flames, and sparks.
 Materials to Avoid : Strong oxidising agents.
 Hazardous Decomposition Products : Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment : Information given is based on product testing.
 Acute Oral Toxicity : Low toxicity: LD50 >2000 mg/kg , Rat
 Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
 Acute Dermal Toxicity : Low toxicity: LD50 >2000 mg/kg , Rabbit
 Acute Inhalation Toxicity : High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
 Skin Irritation : Causes severe skin irritation.
 Eye Irritation : Moderately irritating to eyes (but insufficient to classify).
 Respiratory Irritation : Inhalation of vapours or mists may cause irritation to the respiratory system.
 Sensitisation : Not a skin sensitiser.
 Mutagenicity : Not considered a mutagenic hazard.
 Carcinogenicity : Limited evidence of carcinogenic effect. (Diesel Fuel)
 Repeated skin contact may result in irritation and skin cancer.
 Causes cancer in laboratory animals. (Diesel Engine Exhaust)

Material	Carcinogenicity Classification
Diesel Engine Exhaust	NTP: Anticipated carcinogen.
Diesel Engine Exhaust	IARC 2A: Probably carcinogenic to humans.
Diesel Fuel, Marine	IARC 2B: Possibly carcinogenic to humans.
Petroleum Products, Diesel Oil	ACGIH Group A3: Confirmed animal carcinogen with unknown relevance to humans.
Petroleum Products, Diesel	IARC 3: Not classifiable as to carcinogenicity to humans.

Oil	
-----	--

12. ECOLOGICAL INFORMATION

- Acute Toxicity** : Information given is based on product data, a knowledge of the components and the toxicology of similar products.
- Fish** : Toxic: LL/EL/IL50 1-10 mg/l
- Mobility** : Floats on water. Adsorbs to soil and has low mobility. Large volumes may penetrate soil and could contaminate groundwater.
- Persistence/degradability** : Major constituents are inherently biodegradable, but contains components that are persistent in the environment. Oxidises rapidly by photo-chemical reactions in air.
- Bioaccumulation** : Has the potential to bioaccumulate.

13. DISPOSAL CONSIDERATIONS

- Material Disposal** : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.
Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.
- Local Legislation** : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

14. TRANSPORT INFORMATION
US Department of Transportation Classification (49CFR)

Identification number	NA 1993
Proper shipping name	Diesel fuel
Class / Division	Combustible liquid
Packing group	III
Contains	OIL
Additional Information	This material is not regulated under 49 CFR if in a container of 119 gallon capacity or less. This material is an 'OIL' under 49 CFR Part 130 when transported in a container of 3500 gallon capacity or greater. Reclassified as combustible liquid for land transportation within the US per 49CFR 173.120(b)(2).

IMDG

Identification number	UN 1202
Proper shipping name	DIESEL FUEL
Class / Division	3
Packing group	III

Marine pollutant: Yes

IATA (Country variations may apply)

Identification number	UN 1202
Proper shipping name	Diesel fuel
Class / Division	3
Packing group	III

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status**Notification Status**

EINECS	Listed.
ENCS (JP)	Listed.
KECI (KR)	Listed.
INV (CN)	Listed.
AICS	Listed.
PICCS (PH)	Listed.
TSCA	Listed.
DSL	Listed.

SARA Hazard Categories (311/312)

Immediate (Acute) Health Hazard. Delayed (Chronic) Health Hazard.
Fire Hazard.

State Regulatory Status**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**

Known to the state of California to cause cancer.

Diesel Engine Exhaust () 100.00%	Carcinogenic.
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New Jersey Right-To-Know Chemical List

Sulfur (7704-34-9) 1.00%	Listed.
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Pennsylvania Right-To-Know Chemical List

Petroleum Products, Diesel Oil () 100.00%	Listed.
--	---------



Material Safety Data Sheet

High Sulfur Diesel

MSDS# 7958

Version 2.

Effective Date 12/16/2009

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Sulfur (7704-34-9) 1.00%

Listed.

16. OTHER INFORMATION

- MSDS Version Number** : 2.
- MSDS Effective Date** : 12/16/2009
- MSDS Revisions** : A vertical bar (|) in the left margin indicates an amendment from the previous version.
- MSDS Regulation** : The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- MSDS Distribution** : The information in this document should be made available to all who may handle the product
- Disclaimer** : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

ENVIRONMENTAL INCIDENT REPORT

Date/Time: November 29, 2010 / 0914	Name/ Title: Lorie Palkow/CEL
Signature: <i>Lorie Palkow</i>	
Incident Description: Per Jennifer: The EGT 7000 drilling rig was tracking from the NE corner of Ivanpah 3 to the Ivanpah 3 power block. The spill occurred just east of power block 3 along the roadway. The drill rig blew an o-ring on the hydraulic fitting causing approximately 2 quarts of oil to spill. There is approx 100' of an oil drip trail down the road, but 95% of the oil was contained either within the engine compartment, on diapers, or in two buckets placed under the rig. According to the drill rig operator, the failure of the o-ring is a common occurrence which cannot readily be prevented in the future. The operators replaced the o-ring which successfully stopped the leak. Joe Casey (operator helper) with Jensen Drilling stated that they would place the contaminated soil in buckets/bags and would bring them to safety for proper disposal. There are no open items remaining on this incident. Please see attached pictures for your reference.	
Location Of Incident: Ivanpah 3 along the roadway east of the power block	Date/Time of Release: November 23, 2010/approximately 1200
Personnel/ Subcontractor Involved: Jennifer Arnold/ Clint Morrison for Jensen	Date/Time Release Stopped: NOVEMBER 23, 2010/1200
Containment: Hydraulic oil impacted soil was but in buckets and bags	Product ID or CAS Number: Hydraulic Oil Total Amount Released (units): 2 quarts
Date/Time Telecoms GBU Environmental Services Manager Notified: November 23, 2010/Matt Carney Person Contacted: <u>Matt Carney</u> Notes: Lorie Palkow was offsite. Mat Carney was notified and Jennifer Arnold was sent to respond.	Was there any off-site impact with threat to human health and/or environment?: No Did release reach surface water? No If "yes" to either of the above two questions, initiate the Legal Instruction 127 process in coordination with the Manager of Environmental Services.
Description of Corrective Action Taken: hydraulic oil impacted soil was removed by Jensen drilling with a shovel and placed in 5 gallon buckets or bags.	
Measures to Prevent Recurrence: Equipment should be inspected daily for loose O-rings.	

From: Arnold, Jennifer S
Sent: Monday, November 29, 2010 5:59 AM
To: Palkow, Lorie
Cc: Carney, Matthew C; Daniel, Gregory
Subject: 11/23/10 Incident Report

Attachments: IMG00169-20101123-1347.jpg; IMG00168-20101123-1346.jpg; IMG00167-20101123-1346.jpg; IMG00166-20101123-1345.jpg

The following information is what I found out yesterday, 11/23/10, during an interview with the operator affiliated with the oil spill at Ivanpah 3. I interviewed Clint Morrison (operator) with Jensen Drilling:

The EGT 7000 drilling rig was tracking from the NE corner of Ivanpah 3 to the Ivanpah 3 power block. The spill occurred just east of power block 3 along the roadway. The drill rig blew an o-ring on the hydraulic fitting causing approximately 2 quarts of oil to spill. There is approx 100' of an oil drip trail down the road, but 95% of the oil was contained either within the engine compartment, on diapers, or in two buckets placed under the rig. According to the drill rig operator, the failure of the o-ring is a common occurrence which cannot readily be prevented in the future. The operators replaced the o-ring which successfully stopped the leak. Joe Casey (operator helper) with Jensen Drilling stated that they would place the contaminated soil in buckets/bags and would bring them to safety for proper disposal. There are no open items remaining on this incident. Please see attached pictures for your reference.

Thanks,
Jennifer



Exhibit 18 Construction Safety Summary 11.23.2010 Incident Photos



Exhibit 18 Construction Safety Summary 11.23.2010 Incident Photos

Material Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Chevron Clarity® Hydraulic Oil AW

Product Use: Hydraulic Oil

Product Number(s): CPS230340, CPS230341, CPS230342

Synonyms: Chevron Clarity® Hydraulic Oil AW ISO 32, Chevron Clarity® Hydraulic Oil AW ISO 46, Chevron Clarity® Hydraulic Oil AW ISO 68

Company Identification

Chevron Products Company

Global Lubricants

6001 Bollinger Canyon Rd.

San Ramon, CA 94583

United States of America

www.chevron-lubricants.com

Transportation Emergency Response

CHEMTREC: (800) 424-9300 or (703) 527-3887

Health Emergency

Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623

Product Information

email : lubemsds@chevrontexaco.com

Product Information: (800) LUBE TEK

MSDS Requests: (800) 414-6737

SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	90 - 100 %weight

SECTION 3 HAZARDS IDENTIFICATION

IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

SECTION 4 FIRST AID MEASURES

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes

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with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Note to Physicians: In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

SECTION 5 FIRE FIGHTING MEASURES

Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

FLAMMABLE PROPERTIES:

Flashpoint: (Cleveland Open Cup) 190 °C (374 °F) (Min)

Autoignition: No Data Available

Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not Applicable

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

Precautionary Measures: DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating

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procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.

Respiratory Protection: No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH	5 mg/m ³	10 mg/m ³	—	—
Highly refined mineral oil (C15 - C50)	OSHA Z-1	5 mg/m ³	—	—	—

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Colorless

Physical State: Liquid

Odor: Petroleum odor

pH: Not Applicable

Vapor Pressure: <0.01 mmHg @ 37.8 °C (100 °F)

Vapor Density (Air = 1): >1

Boiling Point: >315°C (599°F)

Solubility: Soluble in hydrocarbon solvents; insoluble in water.

Freezing Point: Not Applicable

Density: 0.86 - 0.87 kg/l @ 15.6°C (60.1°F)

Viscosity: 32 cSt @ 40°C (104°F) (Min)

SECTION 10 STABILITY AND REACTIVITY

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Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: None known (None expected)

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS

Eye Irritation: The Draize eye irritation mean score in rabbits for a 24-hour exposure was: 2/110.

Skin Irritation: For a 24-hour exposure, the Primary Irritation Score (PIS) in rabbits is: 0.7/8.

Skin Sensitization: No product toxicology data available.

Acute Dermal Toxicity: LD50: >2.0g/kg (rabbit).

Acute Oral Toxicity: LD50: >5 g/kg (rat)

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

96 hour(s) LC50: >5000 mg/l (WAF) (*Oncorhynchus mykiss*)

96 hour(s) LC50: >5000 mg/l (WAF) (*Mysidopsis bahia*)

This material is not expected to be harmful to aquatic organisms.

ENVIRONMENTAL FATE

This material is considered inherently biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: PETROLEUM LUBRICATING OIL, NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR

Additional Information: NOT HAZARDOUS BY U.S. DOT. ADR/RID HAZARD CLASS NOT APPLICABLE.

IMO/IMDG Shipping Description: PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

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ICAO/IATA Shipping Description: PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES: 1. Immediate (Acute) Health Effects: NO
 2. Delayed (Chronic) Health Effects: NO
 3. Fire Hazard: NO
 4. Sudden Release of Pressure Hazard: NO
 5. Reactivity Hazard: NO

REGULATORY LISTS SEARCHED:

01-1=IARC Group 1	03=EPCRA 313
01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
	07=PA RTK

No components of this material were found on the regulatory lists above.

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Hydraulic oil)

WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

HMIS RATINGS: Health: 1 Flammability: 1 Reactivity: 0
 (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

LABEL RECOMMENDATION:

Label Category : INDUSTRIAL OIL 1 - IND1

REVISION STATEMENT: This revision updates the following sections of this Material Safety Data Sheet: 12.
Revision Date: August 29, 2006

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Government Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	MSDS - Material Safety Data Sheet

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Material Safety Data Sheet

CVX - Chevron	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Chevron Energy Technology Company, 100 Chevron Way, Richmond, California 94802.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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Exhibit 19

GEN-6 CBO Approvals Condition of Certification GEN-6

Rudy, Holly

From: jamie.saldana@us.bureauveritas.com
Sent: Friday, November 12, 2010 4:52 PM
To: Fairhall, Christopher; Ravotta, Christian; Maniyar, Lisa
Cc: carlos.larios@us.bureauveritas.com; theresa.gutierrez@us.bureauveritas.com;
terry.vosler@us.bureauveritas.com; bruce.boyer@us.bureauveritas.com
Subject: 25542-000-L0E-GGG-00148 - CBO Submittal Package - GEN-6-2.0-Testing Agency
Personnel - Resumes-PC1- Conditionally Approved / Comments

Hello,

The Ivanpah submittal "GEN-6-2.0-Testing Agency Personnel - Resumes-PC1," has been reviewed, conditionally approved and issued comments, you will find the documents on BVnet under the respective title, feel free to contact me with any questions or concerns.

Respectfully,



Jamie Saldana
Project Coordinator – Power & Utilities
Bureau Veritas North America, Inc.
180 Promenade Circle #150
Sacramento, CA 95834
P: 916.514.4508
F: 916.617.2068
jamie.saldana@us.bureauveritas.com
www.us.Bureauveritas.com/energyusa
ISO 9001:2000 Certified

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