

LOS ESTEROS CRITICAL ENERGY FACILITY, PHASE 2 (03-AFC-2)

Monthly Compliance Report #7

LOS ESTEROS CRITICAL ENERGY FACILITY, LLC

December 2011

For

California Energy Commission

**Los Esteros Critical Energy Facility, Phase 2
(03-AFC-2)
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1. LECEF Project Construction Status

Construction continued during the monthly reporting compliance period focusing primarily on the cooling tower basin (CT), generator step-up transformer (GSU), steam turbine generator (STG) foundation, and circulation water pipe (CWP); key components of the Los Esteros Critical Energy Facility's infrastructure. There were no significant delays or changes to the project schedule. The project is approximately 14.69% complete (cumulative through December 21, 2011) and construction is at 9.33%.

Work continues to proceed with engineering, procurement, permitting and compliance (i.e., environmental monitors) as well as scheduling and construction planning. In addition, submittals to the CBO continue as the site undergoes transformation. During the past compliance reporting period it appeared as though the foundation and underground utilities work would be completed by the end of 2011. Due to the recent holidays, etc., progress has slowed but is now ramping up. Also, started during the compliance reporting period, is LECEF's "reverse turnover" process where LG Constructors, the EPC contractor, is slated to take care, custody and control of the plant in mid-January 2012, to begin the upgrade and modification to existing plant equipment. Note: LECEF ceased operations at the end of December.

Listed below are the major events that have occurred during the monthly compliance reporting period:

- Completed field fabrication of various sections of circulation water pipe
- Completed fabrication, installation, and testing of instrument air system, service water system, and boiler blow down system pipes at GSU transformer foundation
- Completed installation of GSU transformer foundation; Started constructing GSU walls
- Continued installation for new service air system line from existing sleeper pipe rack north of potable water storage tank to new warehouse
- Completed installation of flow straightening vanes, handrails, and trash embed screens in cooling tower basin
- Structural members staged for erection at new cooling tower basin
- Placed rebar for GSU slab on grade
- Completed water treatment slab on grade
- Completed excavation (hand-digging) for boiler feed pump foundations-unit 4. Continue excavation (hand-digging) to expose existing utilities for units 1 & 2. Unit 3 boiler feed pump form work and rebar installation has been completed
- Completed backfill for water treatment foundation (WTF) and excavation for duct-bank at WTF to the warehouse
- Relocated stockpile on north side of the plant to the east side and prepared heat recovery steam generator (HRSG) laydown area
- Completed STG foundation

Work in Progress:

- Continue fabrication of pipe waste water collection (WWC) & service water system

(SWS) in the pipe fabrication area

- Continue installing GSU transformer blast wall forms and rebar
- Continue installing drain lines at the new sanitary sewer lift station
- Started excavation of pipe line ditch on south side of STG foundation
- Continue layout and installation of anchor bolts in the cooling tower basin and started installing columns and braces
- Continue potholing for interior foundations between existing HRSGs
- Placing duct bank to warehouse
- Installation of slurry and backfill atop duct-bank at water treatment foundation to the warehouse and the removal of the shoring
- Continue excavation and pot-holes to expose existing utilities for new duct bank from existing manhole MH-001 to GSU foundation
- Continue excavation (hand-digging) for units 1, 2, 3, & 4 HRSG blow-down tanks and sumps. Continue relocation/removal of existing underground drain lines that fall within foundations, and installation of trench boxes in excavations
- Continue installation of drain pipe lines (WWC) located at south side and west side of STG foundation. Continued bedding installation and backfill on completed drain pipe line
- WWC line tie-in installation at the new water treatment expansion foundation
- Started excavation for CWS line from condenser water box drains to south side of the cooling tower basin
- Continued installation of cooling tower fiber-reinforced plastic columns and braces
- LECEF continues reviewing submittals from LECEF equipment vendors and CH2MHILL

2. Table of Required Monthly Compliance Report Documents

COM-6	N/A, requirement met	AQ-3	N/A, first fire
GEN-2	A copy of the most recent schedule is attached	AQ-4	N/A, first fire
GEN-3	Email from CBO confirming receipt of payment is attached	AQ-6	N/A, first fire
GEN-6	CBO disposition approving special Inspector(s)	AQ-9	N/A, first fire
GEN-7	None this month	AQ-10	N/A, first fire
GEN-8	N/A. Applicable work not completed for the reporting period	WS-4	A copy of the most recent information is attached
CIVIL-1	CBO approved disposition is enclosed (See GEN-6)	BIO-2	A copy of the Designated Biologist's summary report is attached
CIVIL-3	A copy of the NCR log is attached	BIO-4	The number of WEAP participants is provided including cumulative total
CIVIL-4	N/A. Applicable work not complete for the reporting period	BIO-20	None this month
STRUC-1	A copy of the most recent information is attached	BIO-21	No additional information required
STRUC-3	N/A. Applicable work not complete for the reporting period	CUL-2	A copy of the anticipated project activity is attached
STRUC-4	N/A. Applicable work not complete for the reporting period	CUL-4	A copy of the acknowledgement forms for the reporting period is attached
MECH-1	A copy of the most recent information is attached	CUL-5	A copy of the CRS Monitor's report is attached
MECH-2	N/A. Applicable work not complete for the reporting period	PAL-3	N/A, requirement met
ELEC-1	A copy of the most recent information is attached	PAL-4	A copy of the PRS Monitor's report is attached

TSE-1	N/A. Applicable work not complete for the reporting period	WASTE-5	N/A. A copy of the USEPA, Region 9 RCRA ID was submitted in previous MCR
TSE-4	N/A. Applicable work not complete for the reporting period	SOCIO-1	A copy of the activities report is attached
AQ-SC3	Discussion of the dust monitoring process is attached	TRANS-1	None this month
AQ-SC5	Information is provided for this COC, as attached	TRANS-2	None this month
AQ-1	N/A, first fire	TRANS-3	None this month
AQ-2	N/A, first fire	TRANS-4	Information is provided for this COC, as attached

3. Compliance Matrix

A copy of the construction compliance matrix is attached.

4. Conditions Satisfied During The Reporting Period

The conditions satisfied during the reporting period include:

STRUC-1, GEN-2- Note there are some documents associated with these conditions that are still in review.

5. Submitted Deadline Not Met

There are no past due compliance submittals.

6. Approved Condition of Certification Changes

- LECEF, Phase 2 license amendment filed on October 30, 2009, and approved on February 2, 2011.
- A change to verification language of HAZ-2 was submitted to the CPM on February 15, 2011 and approved by staff on March 14, 2011.
- A change to verification language of TSE-1 was submitted to the CPM on February 22, 2011 and approved by staff on February 28, 2011.
- A change to verification language of BIO-11 was submitted to the CPM on March 15, 2011 and approved by staff on 3/16/11.

7. Filings of Permits from other agencies

- Storm water documentation for construction (Annual Report): Submitted on-line to State Water Resources Control Board on August 31, 2011
- Authority to Construct Renewal, LECEF2: Submitted to the Bay Area Air Quality Management District on August 29, 2011

8. Projection of Compliance Activities for November

GEN-2	Schedule will be updated monthly
GEN-3	CBO payments will be submitted monthly
AQ-SC-3	The AQCMM report will be updated monthly
AQ-SC-5	The AQCMM report will be updated monthly
WS-4	The Safety Inspection report will be updated monthly

BIO-2	The Designated Biologist's report will be updated monthly
BIO-4	WEAP training will be completed for new employees as needed
CUL-2	A current schedule will be provided to the CRS when available
CUL-4	WEAP training will be completed for new employees as needed
PAL-3	WEAP training will be completed for new employees or visitors as needed, but is currently being provided Monday and Wednesday at 7: 00 A.M.
PAL-4	The PRS report will be updated monthly

9. Additions to the On-site Compliance File

- WEAP training records
- Cultural Monitoring Reports
- Paleontology Monitoring Reports
- Biological Monitoring Reports

10. Any requests, with justification, to dispose of items that are required to be maintained in the project owner's compliance file?

No items disposed of during the reporting period.

11. Listing of complaint, notices of violations, official warnings and citations

None received during the reporting period.

**CONDITION OF CERTIFICATION
GEN-2**

**Los Esteros Critical Energy Facility, Phase 2
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Activity ID	Activity Name	OD	RD	TF	% Comp	Start	Finish	December 2011			January 2012		
								12	19	26	02	09	16
CIVIL / STRUCTURAL / ARCHITECTURAL													
GENERAL SITE WORK													
SITWORK													
CS0SIT1160	FINISH BACKFILL UG CW PIPE-PHASE 4B	2	0		100%	22-Dec-11 A	22-Dec-11 A						
CONCRETE													
CS0STGE181	BACKFILL STG GSU FNDN	4	4	2	0%	06-Jan-12	11-Jan-12						
CS0OWS125	Complete BACKFILL /REPLACE STONE OIL WATER SEPERATOR FDN	2	2	369	0%	19-Jan-12	20-Jan-12						
MAJOR AND MISC STRUCTURAL CONCRETE													
CONCRETE													
CS0STGF200	STG TABLE TOP - CURE TIME	30	0		100%	22-Nov-11 A	20-Dec-11 A						
CS0STGF220	STG FOUNDATION COMPLETE	0	0		100%		20-Dec-11 A						
CS0WT1001	POUR CONCRETE WTR TREATMENT PAD FDN	1	0		100%	21-Dec-11 A	21-Dec-11 A						
CS3HRSG102	EXCAV/FORM/REBAR HRSG#3 BFP FDN	8	2	13	50%	08-Dec-11 A	28-Dec-11 A						
CS3HRSG103	POUR CONCRETE HRSG#3 BFP FDN	1	1	13	0%	29-Dec-11	29-Dec-11						
CS4HRSG102	EXCAV/FORM/REBAR HRSG#4 BFP FDN	15	6	13	5%	02-Dec-11 A	04-Jan-12						
CS0STGE150	FORM/REBAR STG GSU WALLS	7	6	2	0%	14-Dec-11 A	04-Jan-12						
CS0STGE160	POUR CONCRETE STG GSU WALLS	1	1	2	0%	05-Jan-12	05-Jan-12						
CS4HRSG103	POUR CONCRETE HRSG#4 BFP FDN	1	1	27	0%	05-Jan-12	05-Jan-12						
CS3HRSG103a	BACKFILL CONCRETE HRSG#3 BFP FDN	1	1	13	0%	05-Jan-12	05-Jan-12						
CS0WT1002	BACKFILL WTR TREATMENT PAD FDN	1	1	28	0%	10-Jan-12*	10-Jan-12						
CS2HRSG102	EXCAV/FORM/REBAR HRSG#2 BFP FDN	7	7	14	0%	03-Jan-12*	11-Jan-12						
CS1HRSG102	EXCAV/FORM/REBAR HRSG#1 BFP FDN	7	7	22	0%	03-Jan-12*	11-Jan-12						
CS4HRSG103A	BACKFILL CONCRETE HRSG#4 BFP FDN	1	1	27	0%	11-Jan-12	11-Jan-12						
CS2HRSG103	POUR CONCRETE HRSG#2 BFP FDN	1	1	14	0%	12-Jan-12	12-Jan-12						
CS1HRSG103	POUR CONCRETE HRSG#1 BFP FDN	1	1	22	0%	12-Jan-12	12-Jan-12						
CS0STGE130	FORM/REBAR STG GSU PEDESTAL	6	6	393	0%	06-Jan-12*	13-Jan-12						
CS0STGE140	POUR CONCRETE STG GSU PEDESTAL	1	1	393	0%	16-Jan-12	16-Jan-12						
CS2HRSG103A	BACKFILL CONCRETE HRSG#2 BFP FDN	1	1	14	0%	18-Jan-12	18-Jan-12						
CS1HRSG103A	BACKFILL CONCRETE HRSG#1 BFP FDN	1	1	22	0%	18-Jan-12	18-Jan-12						
CS0CW1011	EXCAV/FORM/REBAR CCW HT EXCHANGER FNDN	15	15	72	0%	29-Dec-11	19-Jan-12						
CS0CW1012	POUR CONCRETE CCW HT EXCHANGER FNDN	1	1	72	0%	20-Jan-12	20-Jan-12						
CS2WW-1UGSMP	Exc/Form/Rebar/Pour SUMP#2 SUMPS	20	20	18	0%	12-Dec-11 A	24-Jan-12						
CS3WW-1UGSMP	Exc/Form/Rebar/Pour SUMP#3 SUMPS	20	20	13	0%	12-Dec-11 A	24-Jan-12						
CS1WW-1UGSMP	Exc/Form/Rebar/Pour SUMP#1 SUMPS	20	11	18	0%	13-Dec-11 A	24-Jan-12						
CS4WW-1UGSMP	Exc/Form/Rebar/Pour SUMP#4 SUMPS	20	11	13	0%	13-Dec-11 A	24-Jan-12						
CS2HRSG100	EXCAV/FORM/REBAR HRSG#2 BLOWDOWN TANK FDN	10	10	8	0%	11-Jan-12	24-Jan-12						
CS3HRSG100	EXCAV/FORM/REBAR HRSG#3 BLOWDOWN TANK FDN	10	10	8	0%	11-Jan-12	24-Jan-12						

Remaining Level of Effort
 Actual Work
 Remaining Work
 Critical Remaining Work

Activity ID	Activity Name	OD	RD	TF	% Comp	Start	Finish	December 2011			January 2012			
								12	19	26	02	09	16	
CS1HRSG100	EXCAV/FORM/REBAR HRSG#1 BLOWDOWN TANK FDN	10	10	8	0%	18-Jan-12	31-Jan-12							
CS4HRSG100	EXCAV/FORM/REBAR HRSG#4 BLOWDOWN TANK FDN	10	10	8	0%	18-Jan-12	31-Jan-12							
PIPING														
UNDERGROUND PIPING SYSTEMS														
UG PIPING														
CS0PA-U11	INSTALL U/G PA PIPING-AIR COMP TO WHSE	30	0	98	10%	07-Nov-11 A	28-Dec-11							
CS0PW-U01	INSTALL U/G PW PIPING-PW TANK TO WHSE	10	3	96	0%	15-Dec-11 A	29-Dec-11							
CS0WW-U02	INSTALL U/G WW PIPING-STG / OWS AREA TO PROC SUMP	50	11	83	15%	02-Nov-11 A	18-Jan-12							
CS0PA-U13	INSTALL U/G PA PIPING-RACK TO CTG AREA	30	30	66	0%	30-Dec-11*	10-Feb-12							
CS0CF-U10	INSTALL U/G CF PIPING-RACK TO CYCLE CF SKID	30	30	66	0%	30-Dec-11*	10-Feb-12							
CS0DWPU10	INSTALL U/G PIPING-CTG AREA TO CYCLE CF SKID	30	30	65	0%	03-Jan-12*	13-Feb-12							
CS0BVDU10	FAB & NSTALL U/G BBS PIPING	30	30	63	0%	05-Jan-12	15-Feb-12							
ELECTRICAL / INSTRUMENTATION														
UNDERGROUND ELECTRICAL SYSTEMS														
UG ELECT DUCTBANK														
CS0DB1030	UG DUCTBANK - POUR CONCRETE PDC 12 TO WHSE	1	0		100%	20-Dec-11 A	20-Dec-11							
CS0DB1200	UG DUCTBANK - EXCAVATE WHSE TO SSW PUMP	1	0		100%	20-Dec-11 A	21-Dec-11							
CS0DB1220	UG DUCTBANK - INSTALL UG CONDUIT WHSE TO SSW PUMP	1	0		100%	22-Dec-11 A	22-Dec-11							
CS0DB1030A	UG DUCTBANK - CURE CONCRETE PDC 12 TO WHSE	3	0		100%	22-Dec-11 A	24-Dec-11							
CS0DB1040	UG DUCTBANK - BACKFILL / REPLACE STONE PDC 12 TO WHSE	5	5	90	0%	27-Dec-11	03-Jan-12							
CS0DB1230	UG DUCTBANK - POUR CONCRETE WHSE TO SSW PUMP	1	1	87	0%	04-Jan-12*	04-Jan-12							
CS0GND1E20	Exc, Form, Conduit, Pour 115KV Extension	15	8	399	0%	21-Dec-11 A	06-Jan-12							
CS0DB11230A	UG DUCTBANK - CURE CONCRETE WHSE TO SSW PUMP	3	3	121	0%	05-Jan-12	07-Jan-12							
CS0DB1240	UG DUCTBANK - BACKFILL / REPLACE STONE WHSE TO SSW PUMP	1	1	86	0%	09-Jan-12	09-Jan-12							
CS0DB1400	UG DUCTBANK - EXCAVATE PDC 5 TO O/W SEPERATOR	4	4	73	0%	12-Jan-12	17-Jan-12							
CS0DB1420	UG DUCTBANK - INSTALL UG CONDUIT PDC 5 TO O/W SEPERATOR	4	4	73	0%	18-Jan-12	23-Jan-12							

Remaining Level of Effort
 Remaining Work
 Actual Work
 Critical Remaining Work

**CONDITION OF CERTIFICATION
GEN-3**

**Los Esteros Critical Energy Facility, Phase 2
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Rodney Jones

From: Donald C Wimberly <dwimberly@aimscorp.com>
Sent: Thursday, January 05, 2012 2:40 PM
To: Rodney Jones
Subject: RE: Receipt of CBO Payment for December

Rod

Payment for CBO services on LECEF has been received

Donald C. Wimberly, P.E.
Delegate CBO
Cell: 408-930-4066
Email: dwimberly@aimscorp.com

From: Rodney Jones [<mailto:Rodney.Jones@calpine.com>]
Sent: Thursday, January 05, 2012 2:25 PM
To: dwimberly@aimscorp.com
Subject: RE: Receipt of CBO Payment for December

Hi Don,

Per COC GEN-3, please confirm if you have received payment from Calpine for December.

Kindest regards,

Rod Jones
Compliance Manager
LECEF, Phase 2
CPN Construction Management Co., Inc.
800 Thomas Foon Chew Way
San Jose, CA 95134
408-635-1322 (Direct)
281-814-8316 (Cell)

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**CONDITION OF CERTIFICATION
GEN-6**

**Los Esteros Critical Energy Facility, Phase 2
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DISPOSITION

December 6, 2011

PROJECT: LOS ESTEROS CRITICAL ENERGY FACILITY PHASE 2
CEC Docket No.: 03-AFC-2

CBO COC: GEN-6
CBO Package No: CBO-052

Review Subject: David Knight Resume; Gary Klopson Hilti Certification;
Special Inspection Matrix

Applicable Documents: Transmittal 01315

APPROVED

1. Future revisions to this documentation, if any, shall be submitted to the CBO for review.
2. For any questions you may contact Don Wimberly by cell phone 408-930-4066 or by email dwimberly@aimscorp.com.

Sincerely,

Don Wimberly
Delegate CBO

Sent to Distribution List

**CONDITION OF CERTIFICATION
CIVIL-1**

**Los Esteros Critical Energy Facility, Phase 2
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CIVIL-1:

(See GEN-6)

**CONDITION OF CERTIFICATION
CIVIL-3**

**Los Esteros Critical Energy Facility, Phase 2
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Contractor/Supplier	NCR No.	Drawing No.	Location	Date Generated	Description	NCR Type	Date to Engineering	Date Answered	Date Comp	Date Closed
Overaa/Duran & Venables	1	LE-GEN-DE-P9-0001 sht 1 R/0	Phase II utility reroute	6/13/11	Damage to Instrument Air Line AGANA006	Repair	6/13/11	6/13/11	9/24/11	9/24/11
Overaa/Duran & Venables	2	LE-GEN-DE-P9-0001 sht 1 R/0	Phase II utility reroute	6/14/11	Damage to Firewater Line 10"P3GFP005	Accept As Is / Replace	6/20/11	6/20/11	10/18/11	11/10/11
LG Constructors	3	LGC Quality Manual	Cooling Tower	6/21/11	Hold Point not signed off Concrete additional of fibers not in mix	Rework	6/21/11	6/21/11	6/23/11	6/24/11
Hanson & Harder Mechanical	4	CH2M HILL spec 402319.01 and Hanson Drawing	Circulating Water	6/22/11	Leak at metal to Concrete interface 4th to 5th MK43 on South Line Base metal gouge 3rd to 4th MK43 On South Line	Repair / Accept As Is	6/22/11	6/27/11	9/2/11	11/10/11
Overaa	5	CH2M Hill spec 033000 and drawing LE-CTW-DE-S7-0160sec. A	Cooling Tower Wall Placement	7/26/11	Concrete Construction joint not roughened as per specification	Accept As Is	7/27/11	7/27/11	8/3/11	8/8/11
Harder Mechanical	6	Hanson Drawings 110090-DR03 and 110090-LD01	Circulating Water interior grout joints at welds 2, 3, 5 & 6	7/27/11	Circulating water piping interior joints not pre soaked for time as required per manufacturers instructions	Rework	8/1/11	8/1/11	11/10/11	11/10/11
Hanson	7	CH2M Hill Specification 40231901 Section 1.3.A	Circulating Water	8/2/11	48" and smaller Circulating Water pipe designed and supplied with exterior welds not interior as required by specification	Rework	8/2/11	8/23/11	10/6/11	10/6/11
Overaa	8	CH2M Hill Specification 033000 Rev.2 And ACI 309R	Cooling Tower Wall Placement	8/5/11	Concrete wall placement has honeycomb at base of wall to floor slab at various locations	Rework	8/5/11	8/12/11	9/30/11	9/30/11
Harder Mechanical	9	Harder Welding Procedures	Circulating Water pipe welds #21 and 22	8/10/11	Contract requires that prior to start of welding. Welding Procedures require review and approval LGC and Calpine	Rework	8/10/11	8/10/11	8/10/11	8/10/11
Harder Mechanical	10	Harder Welding Procedures	Circulating Water pipe welds #18, 19, 20 and 74	8/11/11	Contract requires that prior to start of welding. Welding Procedures require review and approval LGC and Calpine	Rework	8/11/11	8/11/11	8/11/11	8/11/11
Overaa/Central Concrete	11	CH2M Hill Specification 033000	STG Foundation	9/10/11	Concrete placed in STG foundation with 7-1/2 slump which exceeds maximum allowed by specification	Accept As Is	9/12/11	9/13/11	10/5/11	11/10/11
Hanson	12	CH2M HILL spec 402319.01 and Hanson Drawing	Circulating Water	10/27/11	Leak at metal to Concrete interface S-36 to Mk80 on North 48" Line	Repair	10/28/11	10/31/11	11/11/11	11/30/11

**CONDITION OF CERTIFICATION
STRUC-1**

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STRUC-1:

Per the requirements of STRUC-1, a statement will be provided by the engineer of record that the plans, specifications, and calculations have been prepared in compliance with the applicable LORS. It is currently planned for this statement to be issued upon completion of the design and CBO review process and upon addressing field construction changes which require the approval by the engineer of record. Therefore, this record will be provided in a future Monthly Compliance Report consistent with the design and construction schedule.

**CONDITION OF CERTIFICATION
MECH-1**

**Los Esteros Critical Energy Facility, Phase 2
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MECH-1:

Per the requirements of *MECH-1*, a statement will be provided by the engineer of record that the plans, specifications, and calculations have been prepared in compliance with the applicable LORS. It is currently planned for this statement to be issued upon completion of the design and CBO review process and upon addressing field construction changes which require the approval by the engineer of record. Therefore, this record will be provided in a future Monthly Compliance Report consistent with the design and construction schedule.

**CONDITION OF CERTIFICATION
ELEC-1**

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ELEC-1:

Per the requirements of *ELEC-1*, a statement will be provided by the engineer of record that the plans, specifications, and calculations have been prepared in compliance with the applicable LORS. It is currently planned for this statement to be issued upon completion of the design and CBO review process and upon addressing field construction changes which require the approval by the engineer of record. Therefore, this record will be provided in a future Monthly Compliance Report consistent with the design and construction schedule.

**CONDITION OF CERTIFICATION
TSE-4**

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TSE-4:

Per the requirements of *TSE-4*, a statement will be provided by the engineer of record that the plans, specifications, and calculations have been prepared in compliance with the applicable LORS. It is currently planned for this statement to be issued upon completion of the design and CBO review process and upon addressing field construction changes which require the approval by the engineer of record. Therefore, this record will be provided in a future Monthly Compliance Report consistent with the design and construction schedule.

**CONDITION OF CERTIFICATION
AQ-SC3**

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- **AQ-SC-3 - Constructive Fugitive Dust Control:** The project owner shall include in the MCR
 - (1) a summary of all actions taken to maintain compliance with this condition
 - Daily watering using a water truck continuously applying water on all areas of activity on the site including excavations, truck routes (paved and unpaved), and active stockpiles.
 - Use of a street sweeper to keep paved areas clean
 - Use of a dust meter which takes regular readings throughout the day with the data downloaded and reviewed each day.
 - Dust meters are visually checked throughout the day to assure compliance.
 - Soil stockpiles have been covered with a soil stabilizer with the open face (working side) covered with plastic and the end of each day. The stockpile is being used as backfill and is decreasing in size.
 - Enforcement of the no visual dust policy.
 - Provide training for compliance to all staff
 - Detailed training is provided to all lead staff.
 - (2) copies of any complaints filed with the air district in relation to project construction
 - None noted for December 2011
 - (3) any other documentation deemed necessary for the CPM and AQCMM to verify compliance with this condition
 - **None noted for December 2011**

**CONDITION OF CERTIFICATION
AQ-SC5**

**Los Esteros Critical Energy Facility, Phase 2
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- **AQ-SC-5 - Diesel-Fueled Engine Control:** The project owner shall submit the following: (1) a summary of all actions taken to maintain compliance with this condition
 - Equipment is inspected daily and maintenance completed as required.
 - All diesel-fueled engines used in the construction of the facility shall be fueled only with ultra-low sulfur diesel, which contains no more than 15 ppm sulfur. Confirmed by fuel receipts.
 - All diesel-fueled engines used in the construction of the facility shall have clearly visible tags issued by the on-site AQCOMM showing that the engine meets the conditions set forth herein. Confirmed by CARB tags.
 - All construction diesel engines, which have a rating of 100 hp or more, shall meet, at a minimum, the Tier 1 California Emission Standards for Off-Road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, section 2423(b)(1) unless certified by the on-site AQCOMM that such engine is not available for a particular item of equipment. Confirmed by inspection.
 - All heavy earthmoving equipment and heavy duty construction related trucks with engines meeting the requirements of (c) above shall be properly maintained and the engines tuned to the engine manufacturer's specifications. Confirmed by Subcontractor equipment logs
 - All diesel heavy construction equipment shall not remain running at idle for more than five minutes, to the extent practical. Confirmed by observation throughout the day

- (2) copies of all diesel fuel purchase records, Tyler Deeds
 - MBI/ 172 gallons of diesel
 - Overaa/ 200 gallons of diesel
 - Duran and Venables/ 570 gallons of diesel
 - Harder/ 580 of Diesel and 211 of gasoline

- (3) 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 Tyler Deeds

Equipment

- Duran and Venables
- Street Sweeper
 - Compactor Cat CB-224E
 - Excavator Cat 330
 - Water Truck
 - Compactor Cat CP-433E

- 2 ten wheel dump trucks
- Grader Box Deere 210
- Excavator Bobcat E35
- Track Loader Cat 963D

MBI

- Backhoe Deere 710

Overaa

- Man lift JLG 860SJ
- Fork lift JLG G10-554

Harder

Fork lift Grade all 534D9-45

- (4) any other documentation deemed necessary by the CPM and AQCMM to verify compliance with this condition

None Noted for December 2011

**CONDITION OF CERTIFICATION
WS-4**

**Los Esteros Critical Energy Facility, Phase 2
Monthly Compliance Report #7
December 2011**

MONTHLY SAFETY PERFORMANCE REPORT

Project Name: LECEF
 Report Prepared by Gary Brown 408-839-4759

Month: December

Hours Worked 1/27/11 through 12/26/11

Employer	Safety Statistics																																	
	This Month											Year to Date 2011											Project to Date											
	# OF Emp	Hours Worked	N	E	F	R	T	R	R	D	D	D	Hours Worked	N	E	F	R	T	R	R	D	D	D	Hours Worked	N	E	F	R	T	R	R	D	D	D
		M	N	A	C	R	I	D	C	R	A		M	V	A	C	I	D	C	R	A	C		M	V	A	C	I	D	C	R	A	C	
LGC Staff	18	3,150	0	0	0	0	0.0	0	0.0	0	0.0	19,316	0	0	2	0	0.0	0	0.0	0	0.0	0	19,316	0	0	2	0	0.0	0	0.0	0	0.0	0	0.0
Overaa	20	3,408	0	2	0	0	0.0	0	0.0	0	0.0	25,314	1	2	0	0	0.0	0	0.0	0	0.0	0	25,314	1	2	0	0	0.0	0	0.0	0	0.0	0	0.0
Harder	12	3,416	0	0	1	0	0.0	0	0.0	0	0.0	18,883	5	1	2	0	0.0	0	0.0	0	0.0	0	18,883	5	1	2	0	0.0	0	0.0	0	0.0	0	0.0
Kier-Wright	2	66	0	0	0	0	0.0	0	0.0	0	0.0	112	0	0	0	0	0.0	0	0.0	0	0.0	0	112	0	0	0	0	0.0	0	0.0	0	0.0	0	0.0
TRC	2	0	0	0	0	0	0.0	0	0.0	0	0.0	314	0	0	0	0	0.0	0	0.0	0	0.0	0	314	0	0	0	0	0.0	0	0.0	0	0.0	0	0.0
TLG	1	215	0	0	0	0	0.0	0	0.0	0	0.0	1,934	0	0	0	0	0.0	0	0.0	0	0.0	0	1,934	0	0	0	0	0.0	0	0.0	0	0.0	0	0.0
Hanson Pressure Pipe	1	0	0	0	0	0	0.0	0	0.0	0	0.0	100	0	0	0	0	0.0	0	0.0	0	0.0	0	100	0	0	0	0	0.0	0	0.0	0	0.0	0	0.0
Contra Costa Electric	2	0	0	0	0	0	0.0	0	0.0	0	0.0	100	1	0	0	0	0.0	0	0.0	0	0.0	0	100	1	0	0	0	0.0	0	0.0	0	0.0	0	0.0
CCMCI	8	820	0	0	0	0	0.0	0	0.0	0	0.0	5,347	1	0	0	0	0.0	0	0.0	0	0.0	0	5,347	1	0	0	0	0.0	0	0.0	0	0.0	0	0.0
Telecom Plus	6	0	0	0	0	0	0.0	0	0.0	0	0.0	1,171	0	0	0	0	0.0	0	0.0	0	0.0	0	1,171	0	0	0	0	0.0	0	0.0	0	0.0	0	0.0
Bay Area Construction	4	0	0	0	0	0	0.0	0	0.0	0	0.0	965	0	0	0	0	0.0	0	0.0	0	0.0	0	965	0	0	0	0	0.0	0	0.0	0	0.0	0	0.0
CMT	2	141	0	0	0	0	0.0	0	0.0	0	0.0	983	0	0	0	0	0.0	0	0.0	0	0.0	0	983	0	0	0	0	0.0	0	0.0	0	0.0	0	0.0
DSM	2	0	0	0	0	0	0.0	0	0.0	0	0.0	387	0	0	0	0	0.0	0	0.0	0	0.0	0	387	0	0	0	0	0.0	0	0.0	0	0.0	0	0.0
McClure Electric	4	0	0	0	0	0	0.0	0	0.0	0	0.0	275	0	0	0	0	0.0	0	0.0	0	0.0	0	275	0	0	0	0	0.0	0	0.0	0	0.0	0	0.0
Water Cooler Depot	22	3,361	2	0	0	0	0.0	0	0.0	0	0.0	5,197	2	0	0	0	0.0	0	0.0	0	0.0	0	5,197	2	0	0	0	0.0	0	0.0	0	0.0	0	0.0
	0						####		####		####						####		####		####							####		####		####		
	0						####		####		####						####		####		####						####		####		####			
	0						####		####		####						####		####		####						####		####		####			
	0						####		####		####						####		####		####						####		####		####			
	0						####		####		####						####		####		####						####		####		####			
Totals	106	14,577	2	2	1	0	0.0	0	0.0	0	0.0	80,398	10	3	4	0	0.0	0	0.0	0	0.0	80,398	10	3	4	0	0.0	0	0.0	0	0.0			

Legend: NM=Near Miss; ENV= Environmental Case; FA=First Aid; REC=Recordable; TRIR=Total Recordable Injury Rate; RDC=Restricted Duty Case; RDCR=Restricted Duty Case Rate; DAC=Days Away Case; DACR=Days Away Case Rate

HSSE Activities			
	This Month	Year-to-Date	Project-to-Date
Safety/WEAP Orientations	31	409	409
Safe Behavior Observations	65	435	435
HSSE Audits	40	309	309
Pre-Task Plans (PTP)	105	1192	1192

During the month of December
 There was no lost time recordable to report.
 There was no first aid to report.
 There was one Near Miss.
 There were no Work Stoppages.
 An all hands Safety Meeting is held each Monday Morning at 7:00AM lasting no longer than fifteen minutes.
 Will continue with monitoring activities.
 There were two environmental compliance issues.

Monthly Safety Monitor Report

Report Created by: Marc Wetter

Date: December 6, 2011

COC: Worker Safety 4

Safety Monitor: Signet Testing Labs

Site: Los Esteros Critical Energy Facility (San Jose, CA)

Monthly Safety Monitor Report:

- Number of employees attended site orientation for the month of October was 41.
- CBO Safety provided 3 site safety observations for the month.
 - LG Constructors preformed 38 EH&S audits for the month.
 - 66 safe behavior observations were conducted.
- All safety related issues have been corrected in a timely manner.
- One first aid case occurred during the month of November.

Information was provided by Mr. Gary Brown, LG Constructors Safety Manager.



12-6-2011

Signature & Date

Safety Observation Report

Date: 12/19/2011

Project: LECEF Phase 2

Location: 800 Thomas Foon Chew Way, San Jose, Ca. 95134

Role: Safety Monitor

Purpose of visit: Independent on-site safety inspection

Weather: Sunny

Site Safety Personnel: Gary Brown, Lee Alexander, Tyler Deeds

Contractors observed on site: Kirk Contractors, Overaa, Mission City Iron, Durant Venables

Overall Observations:

Cooling Tower erection, wood framing at STG Transformer, excavations at Blowdown Tank Areas in progress.

ST Generator/Steam Turbine Slab:

Unsecured ladder (top) at west side of east concrete structure (Picture 1)

6 uncovered recess areas in slab on east side (Picture 2)

Caution tape missing at deep end of excavations, South side of slab (Picture 3)

Caution tape missing at end of slab, North West side. (Picture 4)



(1)

(2)

(3)

(4)

Positive Observations:

Witnessed Overaa daily pre-shift inspection of JLG and Scissor Lift

Caution tape and snow fence were in place and a guardrail system was being assembled at the excavations at the Blowdown Tank Areas.

Corrective Actions:

The ladder on the STG/ST slab at the west side of east concrete structure was removed. (1)

6 uncovered recess areas in STG/ST slab on east side were protected with cones and caution tape. (2)

Stakes and caution tape were placed along the deep end of excavations, South side of STG/ST slab (3)

Safety Procedures & Practices:

Number of employees that attended the site orientation on 12/19/2011. Five (5)

Met with Gary Brown and was provided access to sub-contractors Safety Manuals for review.

Discussed weekly/monthly safety stats and reporting process.

Bill Bellin

12/19/201

Signature

Date

Safety Observation Report

Date: 12/27/2011

Project: LECEF Phase 2

Location: 800 Thomas Foon Chew Way, San Jose, Ca. 95134

Role: Safety Monitor

Purpose of visit: Independent on-site safety inspection

Weather: Sunny

Site Safety Personnel: Gary Brown, Tyler Deeds

Contractors observed on site: Overra, Kirk, Durant Venables, Manual Brothers, Harden

Overall Observations:

Cooling Tower erection, wood framing at STG Transformer, excavations at Water Treatment Expansion in progress.

Pathway on the north end of the Cooling Tower is limited due to a plastic pool and generator between Cooling Tower and Metal Storage Container. (Picture 1)



Picture 1

Positive Observations:

Witnessed Durant Venables daily pre-shift inspection of Skip Loader. One front spotlight was out. Dayle, DV supervisor called in to shop for repair.

Caution tape and snow fence were in place at excavations throughout the site. Ladders were secure into the excavations at the Blowdown Tank Areas.

Overra employees were observed using proper PPE including fall protection with 100% tie off for the wood framing at STG Transformer.

Corrective Actions:

From report of 12/19/2011 Caution tape missing at end of slab, North West side.

12/27/2011 Caution tape placed at above area. (Picture 2)



Picture 2

All corrective actions noted for 12/27/2011 are being addressed.

Safety Procedures & Practices:

Met with Gary Brown and discussed the following:

LG Safety Program Revision E

Site Safe Behavior Observation Card

PPT (Pre-Task Plan Forms)

Project Safety Audit Form

Kirk Safety Program to be forwarded electronically and printed for LG file.

Bill Bellin

12/27/2011

Signature

Date

**CONDITION OF CERTIFICATION
BIO-2**

**Los Esteros Critical Energy Facility, Phase 2
Monthly Compliance Report #7
December 2011**

Biological Resources
Construction Monitoring for the
Los Esteros Critical Energy Facility

MONTHLY COMPLIANCE REPORT #7

December 2011

Prepared by:

CH2M HILL

2485 Natomas Park Drive, Suite 600

Sacramento, California 95833

Los Esteros Critical Energy Facility
MONTHLY COMPLIANCE REPORT

December 2011

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APPENDICES

- A)** Cumulative Wildlife Species Observed in or Near the Project Area
- B)** Representative Site Photographs

INTRODUCTION

Los Esteros Critical Energy Facility LLC (the Applicant) obtained a license from the California Energy Commission (CEC) for continued operation of Phase 1 of the Los Esteros Critical Energy Facility (LECEF or the project) located in San Jose, Santa Clara County, California. Phase 1 is a nominal 180 megawatt (MW) natural-gas-fired peaking power plant consisting of four simple-cycle combustion turbine generators and associated equipment. The license also authorizes conversion of the peaker power plant to combined-cycle operation. The combined-cycle conversion will involve the addition of four heat recovery steam generators (HRSG), one steam-turbine generator (STG), a six-cell, plume-abated cooling tower, and ancillary equipment to the LECEF for a total combined nominal generating capacity of 320 MW.

The Applicant originally applied for a CEC license for Phase 1 of the LECEF in August 2001, under the expedited licensing provision promulgated under California Public Resources Code (PRC) §25552. The CEC granted the Phase 1 license in August 2002, and the LECEF was constructed and became operational in March 2003. The purpose of the Phase 2 CEC Application for Certification (AFC) was to meet the requirement of PRC §25552 by recertifying (relicensing) Phase 1 and certifying Phase 2 conversion to combined-cycle, which will allow the project to achieve much higher efficiency in generating power.

As licensed and constructed, the 21-acre LECEF Phase 1 site currently consists of the following features:

- Four GE LM6000 SPRINT combustion turbine generators (CTG) with water injection
- Oxidation catalysts and selective catalytic reduction (SCR) pollution control equipment, installed within four HRSG casings and stacks (these casings were installed during Phase 1 in anticipation of Phase 2)
- A 115-kilovolt (kV) switchyard
- A 150-foot-long, wood pole transmission line to Pacific Gas and Electric Company's (PG&E) 115-kV Los Esteros-Nortech transmission line, immediately to the west of the LECEF switchyard
- A 2,700-foot-long primary access road, named Thomas Foon Chew Way, linking LECEF with Zanker Road
- A 470-foot-long emergency access road, linking Thomas Foon Chew Way and Alviso-Milpitas Road
- A 55-foot-long, 10-inch-diameter natural gas supply line between the facility and PG&E lines 101 and 109
- Two 1,500-foot-long recycled water supply lines between the facility and the City of San Jose (the City) Waste Pollution Control Plant's (WPCP) recycled water supply pipeline in Zanker Road

- A 2,000-foot-long sanitary sewer discharge line to the City's sewer main in Zanker Road
- A 1,000-foot-long stormwater line between the LECEF and the Coyote Creek flood control channel to the east. Installation of a permanent stormwater outfall, which extended the Phase 1 temporary outfall 250 feet to the low flow channel was completed in accordance with CEC licensing requirements (Phase 1) and other permit conditions (including permits from U.S. Army Corps of Engineers [USACE], Regional Water Quality Control Board [RWQCB], and California Department of Fish and Game [CDFG]) in October 2008.
- A 370-horsepower diesel fire pump

Phase 2 of the project will add the following major equipment to the Phase 1 facility:

- HRSGs tube sections and associated steam drums and piping, to be installed within and around the existing HRSG casings
- HRSG duct burners
- A six-cell, plume-abated cooling tower
- A nominal 140 MW STG
- Circulating water pumps and boiler feedwater pumps
- A deaerating surface condenser
- A second ammonia storage tank to be installed in the existing secondary containment basin
- A 230-kV underground transmission connection to the adjacent Silicon Valley Power (SVP) 230-kV Switching Station through two 115:230-kV transformers

The Project Owner owns the 34-acre project parcel on which the LECEF Phase 1/Phase 2 facilities and temporary construction parking and laydown area are situated. All Phase 2 infrastructure (including HRSGs, STGs, cooling towers, storage tanks, various pumps, and 230-kV connection) will be sited entirely within the existing fenced Phase 1 site. The 13-acre temporary construction parking and laydown area required during Phase 2 construction is located immediately south of LECEF and north of Ranch Drive. The parking and laydown area was also used for parking and laydown during Phase 1 construction. On November 3, 2010, CH2MHILL conducted a reconnaissance of the temporary work area and noted that the site had gone fallow by ruderal grassland species with evidence of routine disking.

A supplement to the Phase 1 Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP) for the LECEF (Phase 2) in the form of a technical memorandum was prepared in December 2010 as required under the conditions of certification (COCs) of the CEC license for Phase 2. The purpose of the Phase 1 BRMIMP was to ensure that actions authorized, funded, or carried out by state or federal lead agencies were not likely to jeopardize the continued existence of endangered, threatened or other special-status species. The BRMIMP described mitigation measures and guidance to protect biological resources within the Phase 1 project area. The technical memorandum reviews the existing BRMIMP, identifies potential sensitive biological resources that may occur in the proposed project area, describes the current applicability of elements of the original BRMIMP in light of the new Phase 2 license and its conditions of certification, and discusses the mitigation measures that will be implemented to

avoid and minimize impacts to sensitive biological resources during Phase 2 construction and operation. Any deficiencies in the original BRMIMP are resolved in the amendment document to comply with the new conditions of certification.

Sensitive resources that may be encountered during Phase 2 construction are limited to potential habitat for ground-nesting birds including, but not limited to, burrowing owl. The 13-acre temporary parking and laydown area is the only construction area supporting potential habitat; however routine disking that may be occurring there significantly reduces its suitability as nesting habitat. With the exception of the temporary parking and laydown area, all Phase 2 construction will take place within the existing facility footprint. As a result many of the measures and conditions included in the original BRMIMP for Phase 1 are not applicable to Phase 2.

The project was designed to avoid significant adverse impacts to sensitive biological resources to the furthest extent feasible. Protection measures were developed during informal and formal consultation with local, state, and federal agencies to minimize unavoidable project impacts. The Designated Biologist (DB) or Biological Monitor (BM) will be available during all phases of construction to ensure compliance with the mitigation measures outlined in the BRMIMP and supplemental memo. The following report includes a summary of the Phase 2 monitored biological activities for December (December 1 to December 31).

MONITORED MITIGATION MEASURES AND PERMIT CONDITIONS

Mitigation measures for the project site were developed through consultation with the CEC, and state and federal agencies. Documentation of compliance with any conditions of the agency permits will be included in this section when required on the project.

Conditions of Certification (COC)

All COC's were in compliance for the month of December. The following COC's, BIO-2, 4, 8, and 11, were applicable compliance measures for the month of December 2011 and require specific language to be included in each monthly compliance report. Therefore each is addressed separately below.

BIO-2. States that implementation of BRMIMP measures shall be reported in the monthly compliance reports by the DB (i.e., survey results, construction activities that were monitored, species observed). This written monthly report was prepared by the DB for the month of December and identifies survey results and construction activities (see General Notes and Observations section below) and species observed (Appendix A).

BIO-4. States that every worker will attend and participate in the Worker Environmental Awareness Program (WEAP) and the DB and/or BM make weekly site visits to ensure that BIO-4 was in compliance. During the month of December, BM Danielle Tannourji and DB Todd Ellwood, verified project compliance with BIO-4.

BIO-8. Addresses the implementation and application of biological impact and avoidance measures, Best Management Practices (BMPs), Stormwater Pollution Prevention Plan (SWPPP), and staking and flagging of exclusion zones of biological resources. Also, every worker must participate in the WEAP and the DB and/or BM are to make weekly site visits to ensure that BIO-8 was in compliance during the month of December.

BIO-11. Requires that preconstruction surveys be conducted for Western burrowing owl (BUOW) for all project components (i.e., facility and laydown areas) no less than 15-days and no more than 20-days prior to the initiation of construction on each project component. Written reports summarizing results will be sent to CEC Compliance Project Manager (CPM) and California Department of Fish and Game (CDFG). Surveys for BUOW were performed during April and submitted as required in anticipation of a May 11th construction start date. The DB performed preconstruction surveys on April 29, 2011 for the project site and surrounding areas following standard survey techniques for the species. No BUOW or any potential burrow sites were observed during the preconstruction survey. A written report summarizing the results of the surveys was sent to the CPM and CDFG.

The DB and/or BM made biweekly site visits to ensure that BIO-11 remained in compliance during the month of December. During December the BM investigated for owl use two small mammal burrows located immediately adjacent to the project's temporary parking area (see below for further details). During two extended surveys on December 28th and December 30th, no owl sign or activity was observed at the burrows; therefore the burrows were determined to be unoccupied by burrowing owls.

SUMMARY OF SITE ACTIVITIES

This section provides a summary of December 2011 project activities and associated biological monitoring. A cumulative wildlife species list is included in Appendix A. The BM Danielle Tannourji completed logs summarizing activities, personal interactions, and observations made during each site visit.

Site Construction

Construction in December included work on the HRSGs including tower construction, utility installation, concrete application at the proposed turbine location, grading for the new staging area, and backfilling. Monitoring visits by the DB Todd Ellwood and BM Danielle Tannourji were conducted biweekly to document permit compliance. The DB and BM were on-call all other times during the month.

Worker Environmental Awareness Training Program

The Worker Environmental Awareness Program (WEAP) was developed exclusively for the LECEF Phase 2 project. Program materials include a worker handbook, training video, posted speed limit signs and sensitive species awareness supporting posters. As required by COC BIO-4, all new employees must attend the WEAP training. A total of 23 personnel received WEAP training in December. The Calpine Safety Supervisor administered the WEAP training to new employees. Signed affidavits are kept on file by the Calpine Safety Supervisor in the site trailer.

General Daily Notes and Observations

As all construction is now located within the fence line of the existing plant and there are no new disturbed areas, monitoring has been reduced to every other week with weekly check in calls. The DB and the BMs covered project biological oversight. The monitoring efforts for December are documented below.

On December 7th, DB Todd Ellwood was on site to monitor construction activities and to remove inactive barn owl (*Tyto alba*) and common raven (*Corvus corax*) nests/roosts from LECEF's existing HRSG towers. Erection of the new cooling towers continued and various underground facilities were installed in open excavations and trenches. All work occurred within previously disturbed areas and site workers continued to park in the temporary parking area located just south of the LECEF site. The road sweeper and water truck were used periodically throughout the site and the parking lot area, respectively. The DB identified no biological issues during the work day. During this monitoring effort the LECEF project was in compliance with all biological resources COCs.

While onsite, the DB assisted the construction contractor with the removal of four barn owl roosts and inactive nests and two inactive common raven stick nests from the existing Phase 1 HRSG towers. The roosts/inactive nests were removed in anticipation of the HRSGs being dismantled and reconstructed in early 2012 as part of LECEF Phase 2. Prior to their removal, the DB carefully inspected each roost/nest for eggs and/or young. No eggs or young were

observed either by barn owl or common raven; however two roosting adult barn owls flushed unharmed from two roosting sites. Each of the HRSG ledges previously occupied by roosts/nests were subsequently covered with plastic sheeting and/or netting to discourage future use by owls and ravens. Site personnel and the DB/BM during site visits will monitor for signs of future bird use in the HRSGs, such as the presence of owl pellets and scat on the ground and/or observation of initial phases of nest building. Any partially constructed nest will be removed to discourage egg-laying.

On December 16th, BM Danielle Tannourji was on site to monitor construction activities. Utilities installation continued at the cooling towers site while tower construction at the HRSG site continued. In addition, concrete application was ongoing at the proposed turbine location, while other crews graded the northern region in preparation for the new staging area. The BM identified no biological issues during the work day. The road sweeper and water truck were used periodically throughout the site and the parking lot area, respectively. During this monitoring effort the LECEF project was in compliance with all biological resources COCs.

On December 28th, BM Danielle Tannourji was on site to monitor construction activities. Tower construction and concrete applications at the HRSG sites were ongoing while construction of the cooling towers continued. The staging area in the northern section of the project site was still undergoing preparation. The site looked well prepared for the rainy season with well maintained silt fences and soil protection measures. The BM identified no biological issues during the work day. The road sweeper and water truck were used periodically throughout the site and the parking lot area, respectively. During this monitoring effort the LECEF project was in compliance with all biological resources COCs.

The BM was notified that proposed trenching activities were planned for the northern portion of the employee parking lot, outside of the silt fence, to install nighttime lighting during the first week of January 2012. Because the trench location will be sited within a previously undisturbed area, the BM surveyed the buffer area between the employee parking lot and the LECEF construction site for any biological issues. During the survey two small mammal burrows were observed near the drip line of an oak tree. Given that burrowing owls are historically known from the project vicinity, the BM extended the survey for wintering owls at the burrows for 3 hours (11a.m. to 2 p.m.). No wildlife was observed at the burrows.

On December 30th, BM Danielle Tannourji was on site to conduct a follow-up survey of the small mammal burrows observed on December 28th. During the 4-hour survey (1 p.m. to 5 p.m.), consistent with the observations made on December 28th, the BM did not observe any burrowing owls or other wildlife (for example, California ground squirrel) at the burrows. Therefore, the BM concluded that the burrows were unoccupied. The BM identified no biological issues during the work day. During this monitoring effort the LECEF project was in compliance with all biological resources COCs.

Appendix A
Cumulative Wildlife Species Observed In or Near
the Project Area

Cumulative Wildlife Species Observed in or Near the LECEF Project Area

Common Name	Scientific Name	Comments
BIRDS		
Great blue heron	<i>Ardea herodias</i>	Fly over
Great egret	<i>Ardea alba</i>	Fly over
Snowy egret	<i>Egretta thula</i>	Fly over
Turkey vulture	<i>Cathartes aura</i>	Fly over
Red-tailed hawk	<i>Buteo jamaicensis</i>	Fly over
Rock pigeon (<i>Exotic</i>)	<i>Sterna fosteri</i>	Facility and laydown area
Mourning dove	<i>Streptopelia decaocto</i>	Facility and laydown area
Barn owl	<i>Tyto alba</i>	Facility
Anna's hummingbird	<i>Chaetura vauxi</i>	Laydown area
Black phoebe	<i>Sayornis nigricans</i>	Facility and laydown area
California towhee	<i>Melospiza crissalis</i>	Facility and laydown area
Western scrub-jay	<i>Aphelocoma californica</i>	Facility and laydown area
American crow	<i>Corvus brachyrhynchos</i>	Facility and laydown area
Common raven	<i>Corvus corax</i>	Facility and laydown area
Tree swallow	<i>Tachycineta bicolor</i>	Facility and laydown area
Northern mockingbird	<i>Mimus polyglottos</i>	Facility and laydown area
European starling (<i>Exotic</i>)	<i>Sturnus vulgaris</i>	Facility and laydown area
Song sparrow	<i>Melospiza melodia</i>	Facility and laydown area
White-crowned sparrow	<i>Zonotrichia leucophrys</i>	Facility and laydown area
Red-winged blackbird	<i>Agelaius phoeniceus</i>	Facility and laydown area
Brewer's blackbird	<i>Euphagus cyanocephalus</i>	Facility and laydown area
Western Meadowlark	<i>Sturnella neglecta</i>	Facility and laydown area
House finch	<i>Carpodacus mexicanus</i>	Facility and laydown area
MAMMALS		
California vole	<i>Microtus californicus</i>	Facility and laydown area
Botta's pocket gopher	<i>Thomomys bottae</i>	Facility and laydown area

Appendix B

Representative Photographs



#1. A view of project site conditions at the southern portion of the LECEF site where the new cooling towers are being built. Photo was taken December 16, 2011.



#2. A view facing northeast at the existing LECEF site where construction activities continue. Photo was taken December 28, 2011.



#3. A view facing northwest of the new staging area along the north side of existing LECEF site where grading activities are ongoing. Photo was taken December 28, 2011.



#4. A view of the temporary dirt berm along the eastern border of existing LECEF site with tarp placed over it as required by the SWPPP. Photo was taken December 28, 2011.



#5. A view of one of the unoccupied burrows found along the buffer area between the LECEF construction site and the employee parking lot. Photo was taken December 28, 2011.

**CONDITION OF CERTIFICATION
BIO-4**

**Los Esteros Critical Energy Facility, Phase 2
Monthly Compliance Report #7
December 2011**

Number of persons who have received WEAP Training during the reporting period:

- 23
- Total to date = 381 (as of 12/30/11)

**CONDITION OF CERTIFICATION
CUL-2**

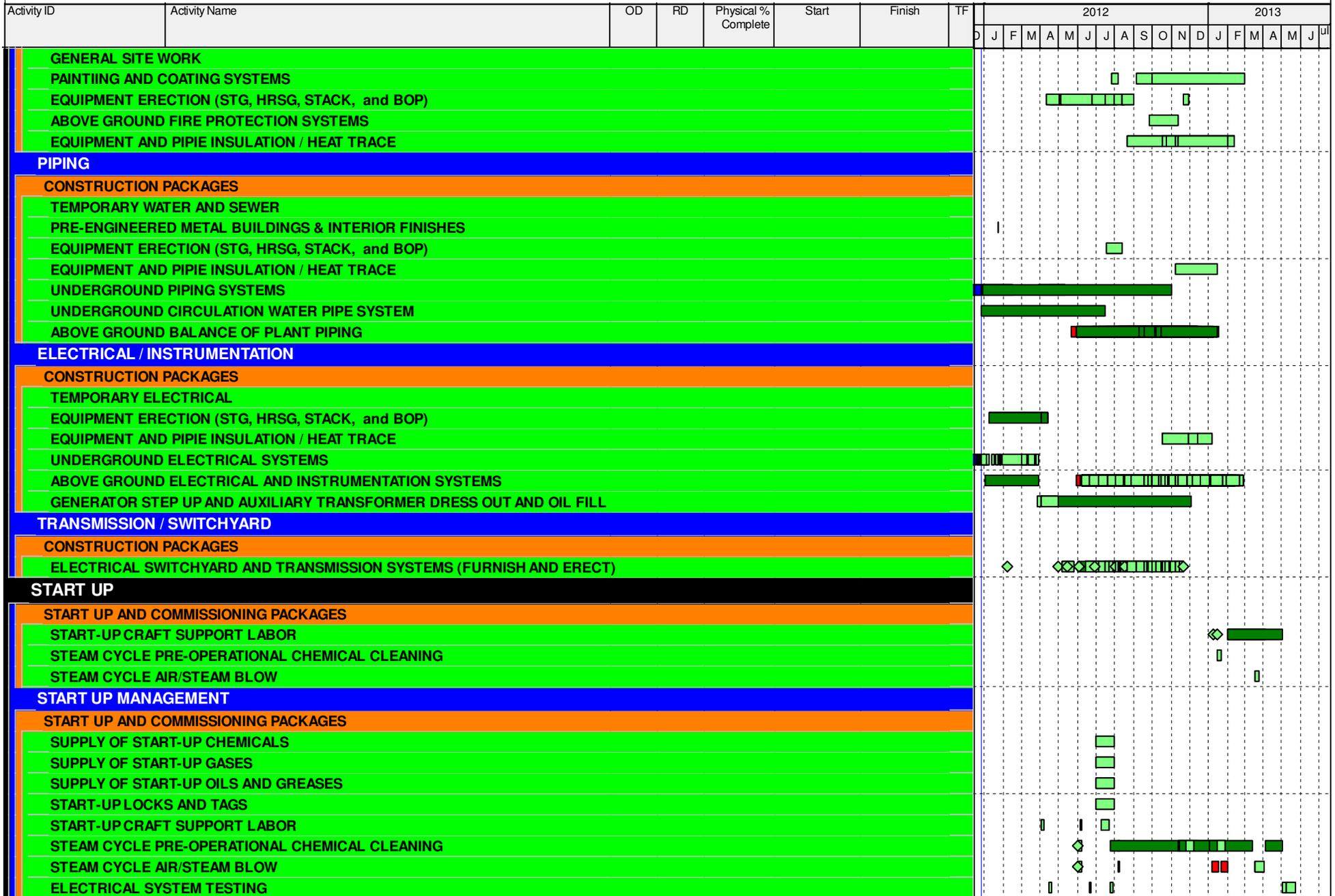
**Los Esteros Critical Energy Facility II, Phase 2
Monthly Compliance Report #7
December 2011**

Activity ID	Activity Name	OD	RD	Physical % Complete	Start	Finish	TF	2012												2013				
								D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
MILESTONES																								
CONTRACT MILESTONES																								
MILESTONES																								
MS0100	WVWA AUTHORIZED / NETWORK BEGIN	0	0	100%	17-Jan-11 A																			
MS0102	LIMITED NOTICE TO PROCEED	0	0	100%	03-Feb-11 A																			
MS1000	SCHEDULED FULL NOTICE TO PROCEED	0	0	100%	15-Mar-11 A																			
MS1096	MEANINGFUL CONSTRUCTION ACHIEVED	0	0	100%		23-Jun-11 A																		
MS1085	NAT GAS AVAILABLE BY OWNER	0	0	0%		29-Nov-12	73																	
MS1090G	GUARANTEED SUBSTANTIAL COMPLETION	0	0	0%		01-Jun-13*	0																	
MS1090D	SUBSTANTIAL COMPLETION - EXHIBIT D	0	0	0%		01-Jun-13*	0																	
PROJECT MILESTONES																								
MILESTONES																								
MS0500	ENGR RELEASE	0	0	100%	03-Feb-11 A																			
MS0104	MOBILIZE TO PROJECT SITE	0	0	100%	09-May-11 A																			
MS1010	START CONSTRUCTION	0	0	100%	09-May-11 A																			
MS1010A	START MEANINGFUL CONSTRUCTION	0	0	100%	23-May-11 A																			
MS1095B	MEANINGFUL CONSTRUCTION UG CW PIPING	0	0	100%		17-Jun-11 A																		
MS1095a	MEANINGFUL CONSTRUCTION COOLING TOWER	0	0	100%		23-Jun-11 A																		
CS0CTWR1005	COOLING TOWER FNDN COMPLETE	0	0	100%		07-Oct-11 A																		
CS0CTWR1020	COOLING TOWER ERECTION START	0	0	0%	26-Dec-11*		9																	
CS2RFF1	READY FOR RE-FIRE 3&2	0	0	0%		22-Jan-13	10																	
CS2RFF2	READY FOR RE-FIRE 4&1	0	0	0%		22-Jan-13	18																	
EP2106	STG INITIAL SYNC (First Roll)	0	0	0%		19-Mar-13	0																	
EP0090	TARGET SUBSTANTIAL COMPLETION	0	0	0%		01-May-13	0																	
MS9000	PROJECT DEMOBILIZATION	0	0	0%		15-Jul-13	0																	
CALPINE																								
CALPINE PROVIDED EQUIPMENT																								
LNTF APPENDIX SUBMITTALS / DELIVERABLES																								
CBO-California Building Reviews																								
ENGINEERING																								
CIVIL																								
DESIGN PACKAGES																								
CIVIL																								
ENGINEERING PACKAGES																								
GEOTECHNICAL INVESTIGATIONS, STUDIES, AND RECOMMENDATIONS																								

Remaining Level of Effort
 Remaining Work
 Actual Work
 Critical Remaining Work

Activity ID	Activity Name	OD	RD	Physical % Complete	Start	Finish	TF	2012												2013						
								D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
REINFORCING STEEL																										
EMBEDDED STEEL ITEMS																										
CONSTRUCTION PACKAGES																										
LEASING OF TEMPORARY OFFICE AND CRAFT FACILITIES (TRAILERS)																										
TEMPORARY ELECTRICAL																										
GENERAL SITE WORK																										
MAJOR AND MISC STRUCTURAL CONCRETE																										
PRE-ENGINEERED METAL BUILDINGS & INTERIOR FINISHES																										
PAINTING AND COATING SYSTEMS																										
EQUIPMENT ERECTION (STG, HRSG, STACK, and BOP)																										
ABOVE GROUND FIRE PROTECTION SYSTEMS																										
EQUIPMENT AND PIPE INSULATION / HEAT TRACE																										
UNDERGROUND PIPING SYSTEMS																										
UNDERGROUND CIRCULATION WATER PIPE SYSTEM																										
ABOVE GROUND BALANCE OF PLANT PIPING																										
UNDERGROUND ELECTRICAL SYSTEMS																										
ABOVE GROUND ELECTRICAL AND INSTRUMENTATION SYSTEMS																										
ELECTRICAL SWITCHYARD AND TRANSMISSION SYSTEMS (FURNISH AND ERECT)																										
GENERATOR STEP UP AND AUXILIARY TRANSFORMER DRESS OUT AND OIL FILL																										
CIVIL / STRUCTURAL / ARCHITECTURAL																										
CONSTRUCTION PACKAGES																										
LEASING OF TEMPORARY OFFICE AND CRAFT FACILITIES (TRAILERS)																										
CONSTRUCTION SURVEYING SUPPORT																										
HAZARDOUS SOILS TESTING SERVICES																										
HAZARDOUS SOILS EXCAVATION AND HANDLING																										
GENERAL SITE WORK																										
MAJOR AND MISC STRUCTURAL CONCRETE																										
PRE-ENGINEERED METAL BUILDINGS & INTERIOR FINISHES																										
EQUIPMENT ERECTION (STG, HRSG, STACK, and BOP)																										
ABOVE GROUND FIRE PROTECTION SYSTEMS																										
EQUIPMENT AND PIPE INSULATION / HEAT TRACE																										
UNDERGROUND PIPING SYSTEMS																										
ELECTRICAL SWITCHYARD AND TRANSMISSION SYSTEMS (FURNISH AND ERECT)																										
STG ERECTION																										
CONSTRUCTION PACKAGES																										
EQUIPMENT ERECTION (STG, HRSG, STACK, and BOP)																										
HRSG ERECTION																										
CONSTRUCTION PACKAGES																										
EQUIPMENT ERECTION (STG, HRSG, STACK, and BOP)																										
BOP MECHANICAL																										
CONSTRUCTION PACKAGES																										

Remaining Level of Effort
 Remaining Work
 Actual Work
 Critical Remaining Work



Remaining Level of Effort
 Remaining Work
 Actual Work
 Critical Remaining Work

Activity ID	Activity Name	OD	RD	Physical % Complete	Start	Finish	TF	2012												2013				
								D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
START UP AND COMMISSIONING PACKAGES																								
START-UP CRAFT SUPPORT LABOR																								
STEAM CYCLE PRE-OPERATIONAL CHEMICAL CLEANING																								
STEAM CYCLE AIR/STEAM BLOW																								
ELECTRICAL SYSTEM TESTING																								
QUALITY																								
CONSTRUCTION PACKAGES																								
PAINTIING AND COATING SYSTEMS																								
ABOVE GROUND FIRE PROTECTION SYSTEMS																								
EQUIPMENT AND PIPE INSULATION / HEAT TRACE																								
UNDERGROUND CIRCULATION WATER PIPE SYSTEM																								
ABOVE GROUND BALANCE OF PLANT PIPING																								
ABOVE GROUND ELECTRICAL AND INSTRUMENTATION SYSTEMS																								
ELECTRICAL SWITCHYARD AND TRANSMISSION SYSTEMS (FURNISH AND ERECT)																								
GENERATOR STEP UP AND AUXILIARY TRANSFORMER DRESS OUT AND OIL FILL																								
START UP AND COMMISSIONING PACKAGES																								
START-UP CRAFT SUPPORT LABOR																								
STEAM CYCLE PRE-OPERATIONAL CHEMICAL CLEANING																								
STEAM CYCLE AIR/STEAM BLOW																								
ELECTRICAL SYSTEM TESTING																								
SAFETY																								
CONSTRUCTION PACKAGES																								
PAINTIING AND COATING SYSTEMS																								
ABOVE GROUND FIRE PROTECTION SYSTEMS																								
EQUIPMENT AND PIPE INSULATION / HEAT TRACE																								
ABOVE GROUND BALANCE OF PLANT PIPING																								
ABOVE GROUND ELECTRICAL AND INSTRUMENTATION SYSTEMS																								
GENERATOR STEP UP AND AUXILIARY TRANSFORMER DRESS OUT AND OIL FILL																								
START UP AND COMMISSIONING PACKAGES																								
START-UP CRAFT SUPPORT LABOR																								
STEAM CYCLE PRE-OPERATIONAL CHEMICAL CLEANING																								
STEAM CYCLE AIR/STEAM BLOW																								
ELECTRICAL SYSTEM TESTING																								
CALPINE REVIEWS																								
CALPINE SUBCONTRACT REVIEWS																								
CONSTRUCTION PACKAGES																								
START UP AND COMMISSIONING PACKAGES																								
No 417531-13-DISCIPLINE																								
No 417531-13-PROC PKG																								
No 417531-13-AREA																								

Remaining Level of Effort
 Remaining Work
 Actual Work
 Critical Remaining Work

**CONDITION OF CERTIFICATION
CUL-4**

**Los Esteros Critical Energy Facility, Phase 2
Monthly Compliance Report #7
December 2011**

**CONDITION OF CERTIFICATION
CUL-5**

**Los Esteros Critical Energy Facility, Phase 2
Monthly Compliance Report #7
December 2011**

Monthly Report of Cultural Resources Monitoring Activities for the Los Esteros Critical Energy Facility Phase 2 for December 1, 2011 through December 31, 2011; COC CUL-6

Prepared For: Sarah Madams/SAC
Prepared By: Clint Helton/CRS
Reporting For Period: December 1 to December 31

This report covers cultural resources monitoring activities at the LECEF from December 1 through December 31, as requested by Rod Jones of Calpine, and as per Condition of Certification CUL-6.

Personnel Active in Cultural Monitoring This Period

Henry Davis participated as CRM for this month.

Monitoring and Associated Activities This Period

Monitoring of ground disturbance included continued excavation of the trench for an electrical duct bank, several hand potholing excavations, several vacuum machine potholing excavations to 5' south of HRSG units, two shallow (to 3 feet) foundation excavations north of HRSG units, and a deep (to 11 feet) excavation for blow down sumps between the HRSG units. Possible native sub-soils were encountered during some of these excavations. These sub-soils were usually at a depth of 3 to 4 feet from ground surface but were up to 8 to 10 feet in the area between the HRSG units. The soil is characterized as black silty clay overlaying light gray to yellow brown silty clays that may be intact depending on pre-fill topography. Weekly construction meetings were attended December 8, 15, 22, and 29.

Cultural Resources Discoveries This Period

No new cultural resources discoveries were made during this period.

Anticipated Changes in the Next Period

Excavation activities will continue inside the facility. The CRM will remain on site through January 2012 to continue monitoring and to respond to discoveries if they occur. CRM Dimitra Zalarvis-Chase will be filling in for CRM Henry Davis from January 7-22, 2012.

Comments, Issues or Concerns

None.

**CONDITION OF CERTIFICATION
PAL-4**

**Los Esteros Critical Energy Facility, Phase 2
Monthly Compliance Report #7
December 2011**

Report of Paleontological Resources Compliance Activities for Los Esteros Critical Energy Facility Phase 2- December 2011 (COC PAL-4)

Prepared For: Sarah Madams/SAC
Prepared By: Geof Spaulding, PRS/LAS
Date: January 3, 2012

This report covers paleontological resources compliance activities at the LECEF for the period noted above, as required by Conditions of Certification PAL-4.

Training Conducted This Month

Construction personnel continue to receive the CEC approved Paleontological Resources Awareness Module of the Worker Environmental Awareness Program (WEAP) prior to working on this project (COC PAL-3).

Personnel On-Call for Paleontological Monitoring This Period

Jaspal Saini, Paleontological Resources Monitor (PRM)
Dr. Geof Spaulding, Project Paleontological Resources Specialist (PRS)

Monitoring and Associated Activities This Period

The Supplement and Amendment to the PRMMP for the Los Esteros Critical Energy Facility (May 2011) provides an updated paleontological sensitivity assessment of the project area, subsequent to the monitoring activities and additional paleontological studies that accompanied Phase 1. It concludes that no additional monitoring for paleontological resources is warranted for this project.

As a result of the low paleontological resources sensitivity of the project site, no paleontological resources monitoring has been conducted. The paleontological resources awareness module of WEAP will continue to be administered to all construction personnel before starting work at the site.

Anticipated Changes in the Next Period

No changes are anticipated at this time.

Comments, Issues or Concerns

None.

**CONDITION OF CERTIFICATION
SOCIO-1**

**Los Esteros Critical Energy Facility, Phase 2
Monthly Compliance Report #7
December 2011**

December 2, 2011

ACTIVITIES REPORT FOR SOCIO -1

Work contracted to date utilizing Labor from the Bay Area:

- **M.J. Electric** Underground Duct Bank
- **TELECOM/McClure Electric** Trailer City electrical and communication installation
- **MISSION CITY REBAR INC** Reinforcing Steel
- **Modular Space Corporation** Leasing Of Temporary Office And Craft Trailers
- **HOMESITE SERVICES INC** Leasing of Construction Waste Dumpsters
- **HANSON & FITCH INC** Leasing of Temporary Toilets and Hand Wash Stations
- **KIER & WRIGHT CIVIL ENGINEERS AND SURVEYORS, INC.** Construction Survey
- **TRC ENGINEERS INC** Construction Materials Inspections and Testing
- **JAN PRO COMMERCIAL CLEANING** Temporary Facilities (Trailers) Cleaning
- **TRC ENGINEERS INC.** Hazardous Soils Testing
- **Central Concrete Supply** Ready Mix Concrete
- **C. Overaa & Co.** General Site Grading and Foundations
- **F-3** Surveyor
- **CASEY-FOGLI** Cement Finishing
- **CF&T** Concrete Pumping
- **DURAN & VENABLES** for all the excavating, backfilling
- **Harder Mechanical** Underground Pipe Installation
- **Hanson CW Pipe** Mfg'd in Illinois because only supplier that could make Project Schedule delivery dates on site.

- **To Be Awarded** HRSG Demolition

No additional awards are currently forecasted

**CONDITION OF CERTIFICATION
TRANS-4**

**Los Esteros Critical Energy Facility, Phase 2
Monthly Compliance Report #7
December 2011**

Work Done to Support TRANS-4:

- Craft parking lot completed in late June allowing construction workers to access the project from the 13-acre lay down area
- Construction workers are using McCarthy Road/Ranch Drive intersection to travel to and from the project site
- Gravel roadway placed to support construction worker vehicle traffic entering the project site
- K-rails installed to protect workers walking from the parking area to the project site
- Construction signage erected on Thomas Foon Chew Way
- Safety & SWPPP fencing installed at entrance gate and along gravel roadway near Highway 237 Bikeway path
- Handicap parking space signs and project site plan sign (in progress, but not part of COC)
- Temporary lighting placed in craft parking lot until long-term electrical lighting plan is approved by CBO
- Lights to be installed in December below K-rails to illuminate walk path leading to construction entrance

These documents were submitted during this report period.

- December 1: GEN-2, CBO-051 Electrical Specifications: Three new specs sent to the CBO.
- December 1: GEN-2, CBO-051 Mechanical Specifications: One revised spec sent to the CBO.
- December 1: STRUC-1, CBO-205 Cooling Tower Depot: Three DCN-001 sheets sent to the CBO.
- December 2: STRUC-1, CBO-250 Pipe Rack Steel: 8 documents (calculations and drawings) sent to the CBO.
- December 2: MECH-1, CBO-302 P&ID's: 17 new and revised drawings sent to the CBO.
- December 5: ELEC-1, CBO-451 UG Duct Banks: Two revised drawings sent to the CBO.
- December 5: ELEC-1, CBO-401 Grounding & Grounding Plans: 16 new and revised drawings sent to the CBO.
- December 6: STRUC-1, CBO-217 Misc. Foundations: Sent revised drawing and calculation to the CBO.
- December 12: GEN-2, CBO-051 Mechanical Specifications: One revised calc sent to the CBO.
- December 13: STRUC-1, CBO-221 SCR Moment Frame Analysis: One calculation sent to the CBO.
- December 14: CIVIL-1, CBO-105 Shield Shoring Design Calculations: One calculation sent to the CBO.
- December 15: GEN-2, CBO-051 Electrical Specifications: Two specs sent to the CBO.
- December 16: GEN-2, CBO-051 Electrical Specifications: One spec sent to the CBO.
- December 16: MECH-1, CBO-311 Piping Items: One drawing sent to the CBO.
- December 16: GEN-2, CBO-051 Electrical Specifications: Two specs sent to the CBO.
- December 16: ELEC-1, CBO-451 UG Duct Banks: Two revised drawings sent to the CBO.
- December 16: STRUC-1, CBO-214 GSU Foundation Design, Drawing and Calculation: One revised drawing sent to the CBO.
- December 16: STRUC-1, CBO-222 Condensate Pump Foundation and Containment Pit: One calculation and one drawing sent to the CBO.
- December 19: MECH-1, CBO-302 P&ID's: 21 revised drawings sent to the CBO.
- December 20: STRUC-1, CBO-219 HRSG Blowdown Pit and Sump Foundation and Design: DCN-022 sent to the CBO.
- December 20: MECH-1, CBO-304 UG Piping: 29 new and revised drawings sent to the CBO.
- December 20: STRUC-1, CBO-219 HRSG Blowdown Pit and Sump Foundation and Design: DCN-021 sent to the CBO.
- December 20: STRUC-1, CBO-800 Warehouse: Office/warehouse building code analysis sent to the CBO.
- December 20: TSE-1, CBO-500 Master Document List: MDL and letter sent to the CBO.

- December 20: ELEC-1, CBO-401 Grounding & Grounding Plans: Four revised drawings sent to the CBO.
- December 21: GEN-2, CBO-051 Mechanical Specifications: #405500 and disposition sent to the CBO.
- December 21: GEN-2, CBO-051 Mechanical Specifications: #405505 sent to the CBO.
- December 21: STRUC-1, CBO-203 STG Foundation & Calculation: DCN-023 sent to the CBO.
- December 22: ELEC-, CBO-950 Construction Lighting and Power: Two drawings sent to the CBO.
- December 22: STRUC-1, CBO-903 Temporary Tents – Big Top Tents: 21 documents sent to the CBO.
- December 23: MECH-1, CBO-304 UG Piping: 86 new and revised drawings sent to the CBO.
- December 27: GEN-2, CBO-051 Electrical Specifications: Two specifications sent to the CBO.
- December 27: STRUC-1, CB-221 SCR Moment Frame Analysis: One document sent to the CBO.

These documents were received during this report period.

- December 1: STRUC-1, CBO-203 STG Foundation & Calculations: Information Accepted for Record disposition received for observation reports.
- December 1: STRUC-1, CBO-210 Concrete Mix Design: Information Accepted for Record disposition received for mix design 3FEG9C2.
- December 1: MECH-1, CB-304 UG Piping: Approved with note disposition received for LE-GEN-DE-P9-001 Sht 1 Rev 3.
- December 1: STRUC-1, CBO-217 Misc. Foundations: Revise and resubmit disposition received for LE-GEN-DE-S5-0290 Sht 2 Rev 1.
- December 1: MECH-1, CBO-304 UG Piping: Revise and resubmit disposition received for LE-GEN-DE-P4-0070 Sht 1.
- December 1: MECH-1, CBO-302 P&ID's: Approved with notes disposition received.
- December 2: STRUC-1, CBO-800 Warehouse: Review stopped disposition received.
- December 6: STRUC-1, CBO-216 Oil Water Separator/Cooling Water Heat Exchanger Foundation Designs: Approved disposition received for DCN-011.
- December 6: GEN-6, CBO-052 Special Inspectors: Approved disposition received for David Knight.
- December 7: MECH-1, CBO-304 UG Piping: Approved disposition received for DCN-020.
- December 13: STRUC-1, CBO-205 Cooling Tower Depot: Approved disposition received.
- December 13: ELEC-1, CBO-401 Grounding and Grounding Plans: Approved disposition received.
- December 13: ELEC-1, CBO-451 UG Duct Banks: Approved disposition received.
- December 13: STRUC-1, CBO-217 Misc. Foundations: Approved with note disposition received for cooling water heat exchanger only.

- December 13: STRUC-1, CBO-217 Misc. Foundations: Approved with note disposition received for water treatment expansion only.
- December 13: MECH-1, CBO-302 P&ID's: Approved with notes disposition received.
- December 14: GEN-2, CBO-051 Mechanical Specifications: Approved disposition received for #406011 R1 Safety Shower & Eye Wash Stations.
- December 14: GEN-2, CBO-051 Mechanical Specifications: Approved with note disposition received for #485868 R1 Welding of Power Plant Piping.
- December 14: GEN-2, CBO-051 Mechanical Specifications: Approved disposition received for #405720 R0 Power Plant Piping Engineered Supports.
- December 14: GEN-2, CBO-051 Mechanical Specifications: Approved disposition received for #405000 R0 Power Plant Piping Materials.
- December 14: STRUC-1, CBO-205 Cooling Tower Depot: Approved disposition received for DCN-CTD-001 A-120 Sht 1 R5, Sht 2 R5, Sht 3 R3 Basin Arrangement.
- December 14: ELEC-1, CBO-402 Lighting Plans, Notes and Details: Information only disposition received for LE-GEN-DE-E9-9001 Sht 1.
- December 14: ELEC-1, CBO-902 Temporary Trailer Utilities: Approved disposition received for LE-GEN-SE-E9-0001, 0002, 0004.
- December 14: STRUC-1, CBO-218 Fuel Gas Compressor Foundation & Design: Response required disposition received.
- December 14: STRUC-1, CBO-221 HRSG/SCR Moment Frame Design Basis: Approved disposition received.
- December 16: ELEC-1, CBO-451 UG Duct Banks: Approved disposition received for LE-GEN-DE-E5-2101 and 2106.
- December 20: STRUC-1, CBO-219 HRSG Blowdown Pit and Sump Foundation & Design: Approved disposition received for DCN-021.
- December 20: STRUC-1, CBO-219 HRSG Blowdown Pit and Sump Foundation & Design: Approved disposition received for DCN-022.
- December 20: MECH-1, CBO-302 P&ID's: Revised approved with notes disposition received.
- December 20: STRUC-1, CBO-219 HRSG Blowdown Pit and Sump Foundation & Design: Response required disposition received.
- December 21: GEN-2, CBO-051 Electrical Specifications: Approved disposition received for #220000 R0 Pre-Engineered Building Plumbing.
- December 21: STRUC-1, CBO-216 Oil Water Separator: Revised approved disposition received.
- December 21: GEN-2, CBO-051 Structural Specifications: Approved disposition received for #230000 R0 Pre-Engineered Building HVAC.
- December 21: STRUC-1, CBO-214 GSU: Approved disposition received for LE-GSU-DE-S5-0240 Sht 1 R2.
- December 22: STRUC-1, CBO-203 STG Foundation & Calculation: Approved disposition received for DCN-023.

PENDING
IN REVIEW
COMPLETE
Monthly Submittal
When required

CONDITION	NO.	Sort Code	CBO	PERIODIC REPORTS	Description of Project Owner Responsibilities (Conditions of Certification)	Verification/Action/Submittal Required by Project Owner	Timeframe / Trigger	Days	Lead Respons. Party
AIR QUALITY									
AQ	SC1	PC			Air Quality Construction Mitigation Manager (AOCMM). The project owner shall designate and retain an on-site AOCMM who shall be responsible for directing and documenting compliance with conditions AQ-SC3, AQ-SC4 and AQ-SC5 for the entire project site and linear facility construction. The AOCMM shall not be terminated without written consent from the CPM.	At least 60 days prior to the start of ground disturbance, the project owner shall submit to the CPM for approval, the name, resume, qualifications, and contact information for the on-site AOCMM and all AOCMM Delegates.	Prior to the start of ground disturbance	60	LGC
AQ	SC3	CONS		MCR	The AOCMM shall submit documentation to the CPM in each Monthly Compliance Report (MCR) that demonstrates compliance with the mitigation measures listed in AQ-SC3 for the purposes of preventing all fugitive dust plumes from leaving the Project. Deviation from the listed mitigation measures requires prior CPM notification and approval.	The project owner shall include in the MCR (1) a summary of all actions taken to maintain compliance with this condition, (2) copies of any complaints filed with the air district in relation to project construction, and (3) any other documentation deemed necessary by the CPM and AOCMM to verify compliance with this condition.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
AQ	SC4	CONS			The AOCMM or an AOCMM Delegate shall monitor all construction activities for visible dust plumes. Observations of visible dust plumes that have the potential to be transported (1) off the project site or (2) 200 feet beyond the centerline of the construction of linear facilities or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner indicate that existing mitigation measures are not resulting in effective mitigation. If visible dust plumes are observed, the AOCMM or delegate shall implement the procedures outlined in AQ-SC4.	The AOCMM shall include a section detailing how the additional mitigation measures will be accomplished within the time limits specified.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
AQ	SC5	CONS		MCR	The AOCMM shall submit to the CPM, in the MCR, a construction mitigation report that demonstrates compliance with the mitigation measures listed in AQ-SC5 for the purposes of controlling diesel construction-related emissions. Deviation from the listed mitigation measures shall require prior CPM notification and approval.	The project owner shall include in the MCR (1) a summary of all actions taken to maintain compliance with this condition, (2) copies of all diesel fuel purchase records, (3) 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 (4) any other documentation deemed necessary by the CPM and AOCMM to verify compliance with this condition.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
AQ	1	PRE-OP		Commissioning Emissions Report	The owner/operator of the LECEF shall minimize the emissions of carbon monoxide and nitrogen oxides from S-1, S-2, S-3 and S-4 Gas Turbines and S-7, S-8, S-9, and S-10 HRSG to the maximum extent possible during the commissioning period.	The project owner/operator shall specifically demonstrate compliance with this Condition of Certification as part of the Commissioning Plan and Monthly Commissioning Emissions Reports required by AQ-5 and AQ-10 respectively.	Dec-12		LGC
AQ	2	PRE-OP		Commissioning Emissions Report	At the earliest feasible opportunity in accordance with the recommendations of the equipment manufacturers and the construction contractor, the owner/operator shall tune the S-1, S-2, S-3 and S-4 Gas Turbine combustors to minimize the emissions of carbon monoxide and nitrogen oxides.	The project owner/operator shall specifically demonstrate compliance with this Condition of Certification as part of the Commissioning Plan and Monthly Commissioning Emissions Reports required by AQ-5 and AQ-10 respectively.	Dec-12		LGC
AQ	3	PRE-OP		Commissioning Emissions Report	At the earliest feasible opportunity and in accordance with the recommendations of the equipment manufacturers and the construction contractor, the owner/operator shall install, adjust and operate the SCR Systems (A-10, A-12, A-14 & A-16) and OC Systems (A-9, A-11, A-13 & A-15) to minimize the emissions of NOx and CO from S-1, S-2, S-3 and S-4 Gas Turbines and S-7, S-8, S-9, and S-10 HRSG.	The project owner/operator shall specifically demonstrate compliance with this Condition of Certification as part of the Commissioning Plan and Monthly Commissioning Emissions Reports required by AQ-5 and AQ-10 respectively.	Dec-12		LGC
AQ	4	PRE-OP		Commissioning Emissions Report	Coincident with the steady-state operation of SCR Systems (A-10, A-12, A-14 & A-16) and OC Systems (A-9, A-11, A-13 & A-15) pursuant to AQ-3, the owner/operator shall operate the facility in such a manner that the Gas Turbines (S-1, S-2, S-3 and S-4) comply with the NOx and CO emission limitations specified in AQ-19a and AQ-19c.	The project owner/operator shall specifically demonstrate compliance with this Condition of Certification as part of the Commissioning Plan and Monthly Commissioning Emissions Reports required by AQ-5 and AQ-10 respectively.	Dec-12		LGC
AQ	5	PRE-OP			The owner/operator of the Los Esteros Critical Energy Facility shall submit a plan to the District Permit Services Division at least two weeks prior to first firing of S-1, S-2, S-3 & S-4 Gas Turbines and/or S-7, S-8, S-9, & S-10 HRSGs describing the procedures to be followed during the commissioning of the turbines in the combined-cycle configuration.	The project owner/operator shall submit a Commissioning Plan to the District Permit Services Division and the CPM for approval at least two weeks prior to first fire of S-1, S-2, S-3 and S-4.	Dec-12	14	LGC
AQ	6	PRE-OP		Commissioning Emissions Report	During the commissioning period, the owner/operator of the LECEF shall demonstrate compliance with AQ-8 through AQ-10 through the use of properly operated and maintained continuous emission monitors and data recorders for the parameters listed in AQ-6, as amended.	The project owner/operator shall specifically demonstrate compliance with this Condition of Certification as part of the Commissioning Plan and Monthly Commissioning Emissions Reports required by AQ-5 and AQ-10 respectively.	Dec-12		LGC

AQ	7	PRE-OP			The owner/operator shall install, calibrate and make operational the District-approved continuous monitors specified in AQ-6, as amended, prior to first firing of each turbine (S-1, S-2, S-3 and S-4 Gas Turbines) and HRSG (S-7, S-8, S-9, and S-10 Heat Recovery Steam Generators).	The project owner/operator shall notify the District and CPM of the date of expected first fire at least 30 days prior to first fire and shall make the project site available for inspection if desired by either the District or CPM.	Dec-12	30	LGC
AQ	8	PRE-OP			The owner/operator shall not operate the facility such that the number of firing hours of S-1, S-2, S-3 and S-4 Gas Turbines and/or S-7, S-8, S-9, and S-10 HRSG without abatement by SCR or OC systems exceed 250 hours for each power train during the commissioning period. Such operation of the S-1, S-2, S-3 and S-4 Gas Turbines without abatement shall be limited to discrete commissioning activities that can only be properly executed without the SCR or OC system in place.	The owner/operator shall provide written notice to the CPM and the District Permit Services & Enforcement Divisions within five business days of completion of all commissioning activities, at which time the unused balance of the 250 firing hours without abatement shall expire.	After completion of all commissioning activities	5	LGC
AQ	9	PRE-OP		Commissioning Emissions Report	The total mass emissions of nitrogen oxides, carbon monoxide, precursor organic compounds, PM10, and sulfur dioxide that are emitted by the S-1, S-2, S-3 and S-4 Gas Turbines and S-7, S-8, S-9, and S-10 HRSG during the commissioning period shall accrue towards the consecutive twelve-month emission limitations specified in AQ-22.	The project owner/operator shall specifically demonstrate compliance with this Condition of Certification as part of each Monthly Commissioning Emissions Report required by AQ-10 and as part of the first Quarterly Operations Report required by AQ-34 after the completion of commissioning	Dec-12		LGC
AQ	10	PRE-OP		Commissioning Emissions Report	The owner/operator shall not operate the facility such that the pollutant mass emissions from each turbine (S-1, S-2, S-3, and S-4 Gas Turbines) and corresponding HRSG (S-7, S-8, S-9, and S-10 Heat Recovery Steam Generators) exceed the limits during the commissioning period listed in AQ-10 as amended.	The project owner/operator shall submit to the CPM for approval, a Monthly Commissioning Emissions Report that includes fuel use, turbine operation, post combustion control operation, ammonia use and CEM readings on an hourly and daily basis	Dec-12		LGC
AQ	11	PRE-OP			Within sixty (60) days of startup, the owner/operator shall conduct a District approved source test using external continuous emission monitors to determine compliance with AQ-10.	The project owner/operator shall submit the source test plan and results as required in the time frames indicated in this Condition of Certification.	Dec-12	60	LGC
AQ	11	PRE-OP			Thirty (30) days before the execution of the source tests, the owner/operator shall submit to the District a detailed source test plan designed to satisfy the requirements of AQ-11. The owner/operator shall be notified of any necessary modifications to the plan within twenty (20) working days of receipt of the plan; otherwise the plan shall be deemed approved. District comments shall be incorporated into the test plan.		Dec-12	30	LGC
AQ	11	PRE-OP			The owner/operator shall notify the District within ten (10) days prior to the planned source testing date.		Dec-12	10	LGC
AQ	11	PRE-OP			Source test results shall be submitted to the District within sixty (60) days of the source testing date.		Dec-12	60	LGC
AQ	26	OP			Within ninety (90) days of the startup of the gas turbines and HRSGs , and at a minimum on an annual basis thereafter, the owner/operator shall perform a RATA on the CEMS in accordance with 40 CFR Part 60 Appendix B Performance Specifications and a source test shall be performed.		After startup of the gas turbines and HRSGs	90	LGC
AQ	26	OP			A complete test protocol shall be submitted to the District no later than 30 days prior to testing.	At least 30 days prior to the date of each source test, the owner/operator shall submit a source test protocol to the District and the CPM for approval.	Prior to the date of each source test	30	LGC
AQ	26	OP			Notification to the District at least ten days prior to the actual date of testing shall be provided so that a District observer may be present.	At least 10 days prior to the testing date, the owner/operator shall notify the District and the CPM of the date of the date of the source test.	Prior to the testing date	10	LGC
AQ	26	OP			The written test results of the source tests shall be provided to the District within thirty days after testing.	No more than 30 days after the date of the source test, the owner/operator shall submit the results of the RATA and source test to the District and the CPM for approval.	After to the testing date	30	LGC
AQ	27	OP		AQ-34	Within 60 days of start-up of the LECEF in combined-cycle configuration and on a semi-annual basis thereafter, the owner/operator shall conduct a District approved source test on exhaust points P-1, P-2, P-3, and P-4 while each Gas Turbine/HRSG power train is operating at maximum load to demonstrate compliance with the SAM emission limit specified in AQ-23. The owner/operator shall test for (as a minimum) SO ₂ , SO ₃ , and SAM.	The project owner/operator shall verify compliance with this Condition of Certification in each quarterly report required by Condition of Certification AQ-34.	After startup of the gas turbines and HRSGs	60	LGC
AQ	28	PRE-OP			The owner/operator shall prepare a written quality assurance program must be established in accordance with 40 CFR Part 75, Appendix B and 40 CFR Part 60 Appendix F.	The owner/operators shall make access available to the facility and records upon request as set forth in Condition of Certification AQ-15.	Dec-12		LGC
AQ	45	PRE-OP			Within 60 days of startup of the Los Esteros Critical Energy Facility and on a biennial (once every two years) thereafter, the owner/operator shall conduct a District-approved source test at exhaust point P-1, P-2, P-3, or P-4 while the Gas Turbines are at maximum allowable operating rates to demonstrate compliance with AQ-44.	At least 20 days prior to the intended source test date, the owner/operator shall submit a source testing methodology to the District and CPM for review and approval.	Prior to the intended source test date	20	LGC

BIOLOGICAL RESOURCES

BIO	4	CONS		MCR		The project owner shall state in the Monthly Compliance Report the number of persons who have completed the training in the prior month and a running total of all persons who have completed the training to date.			LGC
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BIO	13	CONS			The project owner will acquire a City of San Jose permit to remove any remaining ordinance trees from the simple-cycle facility site.	The terms and conditions of the City of San Jose permit(s) will be incorporated into the project's BRMMMP and submitted at least 90 days prior to removal of any remaining ordinance trees	prior to removal of any remaining ordinance trees	90	LGC
CULTURAL RESOURCES									
CUL	2	PC			Prior to the start of ground disturbance, the project owner shall provide the CRS and the CPM with maps and drawings showing the footprint of the power plant and all linear facilities.	At least forty days prior to the start of ground disturbance, the project owner shall provide the designated cultural resources specialist and the CPM with the maps and drawings.	Prior to the start of ground disturbance	40	LGC
CUL	2	PC			If construction of this project will proceed in phases, maps and drawings may be submitted in phases. A letter identifying the proposed schedule of each project phase shall be provided to the CPM and the CRS.	If this is to be a phased project, a letter identifying the proposed schedule of the ground disturbance or construction phases of the project shall also be submitted.			LGC
CUL	2	CONS			Prior to implementation of additional phases of the project, current maps and drawings shall be submitted to the CPM and the CRS.	At least 30 days prior to the start of ground disturbance on each phase of the project, following initial ground disturbance, copies of maps and drawings reflecting additional phases of the project, shall be provided to the CPM for review and approval.	Prior to the start of ground disturbance on each phase of the project	30	LGC
CUL	2	CONS		MCR	At a minimum, the CRS shall consult weekly with the project superintendent or construction field manager to confirm area(s) to be worked during the next week, until ground disturbance is completed. A current schedule of anticipated project activity shall be provided to the CRS on a weekly basis during ground disturbance and provided to the CPM in each Monthly Compliance Report (MCR).				LGC
CUL	2	CONS				If there are changes to the scheduling of the construction phases of the project, a letter shall be submitted to the CPM within 5 days of identifying the changes.	After identifying the changes	5	LGC
CUL	4	PC		MCR	Workers shall sign an acknowledgement form that they have received training and a sticker shall be placed on hard hats indicating that environmental training has been completed.	Copies of acknowledgement forms signed by trainees shall be provided in the MCR.			LGC
FACILITY DESIGN									
GEN									
GEN	1	PRE-OP	X		The project owner shall design, construct and inspect the project in accordance with the 2001 CBSC which and all other applicable engineering LORS in effect at the time initial design plans are submitted to the CBO for review and approval.	Within 30 days after receipt of the Certificate of Occupancy, the project owner shall submit to 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.	After receipt of Certificate of Occupancy	30	LGC
GEN	1	PRE-OP				The project owner shall provide the CPM a copy of the Certificate of Occupancy within 30 days of receipt from the CBO.	After receipt of Certificate of Occupancy	30	LGC
GEN	2	PC	X		Prior to submittal of the initial engineering designs for CBO review, the project owner shall furnish to the CPM and to the CBO a preliminary schedule of facility design submittals, a Master Drawing List, and a Master Specifications List.	At least 30 days prior to the start of rough grading, the project owner shall submit to the CBO and to the CPM the preliminary schedule, the Master Drawing List, and the Master Specifications List of documents for major structures and equipment (see GEN-2, Table 1) to be submitted to the CBO for review and approval.	Prior to the start of rough grading	30	LGC
GEN	2	CONS		004	Construction QA/QC Manual		To The CBO on 8/12/11. Disposition received 9/13/11, response required. Revised doc sent to the CBO in 9/22/11. Disposition received 9/28/11, approved with comment		LGC
GEN	2	CONS		051	Civil Specification		Conditionally approved disposition received 8/24/11 for protective paint & coatings. 312000 Earthwork revised spec and disposition sent to the CBO on 9/19/11. Approved disposition received 9/28/11. Approved disposition received 10/19/11. Approved disposition received 10/25/11 for cast-in-place. Response required disposition received 11/2/11 for 312333		LGC

GEN	2	CONS	051	Structural Specification		To CBO on 6/20. New spec. sent 7/6/11 and 7/9/11. 4 new specs sent 7/13/11. 3 revised specs sent 7/21/11. 2 revised specs sent 7/29/11. Revised spec and disposition response sent to the CBO on 8/25/11. Sent revised cast-in-place spec to the CBO on 9/6/11 and 9/20/11. Disposition received 9/21/11, approved. Cast-in-Place spec sent to the CBO on 10/7/11. Approved disposition received 11/16/11 for 051000 and 013610		LGC
GEN	2	CONS	51	Mechanical Specification		Conditional approval 8/16/11. New spec sent to the CBO on 9/2/11. Approved disposition received 9/21/11. One document sent to the CBO on 9/30/11. Two specs approved 10/19/11. Approved 264200 on 11/4/11. One spec sent to the CBO on 11/16/11		LGC
GEN	2	CONS	51	Welding Procedure Specifications		Conditional approval 8/16/11		LGC
GEN	2	CONS	51	Architectural Specifications		To the CBO on 7/22/11. Approved with note disposition received 11/8/11 for 102800, 101400, 099010, 096816, 096500. Response required disposition received 11/9/11 for 081400. Approved with note received 11/9/11 for 092116, 092216, 095123		LGC
GEN	2	CONS	51	Electrical Specifications		To the CBO on 9/2/11. Disposition received 9/8/11, response required. Approved disposition with note received 11/2/11 for 337119.13. Approved disposition received 11/2/11 for 260000. Approved disposition received 11/2/11 for 260533.01. Sent revised 337119.13 and disposition response to the CBO on 11/3/11. 260000 General Provisions comments sent to the CBO on 11/28/11		LGC
GEN	2	CONS	050	Calpine Vendor Master Document List	CH2M HILL approved disposition received 8/2/11	Approved disposition received 7/7/11		LGC
GEN	2	CONS	1200	SMP Sampling Plan		Disposition received 8/1/11, information only		LGC
GEN	4	PC	X	The project owner shall assign a California registered architect, structural engineer or civil engineer, as a Resident Engineer (RE), to be in general responsible charge of the project.	At least 30 days (or project owner and CBO approved alternative timeframe) prior to the start of rough grading, the project owner shall submit to the CBO for review and approval, the name, qualifications and registration number of the RE and any other delegated engineers assigned to the project.	Prior to the start of rough grading	30	LGC
GEN	4	CONS	1	Resident Engineer		CBO approved 6/30/11. Resume and letter sent to the CBO on 8/25/11. Approved disposition received 8/31/11. Sent Douglas Brown resume to the CBO on 9/21/11. Approved disposition received 9/28/11		LGC
GEN	4	CONS			If the RE or delegated engineer(s) are 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.	After reassignment or replacement	5	LGC
GEN	5		2	Responsible Engineers CA PE's		To the CBO on 9/26/11 and 9/29/11. Conditionally approved 10/18/11		LGC

GEN	5	PC	X		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) a civil engineer; B) a soils engineer or a geotechnical engineer or a civil engineer experienced and knowledgeable in the practice of soils engineering; C) an engineering geologist.	At least 30 days (or project owner and CBO approved alternative timeframe) 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 geologists assigned to the project.	Prior to the start of rough grading	30	LGC
GEN	5	PC	X		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: D) 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; E) a mechanical engineer; and F) an electrical engineer.	At least 30 days (or project owner and CBO approved alternative timeframe) 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.	Prior to the start of construction	30	LGC
GEN	5	CONS				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.	After reassignment or replacement	5	LGC
GEN	6	CONS	X		Prior to the start of an activity requiring special inspection, the project owner shall assign to the project, qualified and certified special inspector(s) who shall be responsible for the special inspections required by the 2001 CBC, Chapter 17 [Section 1701, Special Inspections: Section, 1701.5 Type of Work (requiring special inspection)]; and Section 106.3.5, Inspection and observation program. Weld inspectors shall be certified by the American Welding Society and/or the American Society of Mechanical Engineers	At least 15 days (or project owner and CBO approved alternative timeframe) 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 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 set forth above.	Prior to start of activity requiring special inspection	15	LGC
GEN	6	CONS				If the special inspector 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.	After reassignment or replacement	5	LGC
GEN	6	CONS		052	Special Inspector	Matrix and resumes for Alberto Cortez, Staff Engineer; Arthur R. Williams, Assistant Construction Services Manager; Jimmie Miller, Special Inspector; Gary Klopson, Special Inspector; John Oliveira, Field Supervisor; Gabriel Velasquez, Senior Field Supervisory Technician. Certs for Akins, Klopson, Mossman, Tyler Deeds, revised matrix	Approved 8/16/11		LGC
GEN	6	CONS		52	Special Inspector	Sean Fuller	To the CBO on 7/28/11. Approved disposition received 9/7/11		LGC
GEN	6	CONS		52	Special Inspector	Cesar Ramirez, Dennis Haney, Howard Chippero, Jeffrey Flint, Kenny Dominguez, Michael Bell, Robert Bigford	To the CBO on 8/1/11, approved		LGC
GEN	6	CONS		52	Special Inspector	Denise Corkill, updated matrix	To the CBO on 9/22/11. Approved disposition received 9/28/11		LGC
GEN	6	CONS		52	Special Inspector	Mark Hopkins, updated matrix. Updated matrix to include Sean Fuller. David Knight and updated matrix	To the CBO on 10/19/11 and 10/20/11. Approved disposition received 10/25/11 for Mark Hopkins. Sent David Knight documents and updated matrix to the CBO on 11/9/11. Response required disposition received 11/9/11		LGC
GEN	7	CONS	X	MCR	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 the corrective action required. The discrepancy documentation shall be submitted to the CBO for review and approval.	The project owner shall transmit a copy of the CBO's approval of any corrective action taken to resolve a discrepancy to the CPM in the next Monthly Compliance Report.	Design Discrepancy Identified		LGC
GEN	7	CONS				If any corrective action is disapproved, the project owner shall advise the CPM, within five days, the reason for disapproval and the revised corrective action to obtain CBO's approval.	After receipt of disapproval	5	LGC
GEN	8	CONS	X	MCR	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 the CPM after obtaining the CBO's final approval.	Within 15 days of the completion of any work, the project owner shall submit to the CBO, with a copy to 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 completion of work	15	LGC

GEN	8	CONS				After storing final approved engineering plans, specifications and calculations as described above, the project owner shall submit to the CPM a letter stating that the above documents have been stored and indicate the storage location of such documents.	When As-Builts are stored		LGC	
CIVIL										
CIVIL	1	PC	X			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 Report, Geotechnical Report of Foundation Investigations Report required by the 2001 CBC.	At least 15 days (or project owner and CBO approved alternative timeframe) prior to the start of site grading, the project owner shall submit the documents described above to the CBO for review and approval.	Prior to start of site grading	15	LGC
CIVIL	1	CONS			MCR		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.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
CIVIL	1	CONS	100			Soil Backfill Inspection Report		to CBO on 7/20/11		LGC
CIVIL	1	CONS	102			Drainage and grading, Rev 4		CBO approved 6/23		LGC
CIVIL	3		103			Soil and Waster test results		For Record from CBO		LGC
CIVIL	1	CONS	104			Dewatering Plan		CBO approved 6/15		LGC
CIVIL	1	CONS	304			Revised Submittal Utility Reroute Plan		to CBO on 6/21		LGC
CIVIL	2	CONS	x			The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible soils engineer, geotechnical engineer, or 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 notify the CPM within 24 hours, when earthwork and construction is stopped as a result of unforeseen adverse geologic/soil conditions.	Upon discovery	1	LGC
CIVIL	2	CONS				The project owner shall obtain approval from the CBO before resuming earthwork and construction in the affected area.	Within 24 hours of the CBO's approval to resume earthwork and construction in the affected areas, the project owner shall provide to the CPM a copy of the CBO's approval.	After CBO approval	1	LGC
CIVIL	3	CONS	x			The project owner shall perform inspections in accordance with the 2001 CBC. All plant site-grading operations shall be subject to inspection by the CBO and the CPM. If, in the course of inspection, it is discovered that the work is not being done in accordance with the approved plans, the discrepancies shall be reported immediately to the resident engineer, the CBO, and the CPM	Within five days of the discovery of any discrepancies, the resident engineer shall transmit to the CBO and the CPM a Non-Conformance Report (NCR), and the proposed corrective action for review and approval.	Upon discovery	5	LGC
CIVIL	3	CONS	x			The project owner shall prepare a written report, with copies to the CBO and the CPM, detailing all discrepancies, noncompliance items, and the proposed corrective action.	Within five days of resolution of the NCR, the project owner shall submit the details of the corrective action to the CBO and the CPM.	After resolution	5	LGC
CIVIL	3	CONS			MCR		A list of NCRs, for the reporting month, shall be included in the following Monthly Compliance Report.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
CIVIL	4	CONS	x			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.	Within 30 days (or project owner and CBO approved alternative timeframe) 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.	After completion	30	LGC
CIVIL	4	CONS			MCR		The project owner shall submit a copy of the CBO's approval to the CPM in the next Monthly Compliance Report.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
STRUC										
STRUC	1	CONS	X			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. Construction of any structure or component shall not commence until the CBO has approved the lateral force procedures.	At least 30 days (or project owner and CBO approved alternative timeframe) prior to the start of any increment of construction of any structure or component listed in Facility Design Table 1 of Condition of Certification GEN-2, the project owner shall submit to the CBO the above final design plans, specifications and calculations, with a copy of the transmittal letter to the CPM.	Prior to the start of any increment of construction of any structure	30	LGC

STRUC	1	CONS		MCR		The project owner shall submit to 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 are in compliance with the requirements set forth in the applicable engineering LORS.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
STRUC	1	CONS	201		HRSR Foundation Load Study		Retroactively approved disposition received 7/27/11. New sent to the CBO on 8/3/11. Approved with note disposition received 8/23/11		LGC
STRUC	1	CONS	202		HRSR Foundation & Calculations		Revised documents sent to the CBO on 7/29/11 and 8/3/11. Approved disposition received 8/10/11. One revised sent to the CBO on 8/11/11. Approved with note disposition received 8/24/11. New documents sent to the CBO on 9/7/11. Approved disposition received 9/27/11		LGC
STRUC	1	CONS	203		STG Foundation & Calculations		Approved disposition received 7/12/11. One document to the CBO on 9/9/11. One revised drawing sent to the CBO on 9/26/11. Approved disposition received 9/27/11. One revised drawing sent to the CBO on 9/30/11. Two revised drawings sent to the CBO on 10/3/11. Approved disposition received 10/17/11 for DCN-002. Info only disposition received 10/17/11 for DCN-004. Info only disposition received 10/17/11 for DCN-006. Info only disposition received 10/17/11 for DCN-008. Approved disposition received 10/25/11. DCN-012 sent to the CBO on 10/31/11. Info only disposition received 11/1/11. One revised drawing sent to the CBO on 11/7/11. DCN-014 and observation report sent to the CBO on 11/11/11. DCN-016 and DCN-017 sent to the CBO on 11/15/11. Approved disposition received 11/16/11 for DCN-014. Approved with note disposition received 11/16/11 for DCN-016 and DCN-017. Structural observation report 2 sent to the CBO on 11/17/11		LGC
STRUC	1	CONS	204		Cooling Tower Foundation & Calculations		Disposition received 7/12/11, response required. Approved disposition received 7/12/11 for LE-CTW-DE-S7-0160, Sheet 1, Rev. 2 only. Disposition response & 4 revised drawings sent to the CBO on 7/26/11. Three revised drawings sent to the CBO on 8/11/11. Response required disposition received 8/24/11. Four revised drawings and disposition response sent to the CBO on 8/30/11. Approved disposition received 9/6/11 for all documents. One revised drawing sent to the CBO on 9/26/11. Approved disposition received 10/17/11 for DCN-005. DCN-010 sent to the CBO on 10/20/11. Info only disposition received 10/27/11		LGC

STRUC	1	CONS	205		Cooling Tower		Response required from CBO 5/27. 20 revised docs and disposition response to the CBO on 8/18/11. Two docs sent to the CBO on 9/14/11. Six documents sent to the CBO on 9/27/11. Approved disposition received 9/28/11. Approved disposition received 10/25/11		LGC
STRUC	1	CONS	206		Drainage and Grading		Approved by CBO 6/20		LGC
STRUC	1	CONS	206		Standard Notes and Details		To CBO on 6/8		LGC
STRUC	1	CONS	209		Temporary Supports		Approved disposition 7/12/11		LGC
STRUC	1	CONS	209		Inspection Report for CW Pipe Phase 2		Sent to the CBO on 7/6/11		LGC
STRUC	1	CONS	210		Concrete Mix Design		CBO Info Only 6/13. One document sent to the CBO on 8/25/11. Disposition received 9/1/11, response required. Disposition received 10/27/11, for CBO record only. 4 new documents sent to the CBO on 10/27/11. One new document sent to the CBO on 11/1/11. Disposition received 11/2/11 for all as CBO record only. Disposition received 11/21/11 for all as CBO record only		LGC
STRUC	1	CONS	211		STG Documents		CBO Response Required received 6/22. Disposition response and one revised calc sent 7/22/11. (Brooks-Ransom Structural Calcs); Disposition received 8/1/11, partial approval. 10 documents sent to the CBO on 11/10/11. Approved disposition received 11/16/11 for all documents to date		LGC
STRUC	1	CONS	212		Pad Support Arrangement & Calculations		Disposition received 8/17/11, response required. Two revised documents sent to the CBO on 11/9/11. Approved disposition received 11/17/11 for all documents to date		LGC
STRUC	1	CONS	213		HRSR ASME Calculations		Disposition received 8/17/11, response required. Disposition response and revised calcs sent to the CBO on 9/22/11. Approved disposition received 10/26/11 for all documents		LGC
STRUC	1	CONS	214		GSU Foundation Design Drawings & Calculations		Sent to the CBO on 8/26/11. Disposition received 9/22/11, response required. Two documents and disposition response sent to the CBO on 10/11/11. Approved disposition received 10/26/11		LGC
STRUC	1	CONS	216		Oil Water Separator/Cooling Water Heat Exchanger Foundation Designs		To the CBO on 9/7/11 and 9/9/11. Response required disposition received 10/12/11. One document sent to the CBO on 10/17/11. Sent revised drawing & disposition response to the CBO on 10/18/11. DCN-009 sent to the CBO on 10/20/11. DCN-011 sent to the CBO on 10/24/11. Disposition received 10/27/11, approved with note. One revised drawing sent to the CBO on 11/16/11. DCN-011 sent to the CBO on 11/22/11		LGC

STRUC	1	CONS	217		Misc. Foundations		Four documents sent to the CBO on 10/21/11. Two documents sent to the CBO on 10/25/11. Two documents sent to the CBO on 10/27/11. One revised drawing and partial responses to CBO-216 sent to the CBO on 10/28/11. One calculation sent to the CBO on 10/28/11. Approved disposition received 11/9/11 for docs sent to CBO on 10/27/11. Approved disposition received 11/9/11 for the condenser exhauster foundation. Approved with comment disposition received 11/9/11 for haz storage. One drawing sent to the CBO on 11/14/11. Info only disposition received 11/16/11 for DCN-015. Response required disposition received 11/23/11 for water treatment extension and boiler feed pump. Haz material storage revised drawing sent to the CBO on 11/22/11. DCN-019 sent to the CBO on 11/28/11		LGC
STRUC	1	CONS	218		Fuel Gas Compressor Foundation & Design		Sent one calculation & one drawing to the CBO on 11/4/11		LGC
STRUC	1	CONS	219		HRSB Blowdown Pit & Sump Foundation & Design		Three documents sent to the CBO on 11/7/11. Two documents sent to the CBO on 11/16/11		LGC
STRUC	1	CONS	220		Pipe Rack Foundations		Sent to the CBO on 11/8/11		LGC
STRUC	1	CONS	250		Pipe Rack Steel		7 drawings and one calculation sent to the CBO on 11/14/11		LGC
STRUC	1	CONS	800		Warehouse		To the CBO on 8/3/11		LGC
STRUC	1	CONS	901		Temp Trailer and Decking		Revised drawing sent to the CBO on 6/29/11. Meeting room and revised layout site plan sent 7/18/11. Approved disposition received 7/18/11. New drawing sent 7/21/11. Disposition received 8/3/11, response required. Revised alternate meeting room & trailer layout plan sent to the CBO on 8/10/11. Calpine letter to the CBO 8/18/11. Approved disposition received 9/7/11		LGC
STRUC	2	CONS	x		The project owner shall submit to the CBO the following documents related to work that has undergone CBO design review and approval: 1. Concrete cylinder strength test reports 2. Concrete pour sign-off sheets; 3. Bolt torque inspection reports 4. Field weld inspection reports; and 5. Reports covering other structural activities requiring special inspections shall be in accordance with the 2001 CBC	If a discrepancy is discovered in any of the STRUC-2 data, the project owner shall, within five 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 the CPM.	Upon discovery of data discrepancy	5	LGC
STRUC	2	CONS	x			Within five days of resolution of the NCR, the project owner shall submit a copy of the corrective action to the CBO and the CPM.	After receipt of NCR resolution	5	LGC
STRUC	2	CONS				The project owner shall transmit a copy of the CBO's approval or disapproval of the corrective action to the CPM within 15 days.	After CBO action	5	LGC
STRUC	3	CONS	x		The project owner shall submit to the CBO design changes to the final plans required by the 2001 CBC, and 2001 CBC Information on plans and specifications, including the revised drawings, specifications, calculations, and a complete description of, and supporting rationale for, the proposed changes, and shall give the CBO prior notice of the intended filing	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 above-mentioned documents to the CBO, with a copy of the transmittal letter to the CPM.	As required by the CBO		LGC
STRUC	3	CONS		MCR		The project owner shall notify the CPM, via the Monthly Compliance Report, when the CBO has approved the revised plans.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC

STRUC	4	CONS	x		Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts specified in Chapter 3, Table 3-E of the 2001 CBC shall, at a minimum, be designed to comply with the requirements of that Chapter.	At least 30 days (or project owner and CBO approved alternate timeframe) 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.	Prior to the installation of tanks/vessels	30	LGC
STRUC	4	CONS		MCR		The project owner shall send copies of the CBO approvals of plan checks to the CPM in the following Monthly Compliance Report. The project owner shall also transmit a copy of the CBO's inspection approvals to the CPM in the Monthly Compliance Report following completion of any inspection	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
MECH									
MECH	1	CONS	x		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 1, Condition of Certification GEN 2. The submittal shall also include applicable QA/QC procedures.	At least 30 days (or project owner and CBO approved alternate timeframe) prior to the start of any increment of major piping or plumbing construction listed in Facility Design Table 1, Condition of Certification GEN-2, 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 for the responsible mechanical engineer certifying compliance with the applicable LORS.	Prior to the start of any increment of major piping or plumbing construction	30	LGC
MECH	1		51		Mechanical Specification		Three specs sent to the CBO on 10/7/11. One spec sent to the CBO on 10/10/11. One spec sent to the CBO on 10/13/11. Five specs sent to the CBO on 10/25/11. Approved disposition received 11/2/11 for 404216, 405020, 405505. Approved with note disposition received 11/8/11 for 406001, 406003, 406011, 406002		LGC
MECH	1		300		Circulating Water System		Revised spec sent to the CBO on 7/1/11. 32 revised specs sent to the CBO on 7/29/11. Revised drawing sent to the CBO on 8/23/11. Approved disposition received 10/26/11		LGC
MECH	1		302		P&IDs		Conditionally approved by CBO 6/27. 22 revised drawings sent to the CBO on 8/15/11. Revised drawing sent to the CBO on 8/23/11. 11 drawings sent to the CBO on 10/17/11. Approved with notes disposition received 11/8/11 for steam		LGC
MECH	1		304		Revised Submittal Utility Reroute Plan		Approved with Note by COB 6/30. One revised drawing sent to the CBO on 9/22/11. One revised drawing sent to the CBO on 9/30/11. Six drawings sent to the CBO on 10/7/11. Approved disposition received 10/17/11		LGC
MECH	1		304		UG Piping		To the CBO on 9/23/11. 72 drawings sent to the CBO on 9/28/11. One drawing sent to the CBO on 10/6/11. Approved disposition received 10/13/11 for isometric. Info only disposition received 10/17/11 for DCN-007. One drawing sent to the CBO on 10/24/11. Cathodic disposition received 11/4/11 as conditionally approved. DCN-013 sent to the CBO on 11/9/11 and approved with comment disposition received 11/9/11		LGC
MECH	1		305		Piping Stress Analysis Criteria, Piping Analysis Calculations		To the CBO on 8/26/11. Conditional approval disposition received 9/27/11		LGC
MECH	1		306		Modular Fabrication		To the CBO on 9/9/11. Information and records only disposition received 10/12/11		LGC
MECH	1		307		Platform Fabricator		To the CBO on 9/9/11. Information and records only disposition received 10/12/11		LGC

MECH	1		308		Repair Procedures		To the CBO on 9/16/11. Information only disposition received 10/17/11		LGC
MECH	1		310		Piping Line List		One drawing sent to the CBO on 11/4/11		LGC
MECH	1		1000		FREP		To the CBO on 7/12/11. Disposition received 8/31/11, review stopped		LGC
MECH	1		1003		UG Fire Protection Test Package		To the CBO on 9/26/11. Review stopped disposition received 11/1/11		LGC
MECH	2	CONS	x		For all pressure vessels installed in the plant, the project owner shall submit to the CBO and Cal-OSHA, prior to operation, the code certification papers and other documents required by the applicable LORS.	At least 30 days (or project owner and CBO approved alternative timeframe) prior to the start of on-site fabrication or installation of any pressure vessel, the project owner shall submit to the CBO for review and approval, the documents listed in MECH-2 including a copy of the signed and stamped engineer's certification, with a copy of the transmittal letter to the CPM	Prior to the start of on-site fabrication or installation of any pressure vessel	30	LGC
MECH	2	CONS	x	MCR	Upon completion of the installation of any pressure vessel, the project owner shall request the appropriate CBO and/or Cal-OSHA inspection of said installation.	The project owner shall transmit to 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.	Randy Rose prepares monthly and provides to Rod Jones (Catpine)		LGC
MECH	3	CONS	x		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, shall be identified with the appropriate manufacturer's data sheets.	At least 30 days (or project owner and CBO approved alternative timeframe) 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 the CPM.	Prior to the start of construction of any HVAC or refrigeration system	30	LGC
MECH	3	CONS	x		Upon completion of any increment of construction, the project owner shall request the CBO's inspection and approval of said construction.		Hold Points		LGC
ELEC									
ELEC	1	CONS	X		Prior to the start of any increment of electrical construction for electrical equipment and systems 480 volts and higher, listed 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	At least 30 days (or project owner and CBO approved alternative timeframe) prior to the start of each increment of electrical construction, the project owner shall submit to the CBO for design review and approval of the above listed documents.	Prior to start of each increment of electrical construction	30	LGC
ELEC	1	CONS	X		The project owner shall request that the CBO inspect the installation to ensure compliance with the requirements of applicable LORS		Hold Points		LGC
ELEC	1	CONS	51		Electrical Specifications		2 specs sent to the CBO on 10/5/11. One spec sent to the CBO on 10/6/11		LGC
ELEC	1	CONS	401		Grounding and Grounding Plans		To the CBO on 9/2/11. Disposition received 9/8/11, response required. 9 documents sent to the CBO on 9/19/11. Approved disposition received 9/22/11 for docs sent on 9/19/11		LGC
ELEC	1	CONS	402		Lighting Plans, Notes & Details		One drawing sent to the CBO on 11/4/11		LGC
ELEC	1	CONS	451		UG Duct Banks		To the CBO on 9/23/11. One sheet conditionally approved on 10/18/11. Sent 10 revised and new drawings to the CBO on 10/24/11. Approved disposition received 11/2/11		LGC
ELEC	1	CONS	902		Temporary Trailer Utilities		To the CBO on 8/2/11 and 8/29/11. Disposition received 9/8/11, response required. Approved disposition received 10/17/11 for DCN-001. Four drawings sent to the CBO on 11/11/11. Approved with comments disposition received 11/21/11 for 11/11/11 documents		LGC

GENERAL CONDITIONS									
COM	8	PC			Construction and Operation Security Plan	At least 14 days prior to commencing construction, the project owner shall submit a Security Plan for the construction phase	Prior to the start of construction	14	LGC
COM	8	CONS			Construction and Operation Security Plan	At least 30 days prior to the initial receipt of hazardous material on site, the project owner shall submit a Security Plan & Vulnerability Assessment for the operational phase.	Prior to receipt of hazardous materials	30	LGC
HAZARDOUS MATERIALS MANAGEMENT									
HAZ	4	PRE-OP			The aqueous ammonia storage facility shall be designed to both the ASME Pressure Vessel Code and ANSI K61.6, or to API 620. In either case, the storage tank(s) shall be protected by a secondary containment basin capable of holding 110% of the primary container if a single container is used, or in the case of multiple containers, 150% of the volume of the largest container.	At least 60 days prior to delivery of aqueous ammonia to the facility that is specified for use in Phase 2 operations, the project owner shall submit final design drawings and specifications for the ammonia storage tank and secondary containment basin to the CPM for review and approval.	Prior to the delivery	60	LGC
HAZ	6	PRE-OP			The project owner shall ensure that no combustible or flammable material is stored within 100 feet of the sulfuric acid tank.	At least 30 days prior to receipt of sulfuric acid on-site, the Project Owner shall provide to the CPM for review and approval copies of the facility design drawings showing the location of the sulfuric acid storage tank and the location of any tanks, drums, or piping containing any combustible or flammable material and the route by which such materials will be transported through the facility.	Prior to receipt of sulfuric acid	30	LGC
HAZ	7	PRE-OP			The project owner shall direct all vendors delivering any hazardous material to the site to use only the route approved by the CPM (SR237 to Zanker Road to the facility) consistent with Condition TRANS-3.	At least 60 days prior to receipt of any hazardous materials onsite, the project owner shall submit to the CPM for review and approval, a copy of the letter to be mailed to the vendors. The letter shall state the required transportation route limitation.	Prior to receipt of any hazardous materials	60	LGC
LAND USE									
NOISE	4	CONS			The project owner shall equip steam blow piping with a temporary silencer that quiets the noise of steam blows to no greater than 89 dBA measured at a distance of 50 feet.	At least 15 days prior to the first steam blow, the project owner shall submit to the CPM drawings or other information describing the temporary steam blow silencer and the noise levels expected, and a description of the steam blow schedule.	Prior to the first steam blow	15	LGC
NOISE	6	PRE-OP			The project design and implementation shall include appropriate noise mitigation measures adequate to ensure that operation of the project will not cause noise levels due to plant operation to exceed the values shown in NOISE-6. When the projects first achieves a sustained output of 80 percent or greater of rated capacity, the project owner shall conduct noise surveys as described in NOISE-6.	The survey shall take place within 30 days of the project first achieving a sustained output of 80 percent or greater of rated capacity.	After achieving a sustained output of 80 percent or greater of rated capacity	30	LGC
NOISE	6	PRE-OP				Within 30 days after completing the survey, the project owner shall submit a summary report of the survey to the CPM. The report shall describe additional mitigation measures necessary to achieve compliance with the NOISE-6 limits.	After completing the survey	30	LGC
NOISE	6	PRE-OP				When mitigation measures described in the summary report are in place, the project owner shall repeat the noise survey. Within 30 days after completing the new survey, the project owner shall submit to the CPM a summary report of the new noise survey.	After completing the new survey	30	LGC
PALEONTOLOGICAL RESOURCES									
PAL	3	CONS		MCR	Each worker shall sign a Certification of Completion WEAP form indicating that they have received the training. A sticker that shall be placed on hard hats indicating that environmental training has been completed shall be provided to each worker that has completed the training	Documentation for training of additional new employees shall be provided in subsequent Monthly Compliance Reports, as provided in the Certification of Completion WEAP form at the end of these conditions.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
SOCIOECONOMICS									
SOCIO	1	PC			The project owner and its contractors and subcontractors shall recruit employees and procure materials and supplies within the Bay Area	At least 60 days prior to the start of construction, the project owner shall submit to the Energy Commission CPM copies of contractor, subcontractor, and vendor solicitations and guidelines stating hiring and procurement requirements and procedures.	Prior to the start of construction	60	LGC
SOCIO	1	CONS		MCR		The project owner shall notify the CPM in each Monthly Compliance Report of the reasons for any planned procurement of materials or hiring outside the Bay Area that will occur during the next two months.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
SOIL & WATER RESOURCES									
TRAFFIC AND TRANSPORTATION									

TRANS	2	CONS		MCR	The project owner shall comply with Caltrans and other affected jurisdictions' limitations on vehicle sizes and weights. In addition, the project owner or their contractor shall obtain necessary transportation permits from Caltrans and all relevant jurisdictions for roadway use.	In the Monthly Compliance Reports, the project owner shall submit copies of any oversize and overweight transportation permits received during that reporting period. In addition, the project owner shall retain copies of these permits and supporting documentation in its compliance file for at least six months after the start of commercial operation.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
TRANS	3	CONS		MCR	The project owner shall ensure that permits and/or licenses are secured from the CHP and Caltrans for the transport of all hazardous materials, and that all federal and state regulations for the transport of hazardous materials are observed. The project owner shall ensure that all heavy vehicles and vehicles transporting hazardous materials shall use the following route: from SR 237, exit northbound at Zanker Road, from Zanker turn right to enter the LECEEF site via Thomas Foon Chew Way, the primary site access road	The project owner shall include in its Monthly Compliance Reports during construction and Annual Compliance Reports during operations copies of all permits and licenses acquired by the project owner concerning the transport of hazardous materials and copies of written documentation to transporters indicating the preferred route for delivery of hazardous materials.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
TRANS	4	PC			Prior to the construction of the power plant and all related facilities, the project owner shall develop a parking and staging plan for all phases of project construction, to enforce a policy that all project related parking occurs onsite.	At least 30 days prior to the start of site mobilization, the project owner shall submit the plan to the City of San Jose Public Works staff for review and comment, and to the CPM for review and approval. The material submitted to the CPM shall include documentation of the City's review and comments.	Prior to the start of mobilization	30	LGC
TRANS	4	CONS		MCR		MCRs submitted to the CPM shall describe the project owner's actions to ensure that this condition is being met.	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
TRANS	5	OP			The project owner shall repair affected public rights-of-way (e.g., highway, road, bicycle path, pedestrian path, etc.) to original or near original condition that have been damaged due to construction activities conducted for the project and its associated facilities.	Within 60 calendar days after completion of construction, the project owner shall meet with the CPM, the affected local jurisdiction(s) and Caltrans (if applicable) to identify sections of the public right-of-way to be repaired, to establish a schedule to complete the repairs, and to receive approval for the action(s).	After completion of construction	60	LGC
TRANSMISSION LINE SAFETY AND NUISANCE									
TLSN	1	CONS			The project owner shall build any future underground interconnection lines according to the requirements of CPUC's GO-128.	Thirty days before line-related ground disturbance, the project owner shall submit to the CPM a letter signed by a California registered electrical engineer affirming that the proposed line will be constructed according to the requirements of GO-128.	Prior to line-related ground disturbance	30	LGC
TLSN	2	CONS			The project owner shall engage a qualified consultant to measure the strengths of the magnetic fields from PG&E to LECEEF's switchyard. Measurements shall be made at the same points (identified as Points A, B, C, and D) for which calculated field strength measurements were provided by the Applicant.	The project owner shall file copies of the pre- and postenergization measurements with the CPM within 60 days after completion of the measurements.	After completion of the measurements	60	LGC
TLSN	3	CONS			The project owner shall build the proposed overhead 230 kV interconnection lines according to the requirements of CPUC's GO-52, (and GO-128 if underground) Title 8, Section 2700 et seq. of the California Code of regulations, and PG&E's EMF reduction guidelines arising from CPUC Decision 93-11-013.	Thirty days before line-related ground disturbance, the project owner shall submit to the CPM a letter signed by a California registered electrical engineer affirming that the proposed line will be constructed according to the requirements noted above.	Prior to line-related ground disturbance	30	LGC
TRANSMISSION SYSTEM ENGINEERING									
TSE	1	PC	X		The project owner shall furnish to the CPM and to the CBO a schedule of transmission facility design submittals, a Master Drawing List, a Master Specifications List, and a Major Equipment and Structure List.	At least 60 days (or a lesser number of days mutually agreed to by the project owner and the CBO) prior to the start of construction of transmission facilities, the project owner shall submit the schedule, a Master Drawing List, and a Master Specifications List to the CBO and to the CPM.	Prior to the start of construction of transmission facilities	60	LGC
TSE	1	CONS		MCR		The project owner shall provide schedule updates in the Monthly Compliance Report	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
TSE	2	PC	X		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: 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.	At least 30 days (or a lesser number of days mutually agreed to by the project owner and the CBO) prior to the start of rough grading, 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.	Prior to the start of rough grading	30	LGC
TSE	2	CONS				If any one of the designated engineers is subsequently reassigned or replaced, the project owner has five days in which to submit the names, qualifications and registration numbers of newly assigned engineers to the CBO for review and approval. The CPM shall be notified of CBO approval within five days of approval.	Prior to reassignment or replacement	5	LGC
TSE	2	CONS	3			Tim Byrne resume and letter	To the CBO on 11/17/11		LGC

TSE	3	CONS	x		The project owner shall keep the CBO informed regarding the status of engineering design and construction. 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.	The project owner shall submit a copy of the CBO's approval or disapproval of any corrective action taken to resolve a discrepancy to the CPM within 15 days of receipt.	After CBO action	15	LGC
TSE	3	CONS				If disapproved, the project owner shall advise the CPM, within five days, the reason for disapproval, and the revised corrective action required to obtain the CBO's approval.	After CBO disapproval	5	LGC
TSE	4	CONS	X		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	At least 30 days (or a lesser number of days mutually agreed to by the project owner and the CBO) prior to the start of each increment of construction, 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	Prior to the start of each increment of construction	30	LGC
TSE	4	CONS	X		The project owner shall request that the CBO inspect the installation to ensure compliance with the requirements of applicable LORS.		Hold Points		LGC
TSE	4	CONS		MCR	Activities related to the power plant switchyard, outlet line and termination that are listed in TSE-4 shall be reported in the MCR.	Send the CPM a copy of the transmittal letter in the next Monthly Compliance Report	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC
TSE	5	CONS	X		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 in TSE-5, as modified by subsequent amendment to the project license.	At least 60 days prior to the start of construction of transmission facilities (or a lesser number of days mutually agree to by the project owner and CBO), the project owner shall submit to the CBO for approval the items listed in TSE-5, as modified by subsequent amendment to the project license.	Prior to the start of construction of transmission facilities	60	LGC
TSE	6	CONS	X		The project owner shall inform the CPM and CBO in writing of any impending changes, which may not conform to the requirements TSE-5 a) through g), and have not received CPM and CBO approval, and request approval to implement such changes. Construction involving changed equipment or substation configurations shall not begin without prior written approval of the changes by the CBO and CPM.	At least 60 days prior to the construction of transmission facilities, the project owner shall inform the CBO and the CPM in writing of any impending changes which may not conform to requirements of TSE-5 and request approval to implement such changes.	Prior to the start of construction of transmission facilities	60	LGC
TSE	7	CONS			The project owner shall provide Notice to the Cal-ISO and PG&E prior to synchronizing the facility with the California transmission system	The project owner shall provide copies of the Cal-ISO letter to the CPM and PG&E when it is sent to the Cal-ISO one (1) week prior to initial synchronization with the grid.	Prior to initial synchronization with the grid	7	LGC
TSE	7	CONS				The project owner shall contact the Cal-ISO Outage Coordination Department, Monday through Friday, between the hours of 0700 and 1530 at (916) 351-2300 at least one business day prior to synchronizing the facility with the grid for testing.	Prior to synchronizing the facility with the grid	1	LGC
TSE	7	CONS				A report of conversation with the Cal-ISO shall be provided electronically to the CPM one (1) day before synchronizing the facility with the California transmission system for the first time.	Prior to initial synchronization with the grid	1	LGC
TSE	8	CONS			The project owner shall be responsible for the inspection of the transmission facilities during and after project construction, and any subsequent CPM and CBO approved changes thereto	Within 60 days after first synchronization of the project, the project owner shall transmit to the CPM and CBO: a) "As built" engineering description(s) and one-line drawings of the electrical portion of the facilities; b) An "as built" engineering description of the mechanical, structural, and civil portion of the transmission facilities; c) A summary of inspections of the completed transmission facilities, and identification of any nonconforming work and corrective actions taken. Documents to be signed and sealed by registered engineer as indicated in TSE-8	Prior to initial synchronization with the grid	60	LGC
TSE	8	CONS			In case of non-conformance, the project owner shall inform the CPM and CBO in writing, within 10 days of discovering such non-conformance and describe the corrective actions to be taken		Upon discovery	10	LGC
VISUAL RESOURCES									
VIS	1	PRE-OP			The project owner shall submit a plan to the CPM for review and approval and to the City of San Jose for review and comment for restoring the surface conditions of construction staging and storage areas. The plan shall include grading, contouring, and revegetation consistent with applicable plans. The project owner shall not implement the plan until receipt of written approval.	At least 45 days prior to beginning implementation of the surface restoration, the project owner shall submit the restoration plan to the CPM for review and approval and to the City of San Jose for review and comment.	Prior to beginning implementation of the surface restoration	45	LGC

VIS	2	CONS			The project owner shall a) treat all project structures and buildings visible to the public in appropriate colors or hues that minimize visual intrusion and contrast by blending with the surrounding landscape, and b) ensure that those structures and buildings have surfaces that do not create glare. A specific treatment plan shall be developed for CPM approval to ensure that the proposed colors do not unduly contrast with the surrounding landscape colors. Prior to submittal of the plan to the CPM, the project owner shall submit the plan to the City of San Jose for review and comment. The project owner shall not perform the final treatment on any structures until receipt of approval of the treatment plan from the CPM.	At least 30 days prior to ordering the first structures that are color treated during manufacture, the project owner shall submit its proposed plan to the CPM for review and approval and to the City of San Jose for review and comment.	Prior to ordering the first structures that are color treated during manufacture	30	LGC	
VIS	2	CONS				Prior to the start of commercial operation of Phase 2, the project owner shall notify the CPM that all structures treated during manufacture and all structures treated in the field are ready for inspection.	Prior to the start of operation		LGC	
VIS	4	CONS	450		The project owner shall design and install all lighting such that light bulb and reflector glare is not visible from public viewing areas and illumination of the vicinity and the night sky is minimized during both project construction and operation. The project owner shall develop and submit lighting plans for construction and operation of the project to the CPM for review and approval and the City of San Jose for review and comment. Lighting shall not be installed before the plans are approved.	At least 15 days prior to installing the construction lighting, the project owner shall provide the construction lighting plans to the CPM for review and approval and the City of San Jose for review and comment.	To the CBO on 10/20/11. Disposition received 11/2/11, resubmit	15	LGC	
VIS	4	CONS				At least 30 days before ordering the facility exterior lighting, the project owner shall provide the lighting plan to the CPM for review and approval and the City of San Jose for review and comment.	Prior to ordering the facility exterior lighting	30	LGC	
VIS	4	CONS				The project owner shall notify the CPM within seven days of completing exterior lighting installation that the lighting is ready for inspection.	After completing exterior lighting installation	7	LGC	
VIS	5	CONS			The project owner shall comply with the City of San Jose's requirements regarding signs visible to the public. In addition, the project owner shall install minimal signage, which shall be constructed of non-glare materials and unobtrusive colors.	At least 30 days prior to installing signage visible to the public, the project owner shall submit the plan to the CPM for review and approval and to the City of San Jose for review and comment.	Prior to installing signage visible to the public	30	LGC	
VIS	5	CONS				The project owner shall notify the CPM within 7 days after completing installation of the signage that they are ready for inspection.	After completing installation of the signage	7	LGC	
WASTE MANAGEMENT										
WASTE	2		1203		TRC Soil and GW Report		Info to CBO only		LGC	
WASTE	5	CONS		MCR	Both the project owner and its construction contractor shall obtain unique hazardous waste generator identification numbers from the Department of Toxic Substances Control prior to generating any hazardous waste.	The project owner and its construction contractor shall keep copies of the identification numbers on file at the project site and notify the CPM via the monthly compliance report of their receipt	Randy Rose prepares monthly and provides to Rod Jones (Calpine)		LGC	
WORKER SAFETY AND FIRE PROTECTION										
SAFETY	1	PC	1100		The project owner shall submit to the CPM an updated Project Construction Safety and Health Program containing: • Construction Injury and Illness Prevention Program; • Construction Safety Program; • Construction Personal Protective Equipment Program; • Construction Exposure Monitoring Program; • Construction Emergency Action Plan; and • Construction Fire Protection and Prevention Plan.	At least 30 days prior to the start of construction, the project owner shall submit to the CPM for review and approval a copy of the updated Project Construction Safety and Health Program.	Disposition received 7/13/11 as info only	30	LGC	
SAFETY	1	PC			The Construction Fire Protection and Prevention Plan and the Emergency Action Plan shall be submitted to the City of San Jose Fire Dept. for review and comment prior to submittal to the CPM.	The project owner shall provide a letter from the City of San Jose Fire Dept. stating that they have reviewed and commented on the CFPPP and EAP.	Prior to the start of construction	30	LGC	
SAFETY	3	PC			The project owner shall prepare and submit to the CPM an updated Operations Fire Prevention Plan describing the onsite fire protection system that will be provided in this project.	At least 30 days prior to the start of construction, the project owner shall submit to the City of San Jose Fire Department a copy of the final version of the Operations Fire Prevention Plan for review and comment and to the CPM for review and approval.	Prior to the start of construction	30	LGC	

SAFETY	5	PC		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 specific operations, and has authority to take appropriate action.	At least 30 days prior to the start of site mobilization, the project owner shall submit to the CPM the name and qualifications of the CSS for review and approval.	Prior to the start of mobilization	30	LGC
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AQ-SC5

EQUIPMENT IN USE IN DECEMBER 2011 BY CONTRACTOR

Duran and Venables

Street Sweeper

Compactor Cat CB-224E

Excavator Cat 330

Water Truck

Compactor Cat CP-433E

2 ten wheel dump trucks

Grader Box Deere 210

Excavator Bobcat E35

Track Loader Cat 963D

MBI:

Backhoe Deere 710

Overra:

Man lift JLG 860SJ

Fork lift JLG G10-554

Harder Mechanical:

Fork lift Grade all 534D9-45

Fuel Consumption:

MBI/ 172 gallons of diesel

Overaa/ 200 gallons of diesel

Duran and Venables/ 570 gallons of diesel

Harder/ 580 of Diesel and 211 of gasoline

