CCGS LLC

Thomas J. Chiangi
Oakley Power Project
CCGS Project Director
Power Plant Systems
4125 Windward Plaza, Suite 500
Alpharetta, GA 30005
USA
T +1 678 245-6282
C +1 404 395-9217
F +1 678 245-6427
tom.chiangi@ge.com

CCGS-CEC-0010

Mr. Craig Hoffman
Compliance Project Manager
(09-AFC-4C)
California Energy Commission
1516 Ninth Street (MS-2000)
Sacramento, CA 95814

December 14, 2011

Subject: **Oakley Generating Station Project, 09-AFC-4, COMPLIANCE-6**
Monthly Compliance Report No. 5 for the Reporting Period of November 2011

Dear Mr. Hoffman,

Pursuant to Condition of Certification COMPLIANCE-6, enclosed is Oakley Generating Station Project Monthly Compliance Report No. 5 for the reporting period of November 2011.

To satisfy the CEC requirement for an electronic version this report is also being submitted via email.

Should you have any questions concerning this matter, please contact me at your earliest convenience or Mr. Zenis Walley at (415) 243-3743.

Sincerely,

T. J. Chiangi

Thomas J. Chiangi
Oakley Power Project Director
Global Projects Organization

CC: J. Xavier (GE Project Commercial Manager), O. Zevallos (GE GPO Region Manager), B. Hall (CCGS Contract Manager), B. Bedaw (GE GPO Environmental Manager), G. Lamberg (CCGS Senior VP), Z. Walley (CCGS Project Compliance Manager), J. Crapo (CBO Deputy Project Director), M. Trask (CH2MHill Compliance Manager), K. Hinojosa (ECCHC)

Oakley Generating Station Project

CEC Docket No. 09-AFC-4

Monthly Compliance Report No. 5

Reporting Period: November 2011

Prepared by Contra Costa Generating Station LLC (CCGS)

Oakley Generating Station Project

CEC Docket No. 09-AFC-4

Monthly Compliance Report No. 5

Reporting Period: November 2011

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INTRODUCTION

On May 18, 2011, the California Energy Commission (CEC) issued its Commission Decision (Docket No. 09-AFC-4) approving construction and operation of the Oakley Generating Station (OGS) Project. The CEC Compliance Project Manager (CPM) issued a Limited Notice to Proceed (LNTP)/of Construction Phase 1 activities on June 1, 2011 allowing the start of construction activities at the power plant site. The Full Notice to Proceed (FNTP) for Phase 1 activities was issued by the CEC on June 9, 2011. Similarly for Phase 2 activities the CEC issued a LNTP on June 24, 2011 with the FNTP following on July 26, 2011.

This document is a Monthly Compliance Report (MCR) as required by Condition of Certification COMPLIANCE-6. The information in this report documents the engineering, procurement, construction, and compliance activities that were performed during the reporting period: November 2011.

PROJECT STATUS (COMPLIANCE-6, 1)

Contra Costa Generating Station LLC (CCGS) (a wholly owned subsidiary of Radback Energy) is proceeding with site related activities as further described within. GE Energy is supplying the Gas Turbines, Steam Turbine, Generators, HRSG, DCS and CEMS and associated equipment as an integrated engineered equipment package. Pacific Gas & Electric Company (PG&E) will construct the transmission interconnection facilities, and will also design, build, and operate the natural gas pipeline associated with the project.

As of the end of November 2011, the Limited Notice to Proceed (LNTP) phase of the project was approximately 95 percent complete. The following table presents the percent complete numbers for the engineering, procurement, and construction activities as of the end of the month.

Activity	Percent Complete
Engineering	<5%
Procurement	<5%
Construction	<5%

A project schedule is included in Exhibit 1. A Key Events List is included in Exhibit 2. Due to the dynamic nature of a large-scale construction project, key event dates are subject to change. Construction photos taken during the reporting period are provided in Exhibits 3, 6 and 7.

Project Development Activities for November 2011:

1. Diablo Water District – Discussions are ongoing regarding the relocation of the DWD water line crossing the site. CCGS LLC will commence engineering work when the discussions have concluded to the parties' mutual satisfaction.

2. T-Line with PG&E Transmission – Negotiations on the LGIA is nearing completion and PG&E is beginning preliminary design work on the gen-tie.

3. Engineering – Submittals to the CBO are being made in order to support the current schedule. Meetings have been held between CCGS and the CBO to make certain that the CBO is up-to-date on the latest schedule and plans

4. CAISO – CCGS is presently negotiating the LGIA with PG&E and CAISO.

5. East Contra Costa County Habitat Conservancy (ECCCHC) – Revisions to the PSE incorporating the additional laydown area covered in the CEC amendment have been completed. The mitigation fees have been paid and the ECCHC is issuing a revised Certificate of Inclusion to memorialize coverage.

6. Chief Building Official (CBO) – CCGS has been making submittals to the CBO in accordance with the schedule.

7. Financing – Due diligence is ongoing.

ENGINEERING, PROCUREMENT, AND CONSTRUCTION ACTIVITIES

This section of the MCR provides detailed information on the engineering, procurement, and construction activities that were accomplished during the reporting period.

ENGINEERING

Engineering activities and schedule going forward will be dependent upon the timing of financial closing. The master CBO submittal log was updated and posted to the CBO's website, where it is available for CEC CPM review. More specific details on the engineering and design activities conducted during the reporting period are described in Exhibit 4 which includes copies of CBO approvals received during the reporting period and lists the engineering activities planned for December 2011.

PROCUREMENT

Status of equipment/material procurement will be established at the completion of contract negotiations.

CONSTRUCTION

The following construction activities were performed during November 2011:

General Activities

- Monthly activities included:
    - Completed weekly SWPPP inspections
    - Supported development of MCR for CEC CPM
    - Assisted with development of package for DWD water line
    - Application of Designated Biologist-approved herbicide for weed control

Civil/Structural

- None

Mechanical

- None

Electrical

- None

STG Activities

- None to date

HRSG Activities

- Note to date

Air Cooled Condenser Area

- None to date

CTG Area Activities

- None to date

Water Treatment Activities

- None to date

Wetland Area Activities

- None to date

The following construction activities are planned for December 2011:

General Activities

- Maintain and establish SWPPP BMP as needed.
- Maintain weed control in graded/excavated areas.

Civil/Structural

- None

Mechanical

- None

Electrical

- None

STG Activities

- None to date

HRSG Activities

- Note to date

Cooling Tower Area

- None to date

CTG Area Activities

- None to date

Water Treatment Activities

- None to date

Wetland Area Activities

- Monitoring of silt fencing and SWPPP BMP measures for erosion control.

COMPLIANCE ACTIVITIES

This section of the MCR describes activities that ensure compliance is achieved with all Conditions of Certification in the Commission Decision for the OGS Project. The following information meets the requirements in Condition of Certification COMPLIANCE-6.

Completed Compliance Activities

Monthly Compliance Report No. 5 covers the reporting period of November 2011.

Compliance Matrix (COMPLIANCE-6, 3)

The compliance matrix (Exhibit 6) was updated during the reporting period to reflect the dates that compliance submittals were provided to the CEC and the dates of any approvals by the CBO, CEC CPM, or other agencies having review or approval authority.

Conditions Satisfied and Required Documents Submitted With This MCR (COMPLIANCE-6, 2 & 4)

The Commission Decision sets forth specific conditions, many of which include reporting requirements that must be addressed in a MCR. The report format is designed to be comprehensive and inclusive of all Conditions of Certification that require monthly or "next" scheduled monthly reporting. However, only elements of conditions that are required to be addressed or which actually occurred during the subject reporting period are included in their respective exhibits. The following one-time, as occurred, and/or monthly compliance activities were completed during the reporting period:

AQ-SC1: On November 21, 2011 resumes for a James Peacock, CCGS Site Project Manager, as the new AQCMM, and Zenis Walley, CCGS Environmental Compliance Manager, as the AQCMM Delegate were submitted to the CEC. On November 22, 2011, the CEC staff approved both designations.

AQ-SC3: 1) During the reporting period zero (0) gallons of water were used for construction dust control. Work activities requiring dust control, if any, are described in the AQCMM monthly report in Exhibit 6. Dust control measures include application of water (when needed), hydroseed, hydromulch, mechanical soil compaction, and SWPPP BMP. 2) No complaints were filed with the Bay Area Air Quality Management District during the reporting period. 3) No other documentation is attached for the reporting period.

AQ-SC5: 1) A summary of all actions taken to maintain compliance, 2) list of heavy equipment, and 3) other documentation necessary to verify compliance during the reporting period is included in Exhibit 6.

AQ-SC10: Documentation in the form of the MCR will be submitted to the CPM and APCO during the facility commissioning period to demonstrate compliance. This information will be included in Exhibit 5.

BIO-2: The Designated Biologist for the OGS Project is Mr. Rick Crowe with CH2M Hill. A monthly Biological Resources Mitigation Implementation and Monitoring Report provides a summary of reporting period construction activities and associated biological monitoring, and is included in Exhibit 7.

BIO-5: During the reporting period zero (0) personnel received Worker Environmental Awareness Program training on site. The total number of personnel trained to date is 122. Documentation of worker training records for the reporting period is included in Exhibit 8.

BIO-6: The Designated Biologist/Biological Monitors provide monthly documentation on how the biological mitigation measures defined in the BRMIMP have been implemented during the reporting period. This information is included in Exhibit 7.

BIO-7: The Designated Biologist/Biological Monitors provide monthly documentation on how the general impact avoidance and minimization measures have been implemented during the reporting period. This information is included in Exhibit 7.

BIO-9: The Designated Biologist/Biological Monitors provide documentation on a pre-construction nest survey and on how impact avoidance and minimization measures related to nesting and breeding birds have been implemented during the reporting period. This information is included in Exhibit 7.

BIO-10: The Designated Biologist/Biological Monitors provide monthly documentation on how measures to minimize or avoid harassment or harm to bat species have been implemented during the reporting period. This information is included in Exhibit 7.

BIO-11: The Designated Biologist/Biological Monitors provide monthly documentation on implementation of Swainson's hawk tree mitigation and avoidance measures during the reporting period. This information is included in Exhibit 7.

BIO-12: The Designated Biologist/Biological Monitors provide monthly documentation on implementation of Western Burrowing Owl impact avoidance and minimization measures during the reporting period. This information is included in Exhibit 7.

BIO-13: The Designated Biologist/Biological Monitors provide monthly documentation on implementation of American Badger impact avoidance and minimization measures during the reporting period. This information is included in Exhibit 7.

BIO-14: The Designated Biologist/Biological Monitors provide monthly documentation on implementation of San Joaquin Kit Fox impact avoidance and minimization measures during the reporting period. This information is included in Exhibit 7.

BIO-15: The Designated Biologist/Biological Monitors provide monthly documentation on implementation of Western Pond Turtle impact avoidance and minimization measures during the reporting period. This information is included in Exhibit 7.

BIO-16: The Designated Biologist/Biological Monitors provide monthly documentation on implementation of Giant Garter Snake impact avoidance and minimization measures during the reporting period. This information is included in Exhibit 7.

BIO-17: The Designated Biologist/Biological Monitors provide monthly documentation on implementation of California Tiger Salamander impact avoidance and minimization measures during the reporting period. This information is included in Exhibit 7.

BIO-18: The Designated Biologist/Biological Monitors provide monthly documentation on implementation of California Red-Legged Frog impact avoidance and minimization measures during the reporting period. This information is included in Exhibit 7.

CIVIL-1: Documentation of CBO approval letters submitted during the reporting period is provided in Exhibit 4.

CIVIL-3: Documentation of all inspection non-conformance reports during the reporting period is provided in Exhibit 4.

CIVIL-4: Documentation of CBO approval letters submitted during the reporting period is provided in Exhibit 4.

COMPLIANCE-5: An updated compliance matrix is provided in Exhibit 10.

COMPLIANCE-6: This MCR conforms to and satisfies the Condition of Certification.

COMPLIANCE-14: None for the reporting period.

CUL-5: During the reporting period zero (0) personnel received Worker Environmental Awareness Program training on site. The total number of personnel trained to date is 122. Documentation of worker training records for the reporting period is included in Exhibit 8.

CUL-6: As they occur, Daily email reports, DPR 523A forms, and the Cultural Resources Specialist's monthly summary report are included in Exhibit 7.

For the record - Subsequent to a request from the CRS (Clint Helton) on October 4, 2011, and as the result of no current earth moving/excavation work, on October 27, 2011 the CEC staff approved a reduction of monitoring activities.

ELEC-1: Documentation of transmittal of electrical construction design review and approval by the CBO during the reporting period is included in Exhibit 4.

GEN-2: A project schedule update is included in Exhibit 1.

GEN-3: Documentation of fee payment to the CBO and CBO receipt of payment during the reporting period is included in Exhibit 5.

GEN-5: Documentation of CBO approval of responsible mechanical and electrical engineers during the reporting period is included in Exhibit 4.

GEN-6: Documentation of CBO approval of all special inspectors during the reporting period is included in Exhibit 4.

GEN-7: Documentation of CBO approval of any corrective action to resolve any design and/or construction discrepancy during the reporting period is included in Exhibit 4.

GEN-8: Documentation of: 1) notices of completed work ready for CBO inspection, and 2) signed CBO statement that work conforms to final approval plans during the reporting period is included in Exhibit 4.

MECH-1: Document of CBO inspection approvals during the reporting period is included in Exhibit 4.

MECH-2: Document of CBO and/or Cal OSHA inspection approvals during the reporting period is included in Exhibit 4.

PAL-4: During the reporting period zero (0) personnel received Worker Environmental Awareness Program training on site. The total number of personnel trained to date is 122. Documentation of worker training records for the reporting period is included in Exhibit 8.

PAL-5: A summary of the Paleontological Resource Specialist's activities during the reporting period is included in Exhibit 7.

SOIL & WATER-1: Documentation of the effectiveness of drainage, erosion and sediment control measures and the results of monitoring and maintenance activities during the reporting period is included in Exhibit 6.

SOIL & WATER-6: Documentation of the effectiveness of drainage, erosion and sediment control measures and the results of monitoring and maintenance activities pertaining to Wetland E during the reporting period is included in Exhibit 6.

STRUC-1: Documentation of CBO approval of structural plans, specifications, and calculations during the reporting period is included in Exhibit 4.

STRUC-3: Documentation of CBO approval of revised plans during the reporting period is included in Exhibit 4.

STRUC-4: Documentation of CBO approval of inspections during the reporting period is included in Exhibit 4.

TRANS-4: Documentation that required permits were obtained, as needed, during the reporting period is included in Exhibit 4. During the reporting period no project-specific traffic related permits were obtained.

TSE-1: Documentation of submittal of a construction schedule and updates to the CBO during the reporting period is provided in Exhibit 4.

TSE-4: Documentation of submittal of final design plans, specifications and calculations to the CBO during the reporting period is provided in Exhibit 4.

WASTE-7: Documentation of new or revised hazardous waste generation notifications or changes in the generator identification number during the reporting period is included in Exhibit 5.

WORKER SAFETY-3: Documentation of: 1) employees trained, 2) safety management actions and safety-related incidents, 3) unresolved situation and incidents that may pose a danger to life and health, and 4) reports of accidents and injuries during the reporting period is included in Exhibit 9.

Submittal Deadlines (COMPLIANCE-6, 5)

No submittal deadlines were missed during the reporting period.

Approved Changes to Conditions of Certification (COMPLIANCE-6, 6)

- None during the reporting period.

For the record – Amendment No. 1 to the Commission Decision for additional laydown yard/parking area approved on October 25, 2011.

Filings Submitted To or Permits Issued by Other Governmental Agencies (COMPLIANCE-6, 7)

- November 14, 2011: Provided CEC staff with documentation of NOI forms, fee statement, NOI approval, and WDID issued by the SWRCB (Exhibit 5).

Projected Compliance Activities for: December 2011 and January 2012 (COMPLIANCE-6, 8)

The following compliance activities are projected for the reporting periods:

- Adhere to Conditions of Certification, defined herein, that require monthly activities and/or per event submittals.
- BIO-2: Conduct biological monitoring as needed.
- COMPLIANCE-5 and -6: Submit MCR and compliance matrix to the CEC.
- SOIL & WATER-1 and -6: Conduct SWPPP and Wetland E inspections and reports.
- Facilitate monthly CEC staff site inspection.

Listing of Additions to Onsite Compliance Files (COMPLIANCE-6, 9)

Copies of the documents included in MCR exhibits will be added to the onsite compliance files.

Listing of Complaints, NOV, Official Warnings and Citations (COMPLIANCE-6, 10)

No complaints, NOV, official warnings or citations were issued or received during the reporting period.

EXHIBIT 1

PROJECT SCHEDULE

PROJECT SCHEDULE (COMPLIANCE-6, 1)

The Project Schedule will be updated pending close of financing.

EXHIBIT 2

KEY EVENTS LIST

KEY EVENTS LIST

PROJECT: Oakley Generating Station

DOCKET No.: 09-AFC-4

COMPLIANCE PROJECT MANAGER: Craig Hoffman

EVENT DESCRIPTION	DATE
CEC Decision Date	May 18, 2011
Obtain Site Control	December 2008
Online Date	TBD
POWER PLANT SITE ACTIVITIES	
Start Site Mobilization	June 2011
Start Ground Disturbance	June 2011
Start Grading	July/August 2011
Start Construction	June 2011
Begin Pouring Major Foundation Concrete	TBD
Begin Installation of Major Equipment	TBD
Completion of Installation of Major Equipment	TBD
First Combustion of Gas Turbine	TBD
Obtain Building Occupation Permit	TBD
Start Commercial Operation	TBD
Complete All Construction	TBD
TRANSMISSION LINE ACTIVITIES	
Start T/L Construction	TBD
Synchronization with Grid and Interconnection	TBD
Complete T/L Construction	TBD
FUEL SUPPLY LINE ACTIVITIES	
Start Gas Pipeline Construction and Interconnection	TBD
Complete Gas Pipeline Construction	TBD
WATER SUPPLY LINE ACTIVITIES	
Start Water Supply Line Construction	TBD
Complete Water Supply Line Construction	TBD

Note: Due to the dynamic nature of a large-scale construction project, key event dates are subject to change. TBD = To be determined.

EXHIBIT 3

CONSTRUCTION PHOTOGRAPHS

Note: See Exhibits 6 and 7 for site photos attached to the weekly SWPPP Visual Inspection Field Log Sheets and resource specialists' reports, respectively.

EXHIBIT 4

CONSTRUCTION PROGRESS REPORT

CONSTRUCTION PROGRESS REPORT

Site

- Completed weekly SWPPP inspections.
- Supported development of MCR for CEC CPM.
- Assisted with development of package to have DWD water line lowered.

Installation

Specifications

- Coordinated on-site CBO inspections.

Administrative

- CCGS established site staff office.

Civil/Structural

- None.

Mechanical

- None.

Electrical

- None.

Oakley

NONCONFORMANCE REPORT

NCR NO. 0002

Project No. 172939 Project Name Oakley Generating Station Hold Tag No. 172939-0001

References: Drawing No. 1BSU-S5605,Rev. 1 P.O. No. 71.0201 Spec No. 172939.71.0201, Sect. 03311

Part/Item Description Diesel Fire Pump Foundation [1BSU-FDNA-101] ASME? ☐ Yes ☒ No

Part/Item Location Diesel Fire Pump Foundation [1BSU-FDNA-101]

CEC Condition Number STRUC- 2/GEN-7 CBC Chapter/Section 2010 CBC Chapter 19A, Section 1905A

Nature of Nonconformity ☐ Damage ☒ Material ☐ Workmanship ☐ Other

Nonconforming Condition

Class B-1 concrete delivered to site and placed in Diesel Fire Pump Foundation [20 CY], 28 Day compressive Strength cylinders [2] broken at 3800/3850 psi for AVG. 3825 psi. Results are below specified 4000 psi for this class concrete. Breaks reported by Signet Testing Lab [Hayward, CA] on a break date of 7/19/2011. Note this concrete was also reported for a Non Conformance [Low Entrained Air], (see NCR 0001).

Reported By William Strasburg Date 7/27/11 Validated By William Strasburg Date 7/27/11

Proposed Corrective Action

[2] remaining compressive strength samples [cylinders] will be tested @ 56 days [8/16/2011]. Results will be evaluated at that time and engineering evaluation should be made based on test results and structural requirements of this slab. Investigation will be made into Central Ready Mix's batch plant/ batching practices to determine root cause of non conforming concrete. Hold tag [172939-0001] placed for NCR 0001, will remain in place until close out of this and any other subsequential and relative NCR's concerning this item. Propose utilizing a Signet Concrete Inspector at batch plant during future placements to monitor quality of concrete pre-delivery.

Proposed By William Strasburg Date 07/27/11 ☐ Minor Nonconformance ☒ Major Nonconformance

Disposition: ☐ Reject ☐ Rework ☐ Repair ☒ Use-As-Is ☐ Void

Remarks

The average 56 day break for 2 cylinders was 4265 psi which is higher than the specified 4000 psi 28 day break (See attached test results). An investigation to determine the cause of the low strength concrete was generated (See attached report by Bill Strausberg). Load test was performed on test anchor bolts to confirm adequate capacity for the required design loads (See attached test results). Hold tag to be removed.

Dispositioned by (RE) digital signature applied on page 3 Date Oct 26, 2011

Concurrence by (RM) (For All NCRs) Stephen T Fawcett Date Oct 26, 2011

Concurrence by (RM) (For Void) N/A Date

Concurrence by PEM (For Repair or Use-As-Is Disposition) Gary G. Jamison Date Oct 27,2011

Concurrence by AI (As Required by ASME Code) N/A Date N/A

Concurrence by CBO (As Required by Contra Costa County) Abed Chowdhury Date

Concurrence by CCGS (Radback/GE As Required) T. J. Chiangi Date 2011-11-02

QC Acceptance After Rework Reinspection N/A Date N/A

AI Acceptance After Reinspection N/A Date N/A

Closed Out by BVQR William F. Strasburg Date 11/21/2011

ALB, Inc.
General Contractor

CONCRETE POUR CARD

Project: Oakley Generating Station
Owner: Radback/CCGS

Project No. 172939
SPEC: CAST_IN_PLACE CONCRETE
SPEC No.: 172939.71.0201, Section 03311

Drawing/Rev Numbers 1BSU-S5605, REV. 1

Location Water Treatment Area Foundations

Pour No.	Weather and Temperature		
ALB11-001	Sunny, 76° @ 0830.	Concrete Class	B-1
		Concrete Mix No.	1EF135Z1
		Slump	4.00" +/- 0.75"
		Finish	Float
		No. of Test Cylinders	5
		% Air Entrainment	3.0% +/- 1.0%

Location ID		Estimated Quantity
1BSU-FDNA-101		18.94 cubic yards
Location/Area/Structure		Actual Quantity
Diesel Fire Pump Foundation		cubic yards

PREPLACEMENT INSPECTION	Initial	Date
Lines and grades within tolerance and in accordance with drawing.	RLT	6-11-11
Excavation located and dimensioned properly.	RLT	6-11-11
Drainage provided.	N/A	6-11-11
Weather condition – no frozen ground, mud, or standing water.	N/A	6-11-11
No soft spots or varying support materials.	N/A	
Soil compaction tests acceptable.	N/A	
Forms shored and aligned within tolerance.	RLT	6-15-11
Openings and piping and electrical penetrations verified against drawings.	N/A	
Embedded portions of piers or piles clear of dirt and mud.	N/A	
Adjoining concrete prepared, coated, or isolated.	N/A	
Chamfer and drip strips in place at correct elevation.	N/A	
Form oil applied (dowels and reinforcing not covered).	N/A	
Keyway/expansion material properly located/secured.	N/A	
Embedments/water stop sufficiently secured and in place.	N/A	
Anchor bolt material, location, size, thread protection, and support.	N/A	
Screed lines – correct location, finish, and elevation.	RLT	6-11-11
Cleanup of area to be poured.	RLT	6-11-11
REINFORCING INSPECTION		
Size of bars and grade marks.	RLT	6-11-11
Bars clean and free of dirt and debris.	RLT	6-11-11
Location, spacing, and number of bars.	RLT	6-11-11
Minimum clear cover, according to ACI 318, 7.7.1.	RLT	6-11-11
Splice locations and lap length.	RLT	6-11-11
Dowel bars – size and location.	N/A	
Chair/bar supports – correct location, size, and attachment.	RLT	6-11-11

RELEASED FOR INSPECTION		Print Name		
Civil	ALB	Bob Gonzalez	RLT	6-11-11
Surveyor	Kier Wright	Robert Gonzalez	RLT	6-11-11

RELEASED FOR PLACEMENT			
Piping		N/A	
Mechanical			
Electrical			
Engineer			
QC			

Walley, Zenis

From: Winje, Karina A. <WinjeKA@bv.com>
Sent: Monday, November 21, 2011 12:01 PM
To: Walley, Zenis
Cc: Fawcett, Steve T.; Chiangi, Tom J (GE Power & Water); Barry Bedaw (barry.bedaw@ge.com); Peacock, James (GE Energy, Non-GE); Greg Lamberg (greg.lamberg@radback.com)
Subject: RE: NCR No. 2 - CBO Concurrence Date

Friday 11/18/11.....

Karina Winje, P.E.* | Construction Manager, Black & Veatch Construction, Inc.
213-949-5139 m| winjeka @bv.com
*Licensed in California, QSD in CA
Building a World of Difference.®
Please consider the environment before printing my email Please note that the information and attachments in this email are intended for the exclusive use of the addressee and may contain confidential or privileged information. If you are not the intended recipient, please do not forward, copy or print the message or its attachments. Notify me at the above address, and delete this message and any attachments. Thank you.

-----Original Message-----
From: Walley, Zenis [mailto:zenis.walley@urs.com]
Sent: Monday, November 21, 2011 11:39 AM
To: Winje, Karina A.
Cc: Fawcett, Steve T.; Chiangi, Tom J (GE Power & Water); Barry Bedaw (barry.bedaw@ge.com); Peacock, James (GE Energy, Non-GE); Greg Lamberg (greg.lamberg@radback.com)
Subject: NCR No. 2 - CBO Concurrence Date

Hi Karina,

The CBO concurrence date is blank on the attached NCR form. Please provide the date it was signed by the CBO. Thank you.

Zenis M. Walley | Environmental Compliance Manager URS Corporation | Post Montgomery Center | One Montgomery Street, Suite 900 | San Francisco, CA 94104-4538 Direct 415.243.3743 | FAX 515.886.9261 | Cell 415.823.1493 | zenis.walley@urs.com

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POST-PLACEMENT INSPECTION

Finish	[illegible]	RG	6-21-11
Curing	Header wad cure	RG	6-21-11
Freeze Protection		RG	6-21-11

Remarks:

1) The exposed corners of the foundation shall not be chamfered.
2) See attached report concerning special inspection of subgrade.
3) 3" clearance of rebar from subgrade/2' clearance from formwork and below top of concrete.
4) Concrete shall be protected from loss of moisture for not less than 7 days after the concrete is placed. (See Paragraph 03311.3.11) *
5) See Paragraph 03311.3.17 Field Control Testing for testing/sampling requirements.

* Spray on Curing Compound to be used.

Superintendent	[signature]	Date	6-21-11
Site QA Manager	[signature]	Date	6-21-2011
Special Inspector	[signature] Jeff Bosque	Date	6/16/11
CBO Official	AM Taylor ok to pour	Date	6-16-11
CBO Official (Grading)	[signature] Foundation S.G.		6/15/2011
	[signature]		6-21-2011

Graylyn L. Garr
2011.10.26 15:56:12 -05'00'

SIGNET Testing Labs, Inc.

SIGNET TESTING LABS, INC
3121 DIABLO AVENUE
HAYWARD, CA 94545
PHONE (510) 887-8484
FAX (510) 783-4295

CONCRETE COMPRESSION TEST REPORT

PROJECT NO.	46226787	PERMIT #:	
PROJECT:	OAKLEY GENERATING STATION, PH1	APPL #:	
LOCATION:	5950 BRIDGEHEAD ROAD OAKLEY, CA 94561	File No:	

MIX DATA

Lab Number	108760	Aggregate Size	0.75
Material Type	3111-CIP CONCRETE COMPRESSION TEST	Cement factor	6.70
Supplier	CENTRAL	Spec Strength	4000 psi at 28 Days
Admixture		Spec Slump	
Mix number	1EF135Z1	Spec. Air Content	

SAMPLE DATA (ASTM C31)

Set number	1 of 1	Slump (ASTM C143)	4.75
Sample Date	06/21/2011 6:20 am	Ambient Temperature	75
Fld Inspector	JEFF BOSQUE	Sample Temperature (ASTM C1064)	79
Ticket	18344641	Air content (ASTM C173/C231)	1.20
Truck	1180	Unit Weight Fresh (ASTM C138)	

Placement Location: LOCATION # 1BSU FDNA-101

Comments:

TEST DATA (ASTM C39)

SAMPLE NO	TEST DATE	AGE	DIMESIONS (in)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRACTURE TYPE	COMPRESS STR(psi)
1	06/28	07	6.00 x 12.00	28.27	74250	1.00	LAB	4-SHEAR	2,630
2	07/19	28	6.00 x 12.00	28.27	108750	1.00	LAB	4-SHEAR	3,850
3	07/19	28	6.00 x 12.00	28.27	107500	1.00	LAB	4-SHEAR	3,800
					Average 28 day Compressive Strength:				3,825
4	08/16	56	6.00 x 12.00	28.27	124250	1.00	LAB	4-SHEAR	4,390
5	08/16	56	6.00 x 12.00	28.27	117000	1.00	LAB	4-SHEAR	4,140

MATERIAL ☑ WAS ☐ WAS NOT SAMPLED IN ACCORDANCE WITH THE APPROVED PROJECT DOCUMENTS.

MATERIAL ☐ MEETS ☑ DOES NOT MEET THE APPROVED PROJECT DOCUMENTS.

RESPECTFULLY SUBMITTED,
SIGNET TESTING LABS, INC

08/16/11

Concrete Lab Manager — Date

STATEMENT OF SEQUENCE OF EVENTS/OBSERVATIONS CONCERNING CLASS B-1 CONCRETE PLACEMENT REFERENCED IN NCR-0002 COMPILED BY THE OPC SITE QUALITY MANAGER

- On 6/21/2011 20 CY of Central Concrete Supply Class B-1 concrete placed at the Diesel Fire Pump foundation. Signet Testing Labs was present to sample concrete per the Cast-in-Place concrete specifications for the 71.0201 contract. As the site quality manager I observed the technician perform the sampling. Jeff Bosque of Signet, who is an ACI certified Concrete Field Testing Technician – Grade 1 performed the sampling. (2) 10 CY trucks were dispatched to site and placed via chute into the foundation. Per the specifications, both trucks were tested for slump. The first truck exhibited a slump of 4.75", the second truck was 3.25" [both within the tolerance of 4.00" +/- 0.75"]. Both trucks were also tested for entrained air content due to the fact that the first truck was found to be out of the specified entrained air range [3.00% +/- 1.00]. The air entrainment percentages were 1.2% [1st truck],1.3% [2nd truck]. A set of (5) cylinders were cast off the first truck for compressive strength testing [(1) 7 day break, (2) 28 day breaks and (2) hold cylinders].As mentioned above I monitored the complete testing process, I am also currently certified as an ACI certified Concrete Field Testing Technician – Grade 1, with my initial certification being obtained in 1984 and scheduled to renew my certification in October 2011. Immediately after the placement was finished I generated NCR-0001 due to the low entrained air. I called Central Concrete Supply and spoke to Mr. Herb Burton; I was told that the entrained air was low because they (Central Concrete Supply) assumed we wanted no entrained air, as that is the norm for this area. I am led to believe by this discussion that the amount of admixture for entraining air [MB-AE™90 Air Entraining Admixture (0.9 ozs. /cwt +/- 0.7)] was induced into mix at the lowest possible amount.
- On 6/22/11 I witnessed Jeff Bosque of Signet pick up the compressive strength cylinders for transport to their facility in Hayward, CA. The cylinders were loaded into a cylinder holding rack in the bed of the truck for transport.
- Between 6/22/11 and 6/24/11 there were several attempts to communicate between myself and Central Concrete Supply, generally my leaving messages with them and Central Concrete Supply [Mr. Mike Donovan] finally returning my call on Friday 6/24/11 when I was off site {Site working 4-10 days}, I asked Central to please call me back on Monday 6/27/11 when I would be back on site and have my records at hand. They did not call me back, I asked ALB Inc. [Bob Gonzalez] who was the sub-contractor who had performed the work and was responsible for purchasing the concrete to pursue the matter.
- On 6/28/11 the 7 day cylinder was tested for compressive strength, the result being a load of 74,250 and a compressive strength of 2,630psi, which I noted as being lower than I expected.
- The (2) 28 day cylinders were tested on 7/19/11, with the results being 108,750/107,500 loads and strengths of 3,850/3,800 psi for an AVG. of 3,825 psi. At this point, I generated NCR-0002 due to the failure to achieve the specified 28 day compressive strength.

- On 7/20/11 I traveled from site to the Signet Testing Lab's facility in Hayward, CA. I observed their wet cure room and the Tinius Olsen testing machine they use. The calibration on the Tinius Olsen was/is current [5/9/11 to 5/9/12] and they keep a log of uses for the disposable neoprene pads and that the pads had been changed out at 90 uses after breaking the cylinders on 7/19. Signet also has a ACI certified Strength Testing Technician who performs the testing of cylinders. Robb Wood, P.E. [Technical Manager] for this Signet Testing Labs facility showed me the remains of one of the 28 day cylinders. The cylinder exhibited signs of lack of or poor bond between the coarse aggregate and the cementitious paste. We discussed how this is sometimes the result of "dirty" aggregate, and perhaps the loader operator scraped his bucket along the ground while loading the aggregate hoppers, thusly picking up deleterious material along with the coarse aggregate and causing this effect. Signet Testing Labs has provided me with documentation ascertaining their current accreditations as well as the certifications of their technicians for their Hayward, CA facility. It was decided to break the (2) hold cylinders at 56 days [8/16/11].
- In the interim between this date and 8/16/11, I was contacted several times by ALB, Inc. [Bob Gonzalez] who had been contacted by Central Concrete Supply for information concerning Signet Testing Labs and the low strength breaks. I was informed by Mr. Gonzalez that Central Concrete Supply considered the fault to be with Signet Testing Labs sampling and casting of the cylinders, their handling of the cylinders, whether or not they had properly cured the cylinders in a wet room and whether or not they had applied proper technique when performing the compressive strength testing. I commented that I had observed the sampling/casting process, the pick of the cylinders for transport to the Signet facility and witnessed that Signet utilized a wet room. I also informed him [Bob Gonzalez] that I planned on being at Signet's facility on 8/16/11 to witness the 56 day breaks.
- I traveled to Signet's facility and witnessed the (2) 56 day compressive strength test breaks on 8/16/11. Signet installed new neoprene caps, removed the cylinders from the wet room placed and centered the cylinders in the Tinius Olsen and performed the testing, again performed by an ACI certified Strength Testing technician. The results were loads of 124,250/117,000 and compressive strength of 4,390/4,140 psi for an AVG of 4,265 psi. Robb Wood and I examined the broken cylinders which again exhibited the condition of a lack of or poor bond between the coarse aggregate and the cementitious paste.
- Based on the fact that strength above 4,000 psi was obtained we decided to close out NCR-0002 with a disposition of use as is.
- Further testing of the in-situ concrete was decided unnecessary both from a cost and schedule stand point, plus it was considered more prudent to not subject the foundation to core cutting and subsequent patching. I had previously discussed the possibility of further forensic testing with engineers at Signet, who said the testing would involve core cutting and the core samples being submitted to pictographic testing to examine the bonding issue.
- It should be noted, I have not visited the Central Concrete Supply facility in Brentwood, CA as we have not had another opportunity to place concrete at the site. However, I will have an ACI certified technician at the facility for all future concrete placements until that practice is

deemed unnecessary. I will have those technicians use both the B&V batch plant inspection checklist [converted to use OPC logo], plus Signet's batch plant/truck monitoring form to document conditions/operations at the facility during the entire duration in which concrete is batched for use on the Oakley site. I will also offer the opportunity to Central Concrete Supply to have a representative present to monitor the sampling by Signet Testing Labs if they desire to do so.

- Please reference the following attached compiled documents relative to this statement.

Statement prepared by William F. Strasburg, OPC Site Quality Manager, Oakley Generating Station 9/20/11.

CENTRAL CONCRETE SUPPLY CO., INC.
a U.S. CONCRETE COMPANY

CENTRAL CONCRETE SUPPLY CO., INC.

MAIN OFFICE:
755 Stockton Avenue,
San Jose, CA 95126
1-866-404-1000

TICKET NUMBER

18344641

WARNING: IRRITATION TO THE SKIN AND EYES: Contains Portland Cement. Wear rubber boots and gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY.

CONCRETE IS A PERISHABLE COMMODITY AND BECOMES THE PROPERTY OF THE PURCHASER UPON LEAVING THE PLANT. ANY CHANGES OR CANCELLATION OF ORIGINAL INSTRUCTIONS MUST BE TELEPHONED TO THE OFFICE BEFORE LOADING STARTS.

WE DO NOT GUARANTEE FINISHED RESULTS OBTAINED FROM THIS LOAD OF CONCRETE AS MANY IMPORTANT FACTORS AFFECTING THE ULTIMATE QUALITY OF THE COMPLETED JOB ARE OUT OF OUR CONTROL. We do not warrant that the concrete can be used in any particular environment or soil conditions or that the concrete is fit for any particular use. Selection of the mix design and/or specification of the mix design parameters are solely the responsibility of the Customer, and we assume no liability therefore.

PLEASE NOTE THIS LOAD OF CONCRETE IS PRODUCED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR READY MIX CONCRETE ASTM. ANY DE-ICING MATERIALS, IMPROPER FINISHING AND LACK OF CURING WILL CAUSE DAMAGE OR A DECREASE IN STRENGTH.

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE POURING.

LOAD RECEIVED BY:

X _____

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer – The size and weight of this truck could cause damage to the premises and/or adjacent property if this load is placed where you desire. It is our wish to help you in every way that we can, but in order to do this we are requesting that you sign this RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc., due to the delivery of this material, and that you also agree to help the driver remove mud from the wheels of his vehicle so that it will not litter the public street. Further, as additional consideration; the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED: X _____

CALIFORNIA WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

WATER ADDED AT CUSTOMER REQUEST
EXCESSIVE WATER IS DETRIMENTAL TO CONCRETE PERFORMANCE.

X _____
REQUESTOR'S NAME

SA

FULL LOAD	¾ LOAD	½ LOAD	¼ LOAD
(GALLONS)	(GALLONS)	(GALLONS)	(GALLONS)

TEST RESULTS

SLUMP	CONC. TEMP.	AIR%

CYLINDERS TAKEN: ☐ YES ☐ NO

NAME OF TESTING LAB:

CUSTOMER	CUSTOMER CODE	DELIVERY ADDRESS
H T B INC	1201550	5460 BRIDGEHAD RD. DUBLIN
PROJECT NAME	PROJECT CODE	

CUSTOMER P.O. #

CUSTOMER JOB ID #

SPECIAL INSTRUCTIONS: WILBUR-SMITH ASSOCIATES GENERATING STATION

LOAD QUANTITY	ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
10.00 yd	.0	10	TEL 3521	540LBS FT WUR		
10.00 ea	0		EENVL	364 *ENVIRONMENTAL		
10.00 ea	0		FFUEL06	UFL06 *2006 FUEL SUR		

x CYDS = Cubic yard

BATCH TIME	LEAVE PLANT	ARRIVE JOB	BEGIN POUR	FINISH POUR	LEAVE JOB	ARRIVE AT PLANT	USAGE CODE	SUB TOTAL
6:20								

TOTAL WAIT TIME	PREVIOUS TRUCK	LOAD #	SLUMP	MAP PAGE	TIME DUE ON JOB	TAX RATE	TAX
		1	4		7:00		

DATE	ORDER #	PLANT	TRUCK #	DELIVERY PROFESSIONAL	ORDER GRAND TOTAL	TOTAL
06/21/11	1006	15	1164	MENDONSA, JERRY		

DRUM REV - AT PLANT	DRUM REV - START	DRUM REV - FINISH	DEPUTY WEIGHMASTER
			Andy Marr

Weignest LSU (Brentwood Blvd, Brentwood

CONTROL #
11106672

CENTRAL CONCRETE SUPPLY CO., INC.
a U.S. CONCRETE COMPANY

CENTRAL CONCRETE SUPPLY CO., INC.

MAIN OFFICE:
755 Stockton Avenue,
San Jose, CA 95126
1-866-404-1000

TICKET NUMBER

WARNING: IRRITATION TO THE SKIN AND EYES: Contains Portland Cement. Wear rubber boots and gloves. PROLONGED CONTACT MAY CAUSE BURNS. Avoid contact with eyes and prolonged contact with skin. In case of contact with skin or eyes, flush thoroughly with water. If irritation persists, get medical attention. KEEP CHILDREN AWAY.

CONCRETE IS A PERISHABLE COMMODITY AND BECOMES THE PROPERTY OF THE PURCHASER UPON LEAVING THE PLANT. ANY CHANGES OR CANCELLATION OF ORIGINAL INSTRUCTIONS MUST BE TELEPHONED TO THE OFFICE BEFORE LOADING STARTS.

WE DO NOT GUARANTEE FINISHED RESULTS OBTAINED FROM THIS LOAD OF CONCRETE AS MANY IMPORTANT FACTORS AFFECTING THE ULTIMATE QUALITY OF THE COMPLETED JOB ARE OUT OF OUR CONTROL. We do not warrant that the concrete can be used in any particular environment or soil conditions or that the concrete is fit for any particular use. Selection of the mix design and/or specification of the mix design parameters are solely the responsibility of the Customer, and we assume no liability therefore.

PLEASE NOTE: THIS LOAD OF CONCRETE IS PRODUCED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR READY MIX CONCRETE ASTM. ANY DE-ICING MATERIALS, IMPROPER FINISHING AND LACK OF CURING WILL CAUSE DAMAGE OR A DECREASE IN STRENGTH.

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE HEALTH WARNING NOTICE AND SUPPLIER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE AND AGREE TO THE TERMS AND CONDITIONS ON REVERSE SIDE. TIME IN EXCESS OF FREE TIME WILL BE CHARGED AT CURRENT DELAY RATE. ALL C.O.D. DELIVERIES MUST BE PAID IN ADVANCE AND LOAD ACCEPTED BY SIGNING THIS DELIVERY TICKET BEFORE POURING.

LOAD RECEIVED BY:

X

PROPERTY DAMAGE RELEASE
(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer – The size and weight of this truck could cause damage to the premises and/or adjacent property if this load is placed where you desire. It is our wish to help you in every way that we can, but in order to do this we are requesting that you sign this RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur to the premises and/or adjacent property, buildings, sidewalks, drive-ways, curbs, etc. due to the delivery of this material, and that you also agree to help the driver remove mud from the wheels of his vehicle so that it will not litter the public street. Further, as additional consideration; the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED: X

CALIFORNIA WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

WATER ADDED AT CUSTOMER REQUEST
EXCESSIVE WATER IS DETRIMENTAL TO CONCRETE PERFORMANCE

X
REQUESTOR'S NAME

SA

FULL LOAD	¾ LOAD	½ LOAD	¼ LOAD
(GALLONS)	(GALLONS)	(GALLONS)	(GALLONS)

TEST RESULTS

SLUMP	CONC. TEMP.	AIR%

CYLINDERS TAKEN: ☐ YES ☐ NO

NAME OF TESTING LAB:

CUSTOMER	CUSTOMER CODE	DELIVERY ADDRESS
A. L. R. INC	1201550	5960 BRIDGEHEAD RD. OAKLEY
PROJECT NAME	PROJECT CODE	

CUSTOMER P.O. #

CUSTOMER JOB ID #

SPECIAL INSTRUCTIONS
XS WILBUR - OAKLEY - DEHYDRATING STATION

LOAD QUANTITY	ORDERED QTY	CUMULATIVE QTY	PRODUCT ID	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
10.00 YD	20	20	1EF13571	6M BS 11 NW		
10.00 EA	0		ERNVI	964 *ENVIRONMENTAL		
10.00 EA	0		EFUEL06	FUEL06 *2006 FUEL SUR		
* LOAD PUMPABLE						

BATCH TIME	LEAVE PLANT	ARRIVE JOB	BEGIN POUR	FINISH POUR	LEAVE JOB	ARRIVE AT PLANT	USAGE CODE	SUB TOTAL
7:40								

TOTAL WAIT TIME	PREVIOUS TRUCK	LOAD #	SLUMP	MAP PAGE	TIME DUE ON JOB	TAX RATE	TAX
	1180				7:50		

DATE	ORDER #	PLANT	TRUCK #	DELIVERY PROFESSIONAL	ORDER GRAND TOTAL	TOTAL
06/21/11	1000	15	1208	KINDRED, LARRY		

DRUM REV - AT PLANT	DRUM REV - START	DRUM REV - FINISH	DEPUTY WEIGHMASTER
			Andy Mary WeighMat 11911 Brentwood Blvd, Brentwood

CONTROL #
11106673

SIGNET Testing Labs

DATE: 6/21/11
STL #: 46226787
PROJECT: Oakley Generating Station
LOCATION: Oakley CA

DSA FILE/APPL. NO.
OSHPD NO.
PERMIT NO.
WEATHER: TEMP:

☐ **REBAR** ☐ **PT TENDON** ☐ **PT TENDON STRESSING**

☐ Inspected the placement of **REINFORCING STEEL / TENDONS / AB'S / HD'S / TIE DOWNS** for the following location: _____

☐ Inspected post-tensioning operations, measured and recorded elongations of strands for the following location: _____

☒ **CONCRETE** ☒ **CIP** ☐ **PC** ☐ **PT** ☐ **SHOTCRETE**

☐ Inspected the batch plant operations; batch plant report attached. Batch Plant Location: _____

☒ INSPECTED placement of / SAMPLED **CONCRETE / SHOT-CRETE** at the following location: Pour# ALB 11-001_____
Loc# 1BSU FDNA-101 at the Diesel Fire Pump Station SOG. Work was performed by ALB Construction. Concrete was supplied Central Concrete Brentwood plant.

☒ Cast 1 set(s) of compressive strength **CYLINDERS / PANEL** Mix # EF135Z1; Total cu. Yds. Placed: 20_____
Slump(s): 43/4", 31/4" Specified:4+or- ¾" Air entrainment(s):1.2%,1.3Specified:3.0 +or- 1.0%_ Unit weight(s):_____

☐ **Show up / Stand by time**. Job **canceled / Delayed** due to:_____

☐ All non-compliance items were brought to the attention of _____ at the job site.

☐ NON-COMPLIANCE REPORT ATTACHED

NOTES: Inspection was also performed by Contra Costa County _____

The above ☒ WAS ☐ WAS NOT (INSPECTED) (SAMPLED) in accordance with the _____ approved documents, plans, specifications, and regulatory requirements. (regulatory agency)

Superintendent/Representative

Inspector Printed Name/Title/Certification #

Inspector Signature

SIGNET
Testing Labs, Inc.

LAB NO.

DATE: 6/21/11
PROJECT NO.: 46226787
PROJECT: Oakley Power Station
INSPECTOR:

DSA FILE/APPL. NO.:
OSHPD NO.:
PERMIT NO.:
PO NO.:

SPECIFIC LOCATION OF LOAD: Location# 1BSU FDNA-101

☒ **CONCRETE**
CIP / PC / PT / PS
Cylinder
Core

☐ **MASONRY**
CMU / Brick
Prisms / Mortar
Grout / Core

☐ **SHOTCRETE**
Core / Panel

☐ **NON-SHRINK GROUT**

☐ **OTHER**

Supplier Central Concrete- Brentwood
Ticket # 18344641 Truck # 1180
Mix ID/Type 1EF135Z1
Design Strength (psi) _____ @ _____ days
Cement (sack/yd) _____ Max. Agg. Size (in) _____
Admixture _____

Set # 1 of 1
Time Sampled 06:20 Time Batched 07:25
Slump 43/4" Spec. Slump 4+or-1" Pen _____
Air Temp 75 Mix Temp 79
Air Content 1.2% Weather _____
Fresh Unit Weight _____ Dry Unit Weight _____

Core: _____ Diameter (in) ☐ 7-day air dry ☐ wet cure

SAMPLE	AGE	TEST DATE	DIMENSIONS	AREA	LOAD	STRENGTH	L/D	L/D STRENGTH	FRACTURE TYPE
A	7								
B	28								
C	28								
D	H								
E	H								
F									
G									
H									
I									
J									

FRACTURE TYPES: A=Cone B=Cone and Split C=Cone and Shear D=Shear E=Columnar

NOTES:

Received date: _____ Received by: _____ Tested by: _____

SIGNET
Testing Labs, Inc.

LAB NO. 108760

DATE: 6/21/11
PROJECT NO.: 46226787
PROJECT: Oakley Power Station
INSPECTOR: J Bosgm

DSA FILE/APPL. NO.:
OSHPD NO.:
PERMIT NO.:
PO NO.:

SPECIFIC LOCATION OF LOAD: Location# 1BSU FDNA-101

☒ **CONCRETE** — **CIP / PC / PT / PS**, Cylinder, Core
☐ **MASONRY** — CMU / Brick, Prisms / Mortar, Grout / Core
☐ **SHOTCRETE** — Core / Panel
☐ **NON-SHRINK GROUT**
☐ **OTHER**

Supplier Central Concrete- Brentwood
Ticket # 18344641 Truck # 1180
Mix ID/Type 1EF135Z1
Design Strength (psi) 4000 @ 28 days
Cement (sack/yd) 6.7 Max. Agg. Size (in) 3/4
Admixture

Set # 1 of 1
Time Sampled 06:20 Time Batched 07:25
Slump 43/4" Spec. Slump 4+or-1" Pen
Air Temp 75 Mix Temp 79
Air Content 1.2% Weather
Fresh Unit Weight Dry Unit Weight

Core: Diameter (in) ☐ 7-day air dry ☐ wet cure

SAMPLE	AGE	TEST DATE	DIMENSIONS	AREA	LOAD	STRENGTH	L/D	L/D STRENGTH	FRACTURE TYPE
A	7	6.28	6x12	2827	74250	2630			4
B	28	7.19							
C	28	7.19							
D	H	HOLD							
E	H	HOLD							
F									
G									
H									
I									
J									

FRACTURE TYPES: A=Cone B=Cone and Split C=Cone and Shear D=Shear E=Columnar

NOTES: Call Bill Strasburg @ 913-433-4897 with Verbal results of Breaks

Received date: Received by: Tested by:

SIGNET
Testing Labs, Inc.

SIGNET TESTING LABS, INC
3121 DIABLO AVENUE
HAYWARD, CA 94545
PHONE (510) 887-8484
FAX (510) 783-4295

CONCRETE COMPRESSION TEST REPORT

PROJECT NO.:	46226787	PERMIT #:	
PROJECT:	OAKLEY GENERATING STATION, PH1	APPL #:	
LOCATION:	5950 BRIDGEHEAD ROAD OAKLEY, CA 94561	File No:	

MIX DATA

Lab Number	:	**108760**	Aggregate Size	:	0.75
Material Type	:	3111-CIP CONCRETE COMPRESSION TEST	Cement factor	:	6.70
Supplier	:	CENTRAL	Spec Strength	:	4000 psi at 28 Days
Admixture	:		Spec. Slump	:	
Mix number	:	1EF135Z1	Spec. Air Content	:	

SAMPLE DATA (ASTM C31)

Set number	:	1 of 1	Slump (ASTM C143)	:	4.75
Sample Date	:	06/21/2011 6:20 am	Ambient Temperature	:	75
Fld Inspector	:	JEFF BOSQUE	Sample Temperature (ASTM C1064)	:	79
Ticket	:	18344641	Air content (ASTM C173/C231)	:	1.20
Truck	:	1180	Unit Weight Fresh (ASTM C138)	:	

Placement Location: LOCATION # 1BSU FDNA-101

Comments:

TEST DATA (ASTM C39)

SAMPLE NO	TEST DATE	AGE	DIMESIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRACTURE TYPE	COMPRESS STR(psi)
1	06/28	07	6.00 x 12.00	28.27	74250	1.00	LAB	4-SHEAR	2,630
2	07/19	28	6.00 x 12.00	28.27	108750	1.00	LAB	4-SHEAR	3,850
3	07/19	28	6.00 x 12.00	28.27	107500	1.00	LAB	4-SHEAR	3,800
					Average 28 day Compressive Strength:				3,825
4	08/16	56							
5	08/16	56							

MATERIAL ☑ WAS ☐ WAS NOT SAMPLED IN ACCORDANCE WITH THE APPROVED PROJECT DOCUMENTS.

MATERIAL ☐ MEETS ☑ DOES NOT MEET THE APPROVED PROJECT DOCUMENTS.

RESPECTFULLY SUBMITTED,
SIGNET TESTING LABS, INC

07/28/11

Concrete Lab Manager Date

SIGNET Testing Labs, Inc.

SIGNET TESTING LABS, INC
3121 DIABLO AVENUE
HAYWARD, CA 94545
PHONE (510) 887-8484
FAX (510) 783-4295

CONCRETE COMPRESSION TEST REPORT

PROJECT NO	46226787	PERMIT #:	
PROJECT:	OAKLEY GENERATING STATION, PH1	APPL #:	
LOCATION:	5950 BRIDGEHEAD ROAD OAKLEY, CA 94561	File No:	

MIX DATA

Lab Number	108760	Aggregate Size	0.75
Material Type	3111-CIP CONCRETE COMPRESSION TEST	Cement factor	6.70
Supplier	CENTRAL	Spec Strength	4000 psi at 28 Days
Admixture		Spec. Slump	
Mix number	1EF135Z1	Spec. Air Content	

SAMPLE DATA (ASTM C31)

Set number	1 of 1	Slump (ASTM C143)	4.75
Sample Date	06/21/2011 6:20 am	Ambient Temperature	75
Fld Inspector	JEFF BOSQUE	Sample Temperature (ASTM C1064)	79
Ticket	18344641	Air content (ASTM C173/C231)	1.20
Truck	1180	Unit Weight Fresh (ASTM C138)	

Placement Location: LOCATION # 1BSU FDNA-101

Comments:

TEST DATA (ASTM C39)

SAMPLE NO	TEST DATE	AGE	DIMESIONS (in.)	AREA (sq in)	LOAD (lbs)	CORR FACT	CURE TYPE	FRACTURE TYPE	COMPRESS STR(psi)
1	06/28	07	6.00 x 12.00	28.27	74250	1.00	LAB	4-SHEAR	2,630
2	07/19	28	6.00 x 12.00	28.27	108750	1.00	LAB	4-SHEAR	3,850
3	07/19	28	6.00 x 12.00	28.27	107500	1.00	LAB	4-SHEAR	3,800
					Average 28 day Compressive Strength:				3,825
4	08/16	56	6.00 x 12.00	28.27	124250	1.00	LAB	4-SHEAR	4,390
5	08/16	56	6.00 x 12.00	28.27	117000	1.00	LAB	4-SHEAR	4,140

MATERIAL ☑ WAS ☐ WAS NOT SAMPLED IN ACCORDANCE WITH THE APPROVED PROJECT DOCUMENTS.

MATERIAL ☐ MEETS ☑ DOES NOT MEET THE APPROVED PROJECT DOCUMENTS.

RESPECTFULLY SUBMITTED,
SIGNET TESTING LABS, INC

08/16/11

Concrete Lab Manager — Date

NONCONFORMANCE REPORT

NCR NO. 0002

Oakley POWER CONSTRUCTORS

Project No. 172939 Project Name Oakley Generating Station Hold Tag No. 172939-0001

References: Drawing No. 1BSU-S5605,Rev. 1 P.O. No. 71.0201 Spec No. 172939.71.0201, Sect. 03311

Part/Item Description Diesel Fire Pump Foundation [1BSU-FDNA-101] ASME? ☐ Yes ☒ No

Part/Item Location Diesel Fire Pump Foundation [1BSU-FDNA-101]

Nature of Nonconformity ☐ Damage ☒ Material ☐ Workmanship ☐ Other

Nonconforming Condition

Class B-1 concrete delivered to site and placed in Diesel Fire Pump Foundation [20 CY], 28 Day compressive Strength cylinders [2] broken at 3800/3850 psi for AVG. 3825 psi. Results are below specified 4000 psi for this class concrete. Breaks reported by Signet Testing Lab [Hayward, CA] on a break date of 7/19/2011. Note this concrete was also reported for a Non Conformance [Low Entrained Air], (see NCR 0001).

Reported By William Strasburg Date 7/27/11 Validated By Steve Fawcett Date 7/27/11

Proposed Corrective Action

[2] remaining compressive strength samples [cylinders] will be tested @ 56 days [8/16/2011]. Results will be evaluated at that time and engineering evaluation should be made based on test results and structural requirements of this slab. Investigation will be made into Central Ready Mix's batch plant/ batching practices to determine root cause of non conforming concrete. Hold tag [172939-0001] placed for NCR 0001, will remain in place until close out of this and any other subsequential and relative NCR's concerning this item.

Proposed By William Strasburg Date 07/27/11 ☐ Minor Nonconformance ☒ Major Nonconformance

Disposition: ☐ Reject ☐ Rework ☐ Repair ☐ Use-As-Is ☐ Void

Remarks

Dispositioned by (RE) _____ Date _____

Concurrence by (RM) (For All NCRs) _____ Date _____

Concurrence by (RM) (For Void) _____ Date _____

Concurrence by PEM (For Repair or Use-As-Is Disposition) _____ Date _____

Concurrence by AI (As Required by ASME Code) _____ Date _____

Concurrence by CBO (As Required by Contra Costa County) _____ Date _____

Concurrence by CCGS (Radback/GE As Required) _____ Date _____

QC Acceptance After Rework Reinspection _____ Date _____

AI Acceptance After Reinspection _____ Date _____

Closed Out by BVQR _____ Date _____

SIGNET TESTING LABS, INC

ACTIVE INSPECTOR QUALIFICATION MATRIX

OfficeNo	InspectorFullName	ACIF	CWI	FP	PC	RC	SM	SSB	SSW
2085	KENNETH ADAIR	X							
2085	WILLIAM BEBEAU	X				X			
2085	MICHAEL BELL	X		X		X	X		
2085	ROBERT BIGFORD	X				X			
2085	JEFF BOSQUE	X		X	X	X			
2085	HOWARD J. CHIPPERO	X							
2085	PAUL COLBY		X					X	X
2085	SCOTT J. CONOVER	X							
~~2085~~	~~CESAR RAMIREZ~~	~~X~~	~~X~~						
2085	MICHAEL DIDIER	X	X					X	X
2085	KENNETH DOMINGUEZ	X			X	X			
2085	THOMAS DOWNEY	X				X	X		
2085	DAVID PERRY	X							
2085	SCOTT EDBERG	X		X		X	X		X
2085	JEFFREY FLINT	X				X	X		X
2085	JOHN GILLESPIE	X	X	X	X	X	X	X	X
2085	ALLAN J. GOBEILLE	X		X	X	X	X		
2085	AL GUNDERSON		X	X			X	X	X
2085	JOHN KAMONYE	X							
2085	KENT DUMMERT	X		X					
2085	JOHN LINDSTROM	X			X	X	X		
2085	LUIS MAGANA	X							
2085	FREDERICK MANGRUM	X			X	X	X		
2085	JEFF MCPEEK							X	X
2085	PATRICK J. MOSKIMAN		X					X	X
2085	ZANTINO OCHOA	X							
2085	RODGER PATTERSON	X				X	X		X
2085	CHRISTOPHER PERRIN		X						
2085	ROBERT LEON	X	X			X	X	X	X
2085	SETH FITZGIBBONS	X							
2085	JOHN W. THOMPSON	X				X			
2086	MARK ANDY ATTEBERRY	X				X	X		
2086	DAVE BENZLER	X		X	X	X		X	X
2086	WILLIAM BOOTH	X	X		X	X	X	X	X
2086	DARREN DEMUTH	X		X		X	X		X
2086	KEN JOHNSON		X						
2086	HANK LODEL JR	X			X	X	X	X	X
2086	BRAD MCKEEHAN	X				X	X		X
2086	TAD PODGRUSZEWSKI	X	X	X	X	X	X		X
2086	JAMES STICKNEY	X	X			X	X		X
2086	WARREN TONY THORPE	X				X	X		

LEGEND

RC - REINFORCED CONCRETE (ICC SPEC INSPECTOR)
PC - PRESTRESSED CONCRETE (ICC SPEC INSPECTOR)
SM - STRUCTURAL MASONRY (ICC SPEC INSPECTOR)
FP - SPRAYAPPLIED FIREPROOFING(ICC SPEC INSPECTOR)
CWI - CERTIFIED WELDING INSPECTOR (AWS)
SSW - STRUCTURAL STEEL WELDING (ICC SPEC INSPECTOR)
SSB - STRUCTURAL STEEL AND BOLTING (ICC SPEC INSPECTOR)
ACIF - CONCRETE FIELD TESTING TECH(ACI)

American Association of State Highway and Transportation Officials

AASHTO Accreditation Program - Certificate of Accreditation

This is to signify that

SIGNET Testing Laboratories, Inc.

Hayward, California

has demonstrated proficiency for the testing of construction materials and has met the minimum requirements in AASHTO R18 set forth by the AASHTO Highway Subcommittee on Materials.

The scope of accreditation can be obtained by viewing the AAP Directories of Accredited Laboratories (www.nist.gov/amrl) or by contacting AMRL.

John Hurley

Executive Director

M. M. Ryan

Chair, AASHTO Highway Subcommittee on Materials

AAP®

AASHTO R18

Signet Testing Laboratories, Inc.

Hayward, California USA

AASHTO Accreditation Details

Your Quality Analyst is John Malusky. Please Contact Us with any accreditation questions.
Quality Systems - accredited since 3/15/1995
R18, C1077 (Aggregate), C1077 (Portland Cement Concrete), D3666 (Aggregate), D3666 (Hot Mix Asphalt), D3740 (Soil), E329 (Aggregate), E329 (Hot Mix Asphalt), E329 (Portland Cement Concrete), E329 (Soil)

Hot Mix Asphalt - accredited since 3/15/1995
D1560 (Stability), D1561, D2041, D2726, D3203, D4867, D5444, D6307, D6926, D6927

Soil - accredited since 4/15/1996
T236, D421, D422, D558, D559, D698, D854, D1140, D1557, D1883, D2166, D2216, D2419, D2435, D2487, D2488, D2844, D2850, D2974, D3080, D4318, D4546, D4767, D5084, D6938

Aggregate - accredited since 3/15/1995
C29, C40, C88, C117, C127, C128, C131, C136, C142, C566, C702, D546, D2419, D3744, D4791, D5821

Portland Cement Concrete - accredited since 2/15/1996
C31 (Cylinders), C39, C138, C143, C172, C173, C231, C617, C1064, C1231

Metals - accredited since 2/17/2009
A615-A370 (Carbon-Steel Bars, Deformed and Plain: Tensile Strength)
A615-E290 (Carbon-Steel Bars, Deformed and Plain: Bend Test)

Laboratory Assessment History

AMRL Assessments:

Request	Tour	Date	Assessor(s)	Report#
View Request	27	4/15/2010	Pinky Dasco Casey Soneira	805K
View Request	26	1/7/2008	Matt Kozlik Chris Breth	1168F
View Request	25	7/6/2005	Kris Edelberg	342M
View Request	22	3/1/2000	Michael McGough	905C

View Request	21	7/29/1997	Jon Sutherland	748C

12

External Assessments:

Provider	Date	Report
CCRL	9/1/2010	G-70
CCRL	4/17/2008	Z-693
CCRL	12/7/2005	F-34

Proficiency Sample Enrollment

Submit Proficiency Sample Data

Note: Your laboratory's Enrollment # is used to identify your enrollment. Please use it for any PSP correspondence.

Enrollment #1030
William Wahbeh
william_wahbeh@urscorp.com
Hayward, California
USA

View PSP Ratings Online

BAC	PGB	EML	AGC ✔	AGF ✔	HMS	HMI ✔
MAR ✔	HVM ✔	HMG	SOL ✔	RVL ✔	CBR ✔	PNT

Request Sample Change
*NOTE: Hover over acronym for full sample name.

Laboratory Details

Physical Address:

3121 Diablo Avenue Hayward, California 94545 USA Company Web Site Company Email

Laboratory Contact:

Mr. William Wahbeh
Responsible Engineer
phone1: (510) 887-8484 103
phone2: fax: (510) 732-4295
Lab Contact Email

DEPARTMENT OF THE ARMY
ENGINEER RESEARCH AND DEVELOPMENT CENTER, CORPS OF ENGINEERS
GEOTECHNICAL AND STRUCTURES LABORATORY
WATERWAYS EXPERIMENT STATION, 3909 HALLS FERRY ROAD
VICKSBURG, MISSISSIPPI 39180-6199

March 9, 2011

Reply to the Attention of:
Concrete and Materials Branch

Kin Yee
Signet Testing Laboratories, Inc.
3121 Diablo Avenue
Hayward, CA 94545

Dear Kin Yee:

In reference to your check no. 10865, dated February 16, 2011, and audit agreement, dated March 1, 2011, an audit based on your AASHTO Accreditation was performed on documents submitted by your laboratory. We examined the AMRL On-site Assessment Report No. 805K, dated May 17, 2010, the CCRL Inspection Report No. G-70, dated October 1, 2010 and the AASHTO accreditation certificate effective March 9, 2011.

Your Quality System meets the requirements of the U.S. Army Corps of Engineers. The material test methods that you are validated to perform for the U.S. Army Corps of Engineers were determined from the inspection reports from AASHTO and are as follows:

Aggregate Tests: ASTM C40, C117, C127, C128, C136, C29, C88, C123, C131, C142, C566, C702, D546, D2419, D3744, D4791, and D5821.

Bituminous Tests: ASTM D1560, D1561, D2041, D2726, D3203, D3666, D4867, D5444, D6307, D6926, D6927, and E329.

Concrete Tests: ASTM C31, C39, C138, C143, C172, C173, C231, C1064, C617, C1077, C1231, and E329.

Reinforcing Bars: Bending and Tensile Strength.

Soil Tests: ASTM D421, D422, D558, D559, D698, D854, D1140, D1557, D1883, D2166, D2216, D2419, D2435, D2487, D2488, D2844, D2850, D2974, D3080, D3740, D4318, D4546, D4767, D5084, D6938, and E329.

We will add your laboratory to the list of commercial laboratories qualified to conduct material tests for the U.S. Army Corps of Engineers; see the Materials Testing Center homepage at http://www.wes.army.mil/SL/MTC/mtc.htm. All Corps offices will be notified of this decision and will have the opportunity to use your services. Signet Testing Laboratories, Inc., Hayward, CA will remain on our list of laboratories qualified to conduct material tests until **March 9, 2013** two (2) years from the date of the audit. In the event your AASHTO accreditation is suspended in whole or part, Signet Testing Laboratories, Inc., Hayward, CA is to notify the Materials Testing Center immediately to perform a re-evaluation of your laboratory's validation. Failure to notify the Materials Testing Center will result in immediate suspension of your U.S. Army Corps of Engineers validation.

Sincerely,

Alfred B. Crawley, PE
Director, Materials Testing Center

Copy Furnished:
Drew Perry / Sacramento District

State of California • Arnold Schwarzenegger, Governor
State and Consumer Services Agency
DEPARTMENT OF GENERAL SERVICES
Division of the State Architect - Headquarters
1102 Q Street, Suite 5100 • Sacramento, CA 95814 • (916) 445-8100 • Fax (916) 445-3521
www.dsa.dgs.ca.gov

March 11, 2009

Mr. Michael Zell
Signet Testing Labs, Inc.
3121 Diablo Avenue
Hayward, CA 94545

NOTICE OF ACCEPTANCE – LEA 059

Dear Mr. Zell:

We are pleased to inform you that the Division of the State Architect (DSA) has accepted the facility referenced above into the Laboratory Evaluation and Acceptance (LEA) program.

The referenced facility may provide the construction material testing and inspection services indicated on the attached list for projects under the jurisdiction of DSA, which includes public schools (grades K-12 and community colleges) and State-owned or leased essential service buildings. LEA information for your facility will be posted on the DSA website (www.dsa.ca.gov; click on "Testing Laboratories").

This acceptance is valid until **July 11, 2011** and is contingent on continued compliance with the following LEA program requirements. Please take time to review this correspondence with members of your staff that might be unfamiliar with our requirements.

1. **Mr. William Wahbeh (RCE# 60784)** is the approved full-time engineering manager responsible for the testing and inspection services listed. You must notify DSA prior to any change in engineering managerial responsibility.
2. The facility shall continue to receive biennial on-site assessments by AASHTO Materials Reference Laboratory (AMRL) and the Cement and Concrete Reference Laboratory (CCRL) as applicable to the services offered at the facility. Please submit future reports and evidence of deficiency correction to the DSA, as they become available.
3. The facility shall maintain current participation in AMRL and CCRL proficiency sample programs. Please submit future reports and an explanation of low ratings to DSA, as they become available.
4. The facility shall maintain all test equipment and records in accordance with applicable, current American Society for Testing and Materials (ASTM) standards.
5. The facility shall provide laboratory and field testing personnel who are adequately trained, supervised and currently certified as required by the latest ASTM or other recognized standards.
6. Masonry inspectors assigned to projects under DSA jurisdiction shall have passed DSA's masonry inspector examination and be specifically approved for each project by the DSA field engineer.

7. Welding inspectors assigned to projects under DSA jurisdiction shall hold current American Welding Society (AWS) Certified Welding Inspector (CWI) or Senior CWI certification and be specifically approved for each project by the DSA field engineer.
8. The facility's Nondestructive Testing (NDT) program shall be supervised by an individual currently certified by the American Society for Nondestructive Testing (ASNT) as NDT Level III in applicable methods. Such certification shall have been obtained through ASNT by testing, not by employer or self-certification.
9. The facility's NDT written practice and procedures shall conform to the requirements of ANSI/ASNT CP-189, 2001, and be approved by the supervising Level III. All NDT technicians assigned to projects under DSA jurisdiction shall hold current level II or greater certification, in accordance with the requirements of CP-189.
10. The laboratory facility shall provide test, inspection and verified reports in accordance with the requirements of the 2001 California Building Standards Administrative Code (CBC) Title 24, Part 1. Report format shall comply with LEA Program requirements and applicable ASTM standards.
11. The physical location of the facility including but not limited to laboratory equipment and personnel shall not change without prior notification to DSA.

Please be aware that failure to comply with any of the requirements of the LEA Program may result in this acceptance being revoked. A facility with a revoked acceptance may be reinstated when it demonstrates all deficiencies cited by the DSA have been corrected.

If you wish to continue DSA acceptance beyond your current expiration date, you must submit a renewal application package at least 30 days prior to that date. The application (DSA form 100-3) and detailed instructions outlining submittal requirements can be downloaded from the DSA website. When we have received all required information, we will schedule an on-site evaluation of your facility.

Thank you for participating in the Division of the State Architect's LEA program. Should you have any questions regarding the LEA program requirements please feel free to contact me at (916) 445-2193 or e-mail me at eric.france@dgs.ca.gov .

Sincerely,

Eric H. France
Division of the State Architect
Laboratory Evaluation and Acceptance Program

cc: Division of the State Architect Regional Office
Department of General Services
Real Estate Services Division
Attn. Contracts Consultant

Attachment

Signet Testing Labs, Inc. **LEA 059**

TESTING SERVICES ACCEPTED		INSPECTION SERVICES ACCEPTED
Earthwork/Lab	Earthwork/Field	Earthwork
☒ Soils	☒ Soil Compaction	☐ Fill Placement
☒ Aggregates		☐ Foundation
☒ Asphalt Concrete		☐ Caissons/Piles
Reinforcing Steel		Reinforcing Steel
☒ Re-Bar Tension and Bend		☒ Welding
☒ Multi-Wire Strand		
☐ Chemical Analysis		Concrete
		☒ Batch Plant
Concrete		☒ Re-Bar and Concrete Placement
☒ Concrete Cylinders		☒ Pre-Stressed Concrete
☒ Concrete Cores		☒ Shotcrete
☒ Tensile Splitting		☐ Fiber Reinforced Concrete
☒ Flexural Beams		☐ Epoxy injection
☒ Shotcrete Cores		☐ Reinforced Gypsum
☒ Lightweight Concrete Fill Cores		☒ Post Installed Anchors
☒ Mix Designs		
☒ Gypsum		Masonry
☒ Post Installed Anchors		☐ Batch Plant
		☒ Masonry Placement
Masonry		☒ Post Installed Anchors
☐ Masonry Units		
☒ Mortar and Grout		Structural Metals
☒ Masonry Prisms		☒ Welding
☒ Masonry Cores		☒ High Strength Bolting
☒ Masonry Shear		☒ Spray-Applied Fireproofing
☒ Shrinkage		
		Wood
Metals/Lab	Metals Field N.D.T	☐ Light Gage Metal Plate Trusses
☐ Tension -Shapes	☒ Liquid Penetrant	☐ Glued Laminated Timber Fabrication
☒ Bend -Shapes	☒ Magnetic Particle	☐ Timber Connector Installation
☐ HS Bolt -Tension	☒ Ultrasonic	☐ Hybrid Trusses Fabrication
☒ HS Bolt -Hardness	☐ Radiographic	☐ Wood-Joists
☒ Impact		
		Other:
Roofing		
☒ Tiles		
☐ Built-Up		
Other:		
Density of SFRM		

Approved by: _____ Date: March 11, 2009

Division of the State Architect LEA Acceptance for Signet Testing Labs, Inc., LEA 059 is effective until July 11, 2011.

STATE OF CALIFORNIA-BUSINESS TRANSPORTATION AND HOUSING AGENCY

Arnold Schwarzenegger Governor

DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICES–METS
LOCAL AGENCY INDEPENDENT ASSURANCE
District 4 and Central Region
952 Goodwin Drive
Ripon CA 95366
Office (209) 599-4122
Fax (209) 599-4471

CERTIFICATE OF ACCREDITATION for a TESTING LABORATORY

Signet Testing Labs, Inc.
3121 Diablo Ave.
Hayward, CA 94545
Lorenzo Lawson, Lab Manager

The testing laboratory named above has been inspected by Certified Independent Assurance personnel and has met the requirements outlined in the Caltrans ***Independent Assurance Manual.*** This accreditation shall only be used in conjunction with a current Caltrans Form TL-0113.

This certificate is valid for a period of one (1) year from the approval date shown below. Accreditation applies only to Caltrans construction projects and/or local federal-aid projects using California Test Methods.

David R. Small, P.E. IA# 094
Local Agency Independent Assurance

Approval date: **December 20, 2010**

For:

Cathrina Barros, P.E.
Coordinator, Independent Assurance RSP

State of California Department of Transportation

QUALIFYING LABORATORIES

Form TL-0113

Expiration date:	12/20/11
Inspected by:	David Small
IA No.:	094
Phone:	916-247-7923
File: Materials Category 500	

Laboratory:	Signet Testing Labs, Inc.				
Address:	3121 Diablo Ave.				
City:	Hayward	State:	California	Zip:	94545
Lab QC Mgr.:	Lorenzo Lawson	e-mail:	Lorenzo_Lawson@URSCorp.com		
Telephone:	510-887-8484	Fax #.:	510-783-4295		

A certified independent Assurance (IA) visited this laboratory on (Date) 12/20/10
Only the equipment to be used on Caltrans construction projects and/or local construction projects using California Test Methods was checked for qualification.

At the time of qualification, this laboratory had all necessary equipment to perform the California Tests (CT) indicated below. Sampling/Testing personnel shall possess current Caltrans Form TL-0111, "Certificate of Proficiency," prior to performing any sampling or testing.

CT-105/106	CT-207	CT-227	CT-308	CT-371
CT-125 AC/Agg	CT-208	CT-231	CT-309	CT-375
CT-201	CT-216	CT-301	CT-366	CT-382
CT-202	CT-217	CT-303	CT-367	
CT-206	CT-226	CT-304	CT-370	

A visual check was performed and documents provided as necessary for the following items:

- X A written in -house Safety Program
- X A written in -house Quality Control Program
- X Copies of current (applicable) test procedures
- X Verification that the laboratory participates in Caltrans RSP correlation program
- X Test equipment summary for calibration/service of equipment
- X Calibration stickers affixed to test equipment (dated within the 12 months)
- X Personnel certifications/qualifications
- X Work experience summaries
- X Nuclear gage license

On 12/20/2010 this laboratory was qualified by David R. Small #094
Date (Printed name of IA person)

(Signature of IA person)

Mix Design #1EF135Z1 submitted by Central Concrete Supply Co., Inc. is approved as a B-1 mix class per the requirements of General Construction Specification 03316 for the Oakley Generating Station.

DIGITAL SIGNATURE	DIGITAL SIGNATURE	REGISTERED PROFESSIONAL ENGINEER GRAYLYN L. GARR C54956 CIVIL STATE OF CALIFORNIA
DIGITAL SIGNATURE	DIGITAL SIGNATURE	

OAKLEY POWER CONSTRUCTORS

CENTRAL CONCRETE SUPPLY CO., INC.
a U.S. CONCRETE COMPANY
756 STOCKTON AVE • SAN JOSE, CALIFORNIA 95126-1837
TELEPHONE (408) 293-6272 FAX (408) 404-1075

a US CONCRETE COMPANY

Westside CONCRETE MATERIALS
Supplies for the Concrete Contractor
(408) 947-8606

June 3, 2011

ALB Inc
552 West 10th St
Pittsburg, CA 94565

Oakley Generating Station
Bridgehead Road
Oakley,

Mix Design # 1EF135Z1

Below are listed current proportions for the mix as produced from the Central Concrete production facility scheduled to service the project referenced. Note that adjustments to proportions may be necessary to maintain contract performance in the case of delivery from another production location or in the event of material changes necessitated by supply issues

Mix Description : .45 W/C 4000 PSI
Design Strength : 4000 psi @ 28 Days
W/C Ratio : 0.45
Slump : 4.00 in +/-0.75

Usage : Class B1

	MATERIAL	SSD	VOLUME
CEMENT :	ASTM C-150, Type II/V	315	1.60
SLAG :	ASTM C-989, GGBFS	158	0.87
FLYASH :	ASTM C-618, Class F	157	1.09
SAND :	SAND ASTM C-33	1285	7.80
AGGREGATE :	ASTM C33 #57	1700	10.28
AIR :	3.00 % +/-1.00		0.81
WATER :	ASTM C1602-04,C1603-04	284	4.55
ADMIXTURE :		**3899**	**27.00**

ASTM C-494 TYPE A 3.0 ozs./cwt +/- 2

ASTM C-260 AIR ENTRAINMENT 0.9 ozs./cwt +/- 0.7

This mix design complies with information provided to us. It is the responsibility of the purchaser to determine whether the mix meets project requirements. Alteration to the mix may affect plastic and hardened characteristics including, but not limited to, water/cement ratio, strength, and color. Central Concrete Supply has no knowledge of or involvement in site preparation, placement, finishing or curing and accepts no responsibility for environmental and soil conditions in the specific location where the concrete is to be placed or performance of in place concrete related to vapor transmission.

*** Aggregates, ASTM C33:** In the event of limited availability of aggregates, varied combinations may be required. The volume of aggregates will be maintained and all combinations will meet ASTM C33 requirements. Weight of individual aggregates may vary to accommodate different specific gravities. Attached are the gradation reports for all aggregates that may be used on the above-mentioned project.

Testing: Compressive strength results will meet or exceed design criteria when sampled, handled, cured, transported and tested in accordance with all applicable ASTM standard procedures. For acceptance testing for specified strength:

1.) All specimens shall be stored in an environment preventing moisture loss for the specimens.

2.) The initial curing temperature range for concrete specimens with a specified design strength under 6000 psi is 60-80 degrees F. Concrete specimens with a specified design strength of 6000 psi or greater shall be initially cured between 68-78 degrees F.

Strength Results: Per ASTM C94, Sec 4.6, "The purchaser shall ensure that the manufacturer is provided copies of all reports of tests performed on concrete samples taken to determine compliance with specifications requirements. Reports shall be provided on a timely basis."

Please ensure that Central Concrete receives copies of all test reports.

Shrinkage: Where shrinkage specifications apply, Central Concrete will design mixes utilizing materials known under laboratory conditions to provide the lowest shrinkage values available at the scheduled production location. Central Concrete will provide available data to assist with compliance. Additional testing required to verify specified shrinkage values will be the responsibility of the contractor and/or owner.

Pumping: Prior to ordering, verify with the pumping contractor the pumpability of this mix in relation to its intended use.

Data for mix 1EF135Z1

1EF135Z1 : 1/1/2010 to 4/30/2011

	AIR TEMP	SLMP	7D STR.	28D STR.
MAX	88	4.25	4870	6125
MIN	52	3.50	2180	4160
NO.	29	30	30	30
MEAN	65	3.86	3239	5250
SD	10.0	0.21	662	534
COV%	15.4	5.6	20.4	10.2

DOCKET	SAMPLE	AIR TEMP	SLMP	7D STR.	28D STR.
07050709	1312		3.50	3080	5525
1449599	7277	88	4.00	3420	5240
1451886	7419	55	3.50	2230	4610
1452028	7420	57	4.00	2530	4850
1452138	7421	57	4.00	2620	4785
1452301	7422	64	3.75	2770	4675
1452377	7423	75	4.25	2180	4360
1452475	7424	75	4.00	2500	5080
1452593	7425	81	4.00	2820	5055
1452652	7426	84	4.00	2510	4665
1455364	7557	55	3.75	3430	5715
1455463	7558	55	4.00	3710	5645
1455614	7559	63	4.00	3310	5435
1455716	7560	63	4.00	2930	5160
1455873	7561	64	4.00	2470	4730
1455978	7562	79	3.50	3250	5215
1456078	7563	75	4.00	3180	5195
1457139	7640	52	4.00	2370	4160
1457308	7641	55	4.00	3310	5385
1457309	7642	57	3.50	3900	5650
1457514	7643	63	4.00	3140	4360
1457637	7644	64	3.50	3460	5355
1457747	7645	72	3.75	3420	5420
1461199	007805	55	3.75	3790	5725
1461250	007806	63	4.00	3850	5900
1461382	007807	63	3.50	4070	5985
1461515	007808	57	3.75	3900	5880
1461633	007809	73	3.75	4190	5875
1461722	007811	63	4.00	3970	5750
1461972	007812	63	4.00	4870	6125

CENTRAL CONCRETE SUPPLY CO., INC.
a U.S. CONCRETE COMPANY
755 STOCKTON AVE • SAN JOSE, CALIFORNIA 95126-1837
Phone: (408) 404-1030 Fax: (408) 404-1115

a US CONCRETE COMPANY

Westside CONCRETE MATERIALS
Supplies for the Concrete Contractor
(408) 947-8606

June 3, 2011

ALB Inc
552 West 10th St
Pittsburg CA 94565

ATTENTION: Mark Freeman

RE: Oakley Generating Station, Oakley

The statistical information provided for mix# 1EF135Z1 is an accumulation of data from test reports from local accredited labs. We find that mix# 1EF135Z1 exceeds the statistical over-design requirements for strength as defined by ACI 5.3.2.1.

ACI 318

Average Strength = 5250
Std Deviation (Ss) = 534 x 1 = 534 **(Table 5.3.1.2), adjustment if necessary.**
No. Results = 30

(Table 5.3.2.1)

F'cr	= F'c + 1.34 Ss	or	F'cr	= F'c + 2.33 Ss - 500
	= 4000 + (1.34 * 534)	or		= 4000 + (2.33 * 534) - 500
	= 4716	or		= 4744

Average strength is 5250 psi > 4744 psi, OK.

If you have any further questions on this matter, please feel free to contact me directly at the number below.

Respectfully,

Mike Donovan, PE
Manager, Technical Services

Central Concrete Supply
centralqa@us-concrete.com
PHN: (408) 404-1030
FAX: (408) 404-1115

CENTRAL CONCRETE SUPPLY CO., INC.
a U.S. CONCRETE COMPANY
755 STOCKTON AVE - SAN JOSE, CALIFORNIA 95126-1837
TELEPHONE (408) 293-6272 FAX

Westside CONCRETE MATERIALS
Supplies for the Concrete Contractor
(408) 947-8606

Mix #1EF135Z1 Chloride Calculations

Material	% Chlorides by Mass of Material	% Mass of Total Mix	% Chloride by weight of concrete
Cement	0.018293	7.98	0.001460
Slag	0.006000	4.00	0.000240
Fly Ash	0.005350	3.98	0.000213
1" x #4 Gravel	0.003605	44.33	0.001598
Concrete Sand	0.003579	32.55	0.001165
Water	0.000000	7.17	0.000000
		100.01	0.004676

Chloride content by weight of cement of raw materials:	0.0371
Chloride content by weight of cement of admixtures:	0.0027
Total chloride content by weight of cement of mix #1EF115V1	0.0398

Calculations are done in accordance with ASTM standard C1218 and the criteria set forth in ACI 318 Table 4.3.1

Prestressed Concrete	0.06
Reinforced concrete exposed to chloride in service	0.15
Reinforced concrete that will be dry or protected from moisture in service	1.00
Other reinforced concrete construction	0.30

CTL | THOMPSON
MATERIALS ENGINEERS, INC.

November 19, 2010
Revised December 1, 2010

Granite Construction Company
Stockton Branch
Box 191
Stockton, California 95201

Attention: Mr. Kentin Hill

Subject: Physical Properties Testing
Alkali Aggregate Reactivity
Granite Vernalis Concrete Sand Caltrans # 09-45783-1
Granite Vernalis 1" x #4 Caltrans # 09-45783-2
Project No. CT14924.000

Dear Mr. Hill:

This letter presents results of potential reactivity testing, performed using Granite Vernalis Concrete Sand and Granite Vernalis 1" x #4 aggregates submitted to our laboratory in November, 2009.

The mix proportions were prepared and tested, in general conformance with ASTM C 227, *"Potential Alkali Reactivity of Cement – Aggregate Combinations (Mortar-bar Method)"* and ASTM C 33 *"Standard Specification for Concrete Aggregates"*. A summary of test results are shown below and test results are presented in Attachment A.

RESULTS OF ALKALI-AGGREGATE REACTIVTY TESTING

Sample ID	Age (months)	Expansion	Classification
Granite Vernalis Concrete Sand	12	0.01%	Innocuous
Granite Vernalis 1" x #4	12	0.01%	Innocuous

ASTM C 33 *"Specification for Concrete Aggregates"* defines the potential of an aggregate – cement combination for deleterious expansion as follows:

Test Expansion	Classification	Potential for Deleterious ACR
< 0.05% at 3 months < 0.10% at 6 months	Innocuous	Low
> 0.05% at 3 months > 0.10% at 6 months	Potentially Deleterious	High

Based on these results, your aggregate-cement combinations have a low potential for deleterious expansions due to alkali-aggregate reaction. However, ASTM C 33 states that this test method may not be conservative for slowly reactive aggregates.

22 Lipan Street | Denver, Colorado 80223 | Telephone: 303-825-0777 Fax: 303-893-1568
This test report relates only to the items tested and shall not be reproduced, except in full, without written approval of CTL Thompson, Inc.

If you have any questions regarding this report, please feel free to contact us.

Respectfully submitted,

CTL | THOMPSON MATERIALS ENGINEERS, INC.

Daniel L. Barrett

Daniel L. Barrett
Materials Lab Manager

Reviewed by:

Damon B. Thomas, P.E.
Division Manager

DLB:DBT/dlb
Enclosures

via email: kentin.hill@qcinc.com

This test report relates only to the items tested and shall not be reproduced, except in full, without written approval of CTL Thompson, Inc

LEHIGH

HEIDELBERGCEMENT Group

TECHNICAL SERVICES SALES & MARKETING
12667 Alcosta Blvd., Suite 400
San Ramon, CA 94583
Telephone (925) 244-6500
FAX (925) 244-6586

PERMANENTE PLANT
24001 Stevens Creek Blvd.
Cupertino, CA 95014-5659
Telephone (408) 996-4033
FAX (408) 996-4033

CEMENT TEST REPORT

Cement: Permanente Type II V, Low Alkali; ASTM C 150-09

Production Period: March 2011 — **Report Date:** 4/11/2011

STANDARD CHEMICAL REQUIREMENTS ASTM C 114	TEST RESULTS	ASTM C 150-09 SPECIFICATIONS TYPE II	TYPE V
Silicon Dioxide (SiO_2), %	21.9	20.0 Min	---
Aluminum Oxide (Al_2O_3), %	3.9	6.0 Max	---
Ferric Oxide (Fe_2O_3), %	3.7	6.0 Max	---
Calcium Oxide (CaO), %	63.6	---	---
Magnesium Oxide (MgO), %	1.1	6.0 Max	6.0 Max
Sulfur Trioxide (SO_3), %	2.9	3.0 Max	2.3[3] Max
Loss on Ignition (LOI), %	0.8	3.0 Max	3.0 Max
Insoluble Residue, %	0.19	0.75 Max	0.75 Max
Alkalies (Na_2O equivalent), %	0.28	0.60 Max	0.60 Max
Tricalcium Silicate (C_3S), %	61		---
Dicalcium Silicate (C_2S), %	17	---	---
Tricalcium Aluminate (C_3A), %	4	8 Max	5 Max
Tetracalcium Aluminoferrite (C_4AF), %	11	---	
$2(C_3A) + C_4AF$, %	20	---	25 Max
PHYSICAL REQUIREMENTS			
(ASTM C 1038) Expansion @ 14 days, %	0.003	0.020 Max	0.020 Max
(ASTM C 452) Expansion @ 14 days, %	0.021	---	0.04 Max
(ASTM C 430) -325 Mesh, %	99.4		
(ASTM C 204) Blaine, m2/kg	345	280 Min	280 Min
(ASTM C 114) Limestone, max, %	2.5	5 Max	5 Max
(ASTM C 114) Limestone % CaCO3	81	---	
(ASTM C 114) Cement, % CO2	0.89		
(ASTM C 191) Time of Setting - Initial (Vicat)	125	45 Min	45 Min
(ASTM C 191) Time of Setting - Final (Vicat)	267	375 Max	375 Max
(ASTM C 451) False Set, %	90	50 Min	50 Min
(ASTM C 185) Air Content, %	5.9	12 Max	12 Max
(ASTM C 151) Autoclave Expansion, %	0.00	0.80 Max	0.80 Max
(ASTM C 187) Normal Consistency, %	24.7		---
(ASTM C 109) Compressive Strength, psi (MPa)			
1 Day	1691		---
3 Day	2733	1500 (10.3) Min	1160 (8.0) Min
7 Day	3752	2500 (17.2) Min	2180 (15.0) Min
28 Day (previous month)	6640	---	3050 (21.0) Min

This cement meets the requirements of specification

ASTM C 150-09 Type II-V, Low Alkali

[3] Adjusted per ASTM C 150-09 Section A1.6

Caltrans Section 90-2.01 - Type II-V Modified

ASTM C 1157 Portland Cement Type HS

Alan Salwen, Quality Control Manager

Applicable ASTM C 150 Notes:

Note B: There are cases where the optimum SO3 (using Test Method C563) for a particular cement is close to or in excess of the limit in this specification. In such cases where properties of a cement can be improved by exceeding the SO3 limit stated in this table, it is permissible to exceed the values in the table, provided it has been demonstrated by Test Method C1038 that the cement with the increased SO3 will not develop expansion in water exceeding 0.020% at 14 days. When the manufacturer supplies cement under this provision, he shall, upon request, furnish supporting data to the purchaser.

Note C: Limestone addition as per C 150-09 Item 5.1.3

LEHIGH

HEIDELBERGCEMENT Group

TECHNICAL SERVICES
SALES & MARKETING
12667 Alcosta Blvd, Suite 400
San Ramon, CA 94583
Telephone (925) 244-6562
FAX (925) 244-6586

PLANT LOCATION
Port A Harbor Road
Port of Stockton, CA 95203
Telephone (209) 465-1921
FAX (209) 465-1083

ALLCEM GGBFS (SLAG CEMENT) TEST REPORT

Specification: ASTM C 989-05 Grades 100 & 120 **Report Date:** 7-Dec-10

STANDARD CHEMICAL AND PHYSICAL REQUIREMENTS	TEST RESULTS	ASTM C 989 SPECIFICATIONS	
		Grade 100	Grade 120
Sulfur Trioxide (SO_3), %	2.17	4.0 Max	4.0 Max
Sulfur Sulfide (S),%	0.696	2.5 Max	2.5 Max
Chloride (Cl),%	<0.001	---	---
(ASTM C 204) Blaine Fineness, m^2/km	457	---	---
(ASTM C 430) 325 Mesh, % Retained	0.00	20 Max	20 Max
Density	2.92	---	---
(ASTM C 185) Air Content, %	8.3	12 Max	12 Max
SLAG ACTIVITY INDEX, %			
7 Day Individual	124	70 Min	90 Min
7 Day Average of last 5	120	75 Min	95 Min
28 Day Individual	140	90 Min	110 Min
28 Day Average of last 5	143	95 Min	115 Min
REFERENCE CEMENT			
Total Alkali, %	0.72	0.60 - 0.90	0.60 - 0.90
(ASTM C 204) Blaine Fineness, m^2/km	355	---	---
C_3S, %	59	---	---
C_2S, %	15	---	---
C_3A, %	9	---	---
C_4AF,%	7	---	---
COMPRESSIVE STRENGTH, psi			
7 Day Reference Cement	4340	---	---
28 Day Reference Cement	5560	5000 psi Min	5000 psi Min
7 Day Slag and Cement Reference	5390	---	---
28 Day Slag and Cement Reference	7810	---	---

This GGBFS meets the requirements of ASTM C 989-05 (Grade 100 and Grade 120)

Alan Sabawi, Quality Control Manager

Salt River Materials Group

PHOENIX CEMENT

Phoenix Cement Company
Attn: Chuck King
5800 Appaloosa Place
Rocklin, CA 95677

Corporate Headquarters
8800 E Chaparral Rd, Ste 155
Scottsdale, AZ 85250
Phone: 480-850-5757
Fax: 480-850-5758

Cement Manufacturing
3000 W Cement Plant Rd
Clarkdale, AZ 86324
Phone: 928-634-2261
Fax: 928-634-3543

19th Avenue Facility
1802 W Lower Buckeye Rd
Phoenix, AZ 85007
Phone: 602-253-9149
Fax: 602-253-9160

Lower Buckeye Facility
1941 W Lower Buckeye Rd
Phoenix, AZ 85009
Phone: 602-258-7798
Fax: 602-525-3362

21st Avenue Facility
1325 N 21st Avenue
Phoenix, AZ 85009
Phone: 602-254-3824
Fax: 602-254-3825

Mesa Community Storage
Dobson & McKellips
Mesa, AZ 85211
Phone: 480-990-7847

Cholla Fly Ash Facility
P O Box 380
Joseph City, AZ 86032
Phone: 928-288-1661
Fax: 928-288-1663

Four Corners Fly Ash Facility
P O Box 1007
Fruitland, NM 87416
Phone: 505-598-8657
Fax: 505-598-8633

San Juan Fly Ash Facility
San Juan Generating Station
Waterflow, NM 87421
Phone: 505-598-7546
Fax: 505-598-7547

Escalante Fly Ash Facility
CR19 / P O Box 620
Prewitt, NM 87405
Phone: 505-285-4590
Fax: 505-285-4667

Gallup Fly Ash Facility
900 1/4 N 9th St
Gallup, NM 87305

Product: Class F Fly Ash, Four Corners Fly Ash
ASTM C 618-05

POZZOLAN TEST REPORT

12-13-10 Ctl#: 48751

Lot: 6047	**Results**	**Specifications**
Chemical Analysis (C311 / C114 / D4326)		
Silicon Dioxide, SiO_2	61.01 %	---
Aluminum Oxide, Al_2O_3	24.02 %	---
Ferric Oxide, Fe_2O_3	4.59 %	
$SiO_2 + Al_2O_3 + Fe_2O_3$	89.62 %	70.00 Min
Calcium Oxide, CaO	2.26 %	---
Magnesium Oxide, MgO	0.99 %	---
Sulfur Trioxide, SO_3	0.21 %	5.00 Max
Moisture Content	0.09 %	3.00 Max
Loss on Ignition	0.27 %	5.00 Max
Available Alkalis as Na_2O	0.31 %	1.50 Max
Alkalis (%Na_2O + 0.658% K_2O)	1.90 %	---
R Factor (%CaO - 5) / (%FeO)	-0.60 %	---
Physical Analysis		
Fineness, amount retained on		
#325 sieve, % (C430)	24.10	34.00 Max
variation, points from average	0.27	5.00 Max
Density, g/cm³ (C188)	1.98	---
Variation from average, %	0.01	5.00 Max
Strength Activity Index		
with Portland Cement (C311 / C109)		
at 7 days, % of cement control	76.32	---
at 28 days, % of cement control	83.77	75.00 Min
Water Requirement (C311)		
% of cement control	96.69	105.00 Max
Soundness, autoclave expansion (C311 / C151)		
or contraction, %	0.03	0.80 Max

All tests have been made in strict accordance with the current standards of the American Society for Testing and Materials covering the type of material specified.

Lee Gorby, Quality Assurance Manager
26 JAN 2011

GRANITE

Vernalis Aggregate Plant
37400 S. Bird Rd
Tracy, CA 95304

02/24/2011

Submittal of ASTM Size #57

Pursuant to ASTM C 33 & D 448 the following is submitted for your review and acceptance:

1120-ASTM #57

Procedure	Sieve/Test	Average	Unit	ASTM 57
ASTM C136	1 1/2" (37.5mm)	100	%	100-100
	1" (25mm)	99	%	95-100
	3/4" (19mm)	80	%	
	1/2" (12.5mm)	34	%	25-60
	3/8" (9.5mm)	18	%	
	#4 (4 75mm)	1 1	%	0-10
	#8 (2 36mm)	0.5	%	0-5
ASTM C 142	Clay Lumps/Friable Particles	0.1		5 max
ASTM C123	Lightweight Pieces (Chert & Shale)	1	%	
ASTM C123	Lightweight Pieces (Coal or Lignite)	0	%	0.5 max
ASTM C117	-#200 (75um)	0.2	%	1 max
ASTM C127	Absorption	1.24	%	
ASTM C127	SPGR (Dry,Gsb)	2.617		
ASTM C127	SPGR (SSD)	2.650		
ASTM C127	SPGR (Apparent,Gsa)	2 705		
ASTM C131	LA Abrasion (B,100)	5	%	
ASTM C131	LA Abrasion (B,500)	28	%	50 max
ASTM C88	Soundness (NaSO4) Coarse	9 7	%	12 max
CT 227	CV	89		

If we can be of further assistance, please do not hesitate to contact us.

Respectfully,
GRANITE CONSTRUCTION COMPANY

Expires 12 months from date of issue

GRANITE

Vernalis Aggregate Plant
37400 S. Bird Rd.
Tracy, CA 95304

02/24/2011

Submittal of ASTM C 33 Concrete Sand

Pursuant to ASTM C 33, Standard Specification for Concrete Aggregates, the following is submitted:

1201-ASTM Concrete Sand

Procedure	Sieve/Test	Average	Unit	ASTM Concrete Sand
ASTM C136	3/8" (9.5mm)	100	%	100-100
	#4 (4.75mm)	100	%	95-100
	#8 (2.36mm)	92	%	80-100
	#16 (1.18mm)	64	%	50-85
	#30 (0.6mm)	40	%	25-60
	#50 (0 3mm)	21	%	5-30
	#100 (0.15mm)	6	%	0-10
	#200 (75um) .	1.4	%	
ASTM C123	Lightweight Pieces (Coal or Lignite)	0.4	%	0.5 max
ASTM C142	Clay Lumps/Friable Particles	0.0	%	3 max
ASTM C	FM	2.8		2.3 – 3.1
ASTM C117	-#200 (75um)	1.5	%	3 max
ASTM C128	Absorption	1.80	%	
ASTM C128	SPGR (Dry,Gsb)	2.583		
ASTM C128	SPGR (SSD)	2.629		
ASTM C128	SPGR (Apparent,Gsa)	2.709		
ASTM C88	Soundness (NaSO4) Fine	8 6	%	10 max
ASTM D2419	SE	80	%	
ASTM C40	Organic Impurities	1		3 max
ASTM D4972	pH	6 48		

If we can be of further assistance, please do not hesitate to contact us.

Respectfully,
GRANITE CONSTRUCTION COMPANY

Expires 12 months from date of issue

BASF

The Chemical Company

July 6, 2010

Central Concrete Supply
755 Stockton Avenue
San Jose, California 95126

Project: All Projects
Project location: Northern California

Certificate of Conformance
Pozzolith® 322 N
BASF Construction Chemicals, LLC* Admixture for Concrete

(*Previously doing business as BASF Admixtures, Inc and prior to that as Degussa Admixtures, Inc. and Master Builders, Inc.)

I, Richard Hubbard, Sr. Technical Marketing Specialist for BASF Construction Chemicals, LLC , Cleveland, Ohio,certify:

That Pozzolith 322 N is a BASF Construction Chemicals, LLC Water-Reducing Admixture for concrete; and

That no calcium chloride or chloride based ingredient is used in the manufacture of Pozzolith 322 N; and

That Pozzolith 322 N, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.00024 percent (2.4 ppm) chloride ions by weight of the cement when used at the rate of 65 mL per 100 kg (1 fluid ounce per 100 pounds) of cement; and

That Pozzolith 322 N meets the requirements for a Type A, Water-Reducing Admixture specified in ASTM C 494, Corps of Engineers' CRD-C 87 and AASHTO M194, the Standard Specifications for Chemical Admixtures for Concrete.

Richard Hubbard III

Richard Hubbard
Sr. Technical Marketing Specialist BASF Construction Chemicals, LLC

BASF Construction Chemicals, LLC
23700 Chagrin Boulvard
Cleveland, OH 44122
216 839-7500 ph
www.masterbuilders.com

Master Builders
Admixture Solutions

BASF
The Chemical Company

3 | 03 30 00 Cast-in-Place Concrete | 03 40 00 Precast Concrete | 03 70 00 Mass Concrete | Product Data

POZZOLITH® 322 N

Water-Reducing Admixture

Description

Pozzolith 322 N ready-to-use, liquid admixture is used for making more uniform and predictable quality concrete. It meets ASTM C 494/C 494M requirements for Type A water-reducing, Type B retarding, and Type D retarding and water-reducing admixtures.

Applications

Recommended to use in:

- Prestressed concrete
- Precast concrete
- Reinforced concrete
- Shotcrete
- Lightweight or standard weight concrete
- Pumped concrete
- 4x4™ Concrete
- Pervious Concrete
- Rheodynamic® Self-Consolidating Concrete (SCC)

Features

- Reduced water content required for a given workability
- Normal setting characteristics

Benefits

- Improved workability
- Reduced segregation
- Superior finishing characteristics for flatwork and cast surfaces
- Increased compressive and flexural strength

Performance Characteristics

Mix Data: 400 lb/yd³ (237 kg/m³) of Type I cement; slump 5 inches (125 mm); non-air-entrained concrete; concrete temperature 76 °F (24 °C); ambient temperature 74 °F (23 °C).

Setting Time

Mix Design	Initial Set (h:min)	Difference (h:min)
Plain Concrete	5:20	REF
Pozzolith 322 N admixture @		
3 fl oz/cwt (195 mL/100 kg)	5:15	-0:05
5 fl oz/cwt (325 mL/100 kg)	5:40	+0:20
7 fl oz/cwt (460 mL/100 kg)	6:20	+1:00

Compressive Strength

	7 Days			28 Days		
Mix Design	psi	MPa	%	psi	MPa	%
Plain Concrete	2150	14.8	100	3070	21.2	100
Pozzolith 322 N admixture @						
3 fl oz/cwt (195 mL/100 kg)	2820	19.4	131	3970	27.4	129
5 fl oz/cwt (325 mL/100 kg)	3160	21.8	147	4100	28.3	134
7 fl oz/cwt (460 mL/100 kg)	3190	22.0	148	4390	30.3	143

Note: The data shown is based on controlled laboratory tests. Reasonable variations from the results shown here may be experienced as a result of differences in concrete-making materials and jobsite conditions.

Setting time of concrete is influenced by the chemical and physical composition of the basic ingredients of the concrete, the temperature of the concrete and the climatic conditions. Trial mixes should be made with job site materials to determine the dosage required for specified setting time and a given strength requirement.

Master Builders

Product Data: POZZOLITH® 322 N

Guidelines for Use

Dosage: Pozzolith® 322 N admixture is recommended for use within a range of 3-7 fl oz/cwt (195-460 mL/100 kg) of cement for most concrete mixtures using average concrete ingredients. Because of variations in job conditions and concrete materials, dosages other than the recommended amounts may be required. In such cases, contact your local BASF Construction Chemicals representative.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: Pozzolith 322 N admixture will neither initiate nor promote corrosion of reinforcing steel in concrete. This admixture does not contain intentionally-added calcium chloride or other chloride-based ingredients.

Compatibility: Pozzolith 322 N admixture may be used in combination with any BASF Construction Chemicals admixtures. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mix.

Storage and Handling

Storage Temperature: If Pozzolith 322 N admixture freezes, thaw at temperatures above 35 °F (2 °C) and completely reconstitute by mild mechanical agitation. ***Do not use pressurized air for agitation.***

Shelf Life: Pozzolith 322 N admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your BASF Construction Chemicals representative regarding suitability for use and dosage recommendations if the shelf life of Pozzolith 322 N admixture has been exceeded.

Packaging

Pozzolith 322 N admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Material Safety Data Sheets: Pozzolith 322 N admixture.

Additional Information

For additional information on Pozzolith 322 N admixture, contact your BASF Construction Chemicals representative.

The Admixture Systems business of BASF Construction Chemicals is a leading provider of innovative additives for specialty concrete used in the ready mix, precast, manufactured concrete products, underground construction and paving markets throughout the NAFTA region. The Company's respected Master Builders brand products are used to improve the placing, pumping, finishing, appearance and performance characteristics of concrete.

BASF Construction Chemicals, LLC
Admixture Systems
www.masterbuilders.com
United States 23700 Chagrin Boulevard, Cleveland, Ohio 44122-5544 ■ Tel: 800 628-9990 ■ Fax: 216 839-8821
Canada 1800 Clark Boulevard, Brampton, Ontario L6T 4M7 ■ Tel: 800 387-5862 ■ Fax: 905 792-0651

Master Builders

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BASF

The Chemical Company

July 6, 2010

Central Concrete Supply
755 Stockton Avenue
San Jose, California 95126

Project: All Projects
Project location: Northern California

Certificate of Conformance
MB-AE™ 90
BASF Construction Chemicals, LLC* Air-Entraining Admixture for Concrete

(*Previously doing business as BASF Admixtures, Inc. and prior to that as Degussa Admixtures, Inc. and Master Builders, Inc.)

I, Richard Hubbard, Sr. Technical Marketing Specialist for BASF Construction Chemicals, LLC , Cleveland, Ohio,certify:

That MB-AE 90 is a BASF Construction Chemicals, LLC Air-Entraining Admixture for concrete; and

That no calcium chloride or chloride based ingredient is used in the manufacture of MB-AE 90; and

That MB-AE 90, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.000068 percent (0.68 ppm) chloride ions by weight of the cement when used at the rate of 65 mL per 100 kg (1 fluid ounce per 100 pounds) of cement; and

That MB-AE 90 meets the requirements of ASTM C 260, Corps of Engineers' CRD-C 13 and AASHTO M154, the Standard Specifications for Air-Entraining Admixtures for Concrete.

Richard Hubbard III

Richard Hubbard
Sr. Technical Marketing Specialist BASF Construction Chemicals, LLC

BASF Construction Chemicals, LLC
23700 Chagrin Boulvard
Cleveland, OH 44122
216 839-7500 ph
www.masterbuilders.com

Master Builders
Admixture Solutions

BASF

The Chemical Company

3 | 03 30 00 03 40 00 03 70 00 | Product Data Cast-in-Place Concrete Precast Concrete Mass Concrete

MB-AE™ 90

Air-Entraining Admixture

Description

MB-AE 90 air-entraining admixture is for use in concrete mixtures. It meets the requirements of ASTM C 260, AASHTO M 154 and CRD-C 13.

Applications

Recommended for use in:

- Concrete exposed to cyclic freezing and thawing
- Production of high-quality normal or lightweight concrete (heavyweight concrete normally does not contain entrained air)

Features

- Ready-to-use in the proper concentration for rapid, accurate dispensing

Benefits

- Improved resistance to damage from cyclic freezing and thawing
- Improved resistance to scaling from deicing salts
- Improved plasticity and workability
- Reduced permeability – increased watertightness
- Reduced segregation and bleeding

Performance Characteristics

Concrete durability research has established that the best protection for concrete from the adverse effects of freezing and thawing cycles and deicing salts results from: proper air content in the hardened concrete, a suitable air-void system in terms of bubble size and spacing, and adequate concrete strength, assuming the use of sound aggregates and proper mixing, transporting, placing, consolidation, finishing and curing techniques. MB-AE 90 admixture can be used to obtain adequate freeze-thaw durability in a properly proportioned concrete mixture, if standard industry practices are followed.

Air Content Determination: The total air content of normal weight concrete should be measured in strict accordance with ASTM C 231, "Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method" or ASTM C 173/C 173M, "Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method." The air content of lightweight concrete should only be determined using the Volumetric Method. The air content should be verified by calculating the gravimetric air content in accordance with ASTM C 138/C 138M, "Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete." If the total air content, as measured by the Pressure Method or Volumetric Method and as verified by the Gravimetric Method, deviates by more than 1-1/2%, the cause should be determined and corrected through equipment calibration or by whatever process is deemed necessary.

Guidelines for Use

Dosage: There is no standard dosage for MB-AE 90 admixture. The exact quantity of air-entraining admixture needed for a given air content of concrete varies because of differences in concrete-making materials and ambient conditions. Typical factors that might influence the amount of air entrained include: temperature, cementitious materials, sand gradation, sand-aggregate ratio, mixture proportions, slump, means of conveying and placement, consolidation and finishing technique.

Master Builders

The amount of MB-AE 90 admixture used will depend upon the amount of entrained air required under actual job conditions. In a trial mixture, use 1/4 to 4 fl oz/cwt (16-260 mL/100 kg) of cementitious material. Measure the air content of the trial mixture, and, if needed, either increase or decrease the quantity of MB-AE 90 admixture to obtain the desired air content.

In mixtures containing water-reducing or set-control admixtures, the amount of MB-AE 90 admixture needed may be somewhat less than the amount required in plain concrete.

Due to possible changes in the factors that can affect the dosage of MB-AE 90 admixture, frequent air content checks should be made during the course of the work. Adjustments to the dosage should be based on the amount of entrained air required in the mixture at the point of placement.

If an unusually high or low dosage of MB-AE 90 admixture is required to obtain the desired air content, consult your BASF Construction Chemicals representative. In such cases, it may be necessary to determine that, in addition to a proper air content in the fresh concrete, a suitable air-void system is achieved in the hardened concrete.

Dispensing and Mixing: Add MB-AE 90 admixture to the concrete mixture using a dispenser designed for air-entraining admixtures, or add manually using a suitable measuring device that ensures accuracy within plus or minus 3% of the required amount.

For optimum, consistent performance, the air-entraining admixture should be dispensed on damp, fine aggregate. If the concrete mixture contains fine lightweight aggregate, field evaluations should be conducted to determine the best method to dispense the air-entraining admixture.

Precaution

In a 2005 publication from the Portland Cement Association (PCA R&D Serial No. 2789), it was reported that problematic air-void clustering that can potentially lead to above normal decreases in strength was found to coincide with late additions of water to air-entrained concretes. Late additions of water include the conventional practice of holding back water during batching for addition at the jobsite. Therefore, caution should be exercised with delayed additions of water to air-entrained concrete. Furthermore, an air content check should be performed after any post-batching addition to an air-entrained concrete mixture.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MB-AE 90 admixture will neither initiate nor promote corrosion of reinforcing and prestressing steel embedded in concrete, or of galvanized floor and roof systems. No calcium chloride or other chloride-based ingredients are used in the manufacture of this admixture.

Compatibility: MB-AE 90 admixture may be used in combination with any BASF Construction Chemicals admixture, unless stated otherwise on the data sheet for the other product. When used in conjunction with other admixtures, each admixture must be dispensed separately into the concrete mixture.

Storage and Handling

Storage Temperature: MB-AE 90 admixture should be stored and dispensed at 31 °F (-0.5 °C) or higher. Although freezing does not harm this product, precautions should be taken to protect it from freezing. If MB-AE 90 admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. ***Do not use pressurized air for agitation.***

Shelf Life: MB-AE 90 admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your BASF Construction Chemicals representative regarding suitability for use and dosage recommendations if the shelf life of MB-AE 90 admixture has been exceeded.

Safety: Chemical goggles and gloves are recommended when transferring or handling this material.

Packaging

MB-AE 90 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Material Safety Data Sheets: MB-AE 90 admixture.

Additional Information

For additional information on MB-AE 90 admixture, or its use in developing a concrete mixture with special peformance characteristics, contact your BASF Construction Chemicals representative.

The Admixture Systems business of BASF Construction Chemicals is a leading provider of innovative additives for specialty concrete used in the ready mix, precast, manufactured concrete products, underground construction and paving markets throughout the NAFTA region. The Company's respected Master Builders brand products are used to improve the placing, pumping, finishing, appearance and performance characteristics of concrete.

BASF Construction Chemicals, LLC
Admixture Systems
www.masterbuilders.com
United States 23700 Chagrin Boulevard, Cleveland, Ohio 44122-5544 ■ Tel: 800 628-9990 ■ Fax: 216 839 8821
Canada 1800 Clark Boulevard, Brampton, Ontario L6T 4M7 ■ Tel: 800 387-3862 ■ Fax: 905 792-0651

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Master Builders

SIGNET
Testing Labs, Inc.

DATE: 10-24-11
PROJECT NO. 46226787
PROJECT: Oakley Generating Station, PH 1
LOCATION: Oakley

DSA FILE/APPL. NO
OSHPD NO
PERMIT NO
WEATHER: TEMP:

☒ **PROOF LOAD** ☐ **TORQUE** ☒ **WITNESSING**

☒ Testing was performed on the following items All tests were performed with the following calibrated equipment:
RAM: 100508 GAGE: #2 TORQUE WRENCH:
RAM: GAGE: TORQUE WRENCH:

LOCATION OF TEST	TYPE / SIZE	# TESTED	% of TOTAL	LOAD lb or Ft Lbs	GAGE (PSI)	# ACC	# REJ.	# RETEST
On the Diesel Fire pump foundation 12" in from each corner (typ.) South & West corners for the SW location & North & East for the NE location.	5/8" wedge Anchor (Hilti)	2	100	8000	3000	2	0	NA

☐ Type of **epoxy / grout** used: Method of application / cleaning:
☒ Visual inspection was performed on embedment, cleanliness of holes, & torque.

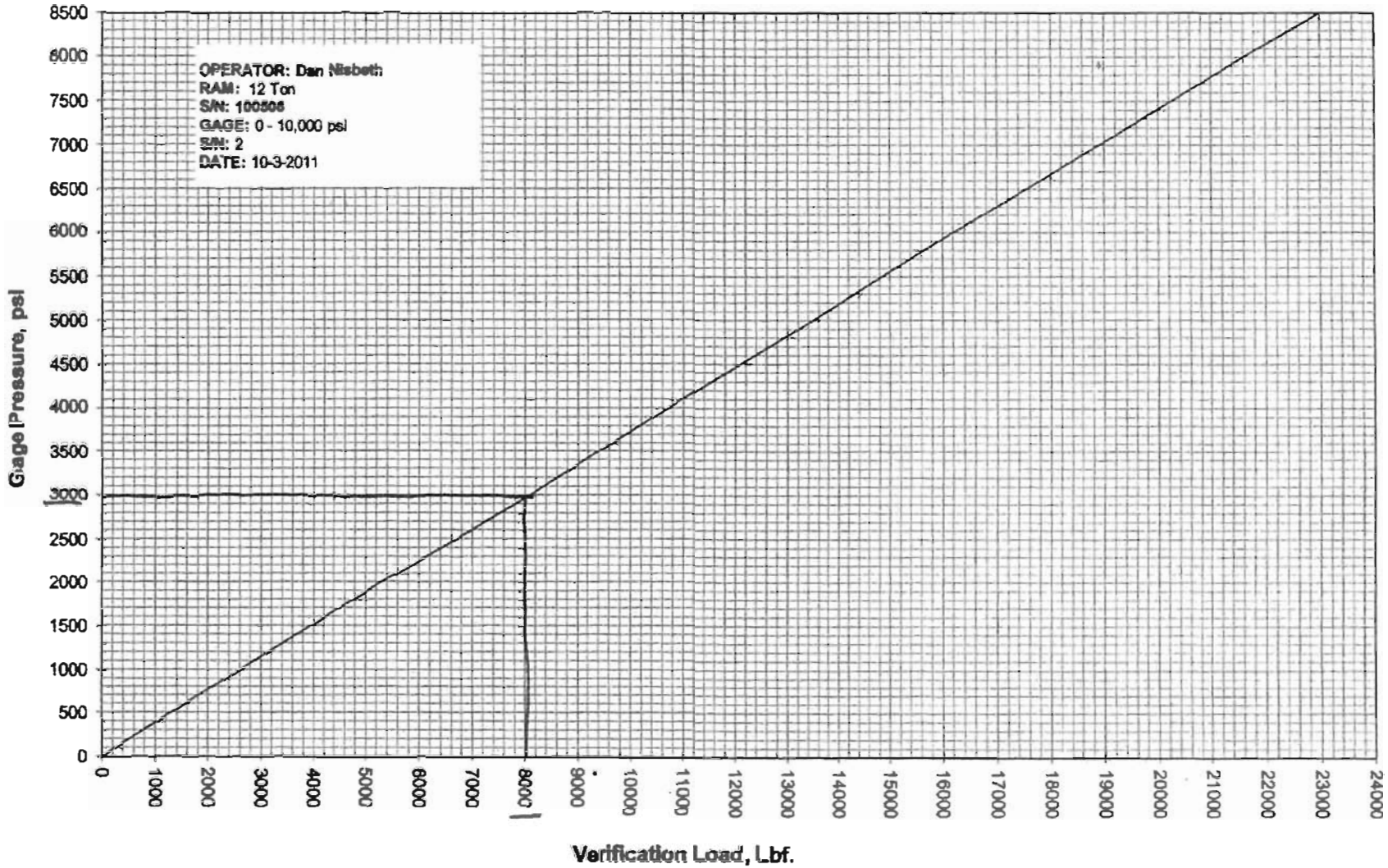
☐ **Show up / Stand by time.** Job **Canceled / Delayed** due to:
☐ All non-compliance items were brought to the attention of: at the job site.

☐ NON-COMPLIANCE REPORT ATTACHED ☐ ADDITIONAL TESTS ATTACHED

NOTES:
The holes were drilled 5" deep, the Anchors bottomed out, holes brushed & blown out with a vacuum, & anchors were torqued to 60 ft lbs.
Hilti anchors were KB-TZ 5/8" x 8 1/2" # 387518
Lot # KB3201000261

To the best of my knowledge, the above **WAS / WAS NOT** performed in accordance with the approved plans, specifications, and regulatory requirements

Superintendent/Representative: 10-24-2011
Inspector:


OPERATOR: Dan Nisbeth
RAM: 12 Ton
S/N: 100506
GAGE: 0 - 10,000 psi
S/N: 2
DATE: 10-3-2011
Gage Pressure, psi
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
13000
14000
15000
16000
17000
18000
19000
20000
21000
22000
23000
24000
Verification Load, Lbf.

8 Kips

OAKLEY GENERATING STATION PROJECT (09-AFC-4)

NON-CONFORMANCE REPORT (NCR) LOG

CIVIL-3, GEN-7 and STRUCTURAL-2

NCR No.	Preparer/ Department	Issued Date	Responsible Department	Schedule Close Date	Actual Close Date	Remarks
0001	WFS/Site QC - OPC	6/21/2011	Civil/Engineering	7/30/2011	9/06/2011	Low entrained air in Class B-1 concrete placed at diesel fire pump foundation.
0002	WFS/Site QC - OPC	7/27/2011	Civil/Engineering	8/31/2011	11/21/11	Low 28-day compressive strength in Class B-1 concrete placed at diesel fire pump foundation cylinders.
0003						
0004						
0005						
0006						
0007						
0008						
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0011						
0012						
0013						
0014						
0015						
0016						
0017						
0018						
0019						
0020						
0021						

EXHIBIT 5

CORRESPONDENCE, FILINGS OR PERMITS ISSUED BY OTHER GOVERNMENTAL AGENCIES

CCGS LLC
PO Box 1690
Danville, CA 94526

November 14, 2011

Mr. Craig Hoffman, CPM
(09-AFC-4C)
California Energy Commission
1516 Ninth Street (MS-2000)
Sacramento, CA 95814

SUBJECT: Oakley Generating Station (09-AFC-4C)
SOIL&WATER-2 Correspondence with the State Water Resources Control Board

Dear Mr. Hoffman:

Please find attached the State Water Resources Control Board (SWRCB) correspondence for the Oakley Generating Station Project, which includes the completed Notice of Intent (NOI) Forms, the Fee Statement (Application ID#: 414568), the NOI approval, and the Waste Discharge Identification Number (WDID#: 5S07C361170). The documents have been submitted for staff review, in accordance with Condition of Certification SOIL&WATER-2.

If you have any questions regarding this submittal, please do not hesitate to contact me at (916) 799-9463 or Zenis Walley at (415) 243-3743.

Sincerely,

Greg Lamberg
CCGS LLC
Senior Vice President

Attachment: Notice of Intent Materials
SWRCB Fee Statement
NOI Approval and WDID No.

cc:	J. McLucas	CCGS LLC
	M. Trask	CH2M HILL
	T. Chiangi	Oakley Project Director
	B. Bedaw	EHS Project Leader
	Z. Walley	CCGS Env. Compliance Manager

State Water Resources Control Board

NOTICE OF INTENT

GENERAL PERMIT TO DISCHARGE STORM WATER
ASSOCIATED WITH CONSTRUCTION ACTIVITY
(WQ ORDER No. 2009-0009-DWQ)

WDID: 5S07C361170

Risk Level: Level1

Property Owner Information

Name: Contra Costa Generating Station LLC
Address: PO Box 1690
Address 2:
City/State/Zip: Danville CA 94526

Type: Private Business
Contact Name: Bryan Bertacchi
Title: CEO
Phone #: 925-820-5222
Email: bryan.bertacchi@radback.com

Contractor/Developer Information

Name: Contra Costa Generating Station LLC
Address: PO Box 1690
Address 2:
City/State/Zip: Danville CA 94526

Contact Name: Bryan Bertacchi
Title: CEO
Phone #: 925-820-5222
Email: bryan.bertacchi@radback.com

Construction Site Information

Site Name: Oakley Generating Station
Address: 5950 Bridgehead Road
City/State/Zip: Oakley CA 94561
County: Contra Costa
Latitude: 38.0122 Longitude: -121.7505
Total Size of Construction Area: 77.63
Total Area to be Disturbed: 59.35

Contact Name: Bryan Bertacchi
Title: CEO
Site Phone #: 925-820-5222
Email: bryan.bertacchi@radback.com

Construction Start: June 01, 2011
Complete Grading: June 01, 2012
Final Stabilization: April 01, 2013

Risk Values

R: 48.5 K: 0.28 LS: 0.37

Beneficial Uses/303(d): No

Type of Construction: *Utility: Electric Power Plant

Receiving Water:

Qualified SWPPP Developer: Gary Graening

Certification #:

RWQCB Jurisdiction: Region 5S - Sacramento

Phone: 916-464-3291

Email: r5s_stormwater@waterboards.ca.gov

Certification

Name Bryan Bertacchi

Date: May 31, 2011

Title: President

Linda S. Adams

Secretary for Environmental Protection

State Water Resources Control Board

Division of Water Quality
1001 I Street • Sacramento, California 95814 • 1-866-563-3107
Mailing Address: P.O. Box 1977 • Sacramento, California • 95812-1977
FAX (916) 341-5543 • http://www.waterboards.ca.gov

Edmund G. Brown Jr.

Governor

May 31, 2011

Fee Statement
Application Id # 414568

Facility/Site
Oakley Generating Station
5950 Bridgehead Road
Oakley CA 94561

Thank you for submitting the Permit Registration Documents (PRD) for the facility/site referenced above. Before a WDID number is assigned an Application Fee of $2,001.00 must be received by August 07, 2011 .If the Storm Water Section does not receive your application fee of $2,001.00 by August 07, 2011 your PRDs will be returned.

Please make checks payable to: SWRCB

Mail this Fee Statement with an original signature and $2,001.00 to:

Regular Mailing Address:
SWRCB
Storm Water Section
PO Box 1977
Sacramento, CA 95812-1977

Overnight Mailing Address:
SWRCB
Storm Water Section
1001 I Street – 15th Floor
Sacramento, CA 95814

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____

Printed Name - Title

_____

Signature

Linda S. Adams
Secretary for Environmental Protection

State Water Resources Control Board

Division of Water Quality
1001 I Street Sacramento, California 95814 (866) 563 3107
Mailing Address: P.O. Box 1977 Sacramento, California 95812-1977
FAX (916) 341-5543 Internet Address: http://www.waterboards.ca.gov
Email Address: stormwater@waterboards.ca.gov

Edmund G. Brown Jr.
Governor

Approved Date: June 08, 2011

Bryan Bertacchi
Contra Costa Generating Station LLC
PO Box 1690
Danville CA 94526

RECEIPT OF YOUR NOTICE OF INTENT (NOI)

The State Water Resources Control Board (State Water Board) has received and processed your NOI to comply with the terms of the General Permit to Discharger Storm Water Associated with Construction Activity. Accordingly, you are required to comply with the permit requirements.

The Waste Discharger Identification (WDID) number is: **5S07C361170**. Please use this number in any future communication regarding this permit.

	SITE DESCRIPTION
OWNER:	Contra Costa Generating Station LLC
DEVELOPER:	Contra Costa Generating Station LLC
SITE INFORMATION:	Oakley Generating Station 5950 Bridgehead Road Oakley
TOTAL DISTURBED ACRES:	59.35
START DATE:	June 01, 2011
COMPLETION DATE:	April 01, 2013
COUNTY:	Contra Costa

When the Owner changes , a new NOI, site map, and fee must be submitted by the new Owner. As the previous owner, you are required to submit a Notice of Termination (NOT) to the local Regional Water Board stating you no longer own or operate the Site and coverage under the General Permit is not required. Unless notified, you will continue and are responsible to pay the annual fee invoiced each April.

If you have any questions regarding permit requirements, please contact your Regional Water Board at 916-464-3291 . Please visit the storm water web site at http://www.waterboards.ca.gov/water_issues/programs/stormwater/ to obtain an NOT and other storm water related information and forms.

Sincerely,

Storm Water Section
Division of Water Quality

Wetland E conservation enhancement plan proposed for the project, the drain will be blocked. The Antioch Terminal is located south of Wetland E. Currently, overland flow from the Antioch Terminal travels in a northerly direction into Wetland E via sheet flow. This flow regime will be interrupted due to the construction of the access road between the Antioch Terminal and Wetland E. To allow flow to continue, a culvert will be installed in the access road that will capture the flow from the Antioch Terminal area and direct it to the proposed detention pond that will be located adjacent to Wetland E. If additional run-on is identified during construction activities, a SWPPP amendment will be completed, if needed, which will explain the control methods of site run-on and the BMPs used for control. The BMP maps would also be updated as part of the amendment.

2.3 Findings of the Construction Site Sediment and Receiving Water Risk Determination

This General Permit establishes three levels of risk possible for a construction site. Risk is calculated in two parts: (1) project sediment risk (the relative amount of sediment that can be discharged, given the project and location details) and (2) receiving water risk (the risk sediment discharges pose to the receiving waters). The OGS site has been determined to be a Risk Level 1 site based on the construction site sediment and receiving water risk determination.

2.3.1 Sediment Risk

Project Sediment Risk is determined by multiplying the R, K, and LS factors from the Revised Universal Soil Loss Equation (RUSLE) to obtain an estimate of project-related bare ground soil loss expressed in tons/acre.

The RUSLE equation is as follows:

$$A = (R)(K)(LS)(C)(P)$$

Where: A = the rate of sheet and rill erosion
R = rainfall-runoff erosivity factor
K = soil erodibility factor
LS = length-slope factor
C = cover factor (erosion controls)
P = management operations and support practices (sediment controls)
The C and P factors are given values of 1.0 to simulate bare ground conditions.

The map option was used for this project. For the map option, the R factor for the project is calculated using the online calculator on the EPA NPDES website.[4]

[4] http://cfpub.epa.gov/npdes/stormwater/LEW/lewCalculator.cfm

To determine soil loss in tons per acre, the discharger multiplies the R factor times the value for K times LS from the map. The R factor (rainfall erosivity) was obtained from inputing latitude and longitude and the project construction dates into the online EPA NPDES Rainfall Erosivity calculator. The result was an R factor of 48.5 (Appendix F). Using the calculator provided in the SMARTS permit registration process, the Length/Slope (LS) Factor Map and the Soil Erodibility (K) Factor were calculated as 0.37 and 0.28, respectively

R= 48.5
K= 0.28
LS= 0.37

Watershed Erosion Estimate= (48.5) (0.28) (0.37) = 5.02 = **LOW Sediment Risk Factor.**

2.3.2 Receiving Water Risk

Receiving water risk as defined in the General Permit is based on whether a project drains to a sediment-sensitive water body. A sediment-sensitive water body is either on the most recent 303d list for water bodies impaired by sediment; has an EPA-approved Total Maximum Daily Load implementation plan for sediment; or has the beneficial uses of COLD, SPAWN, and MIGRATORY. The San Joaquin River is not listed on the State Board 303d list as a sediment impaired water body, and does not have an EPA-approved Total Maximum Daily Load implementation plan for sediment. The San Joaquin River does have beneficial uses of COLD, SPAWN and MIGRATORY but not in the stretch of river near the project location. These beneficial uses are designated on the San Joaquin River several miles south of the project site from Friant Dam to Mendota Pool, sources to Millerton Lake, Mendota Dam to Sack Dam, Mouth of Merced River to Vernalis, and Sack Dam to Merced River.[5]

A project that meets at least one of the three criteria has a high receiving water risk. However, the OGS project does not meet any of the above listed criteria, and therefore has a **LOW Receiving Water Risk.**

Because the OGS project has a low sediment risk and a low receiving risk, OGS is required to comply with all Risk Level 1 requirements in Attachment D of the General Permit.

2.4 Construction Schedule

Construction of the generating facility, from site preparation and grading to commercial operation is expected to take place from the first quarter of 2011 to the fourth quarter of 2013 (33 months total). A more detailed construction schedule that includes the phases of construction and associated BMP implementation will be included by the construction contractor in Appendix G. Major milestones are listed in Table 2.4-1.

[5] The sources for this information are located below and are sources recommended in the General Permit.
http://www.waterboards.ca.gov/water_issues/programs/tmdl/303d_lists2006_epa.shtml
http://endeavor.des.ucdavis.edu/wqsid/bu.asp

Rainfall Erosivity Factor Calculator for Small Construction Sites

Facility Information

Facility Name: OGS
Start Date: 04/01/2011
End Date: 12/31/2013
Latitude: 38.0122
Longitude: -121.7505

Erosivity Index Calculator Results

AN EROSIVITY INDEX VALUE OF **48.5** HAS BEEN DETERMINED FOR THE CONSTRUCTION PERIOD OF **04/01/2011 - 12/31/2013**.

A rainfall erosivity factor of 5.0 or greater has been calculated for your site and period of construction. **You do not qualify for a waiver from NPDES permitting requirements.**

Start Over

Sign Up for NPDES NEWS

Get Acrobat Reader
The documents on this site are best viewed with Acrobat 8.0

Linda S. Adams
Acting Secretary for
Environmental Protection

Department of Toxic Substances Control

Leonard Robinson, Acting Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806

Edmund G. Brown Jr.
Governor

ATTN: GREG LAMBERG
CONTRA COSTA GENERATING STATION L
PO BOX 1690
DANVILLE CA 94526

EPA ID Number Issued: April 21, 2011
Location Address:
5950 BRIDGEHEAD RD
OAKLEY CA 94561

PERMANENT RECORD - DO NOT DESTROY
YOUR CALIFORNIA EPA IDENTIFICATION NUMBER IS:

CAL000363217

This is to acknowledge that a permanent California Environmental Protection Agency Identification (EPA ID) Number has been assigned to your place of business.

An EPA ID Number is assigned to a person or business at a specific site. It is only valid for the location and person or business to which it was assigned. If your business has multiple generation sites, each site must have its own unique number. If you stop handling hazardous waste, move your business, change ownership, change mailing address, or change the type or amount of waste you handle, you must notify the Department of Toxic Substances Control immediately. If your business has moved, your EPA ID Number must be canceled. A new number must be obtained for your new location if you continue to generate hazardous waste.

This EPA ID Number must be used for all manifesting, record keeping, and reporting requirements.
Please retain this notice in your files.

Department of Toxic Substances Control
Generator Information Services Section
Telephone: (916) 255-1136 or California Only Toll-free Number: (800) 618-6942

Operator's Initials: ASanders

version: January 2011

Printed on Recycled Paper

EXHIBIT 6

AQCMM REPORT, SWPPP INSPECTIONS, AND WETLAND E REPORT

Risk Level 1
Visual Inspection Field Log Sheet

Date and Time of Inspection: 3 November 2011 5PM	Report Date: 4 November 2011

Inspection Type:	☑ Weekly	☐ Before predicted rain	☐ During rain event	☐ Following qualifying rain event	☐ Contained stormwater release	☐ Quarterly non-stormwater

Site Information

Construction Site Name: Oakley Generating Station Project

Construction stage and completed activities: MAINTAINING SWPPP	Approximate area of exposed site: 23 ACRES

Weather and Observations

Date Rain Predicted to Occur: 6 November 2011	Predicted % chance of rain: 30% on 6 November 2011

Estimate storm beginning: UNKNOWN (date and time)	Estimate storm duration: _____ (hours)	Estimate time since last storm: _____ (days or hours)	Rain gauge reading: 0 (inches)

Observations: If yes identify location

Odors	Yes ☐	No ☑
Floating material	Yes ☐	No ☑
Suspended Material	Yes ☐	No ☑
Sheen	Yes ☐	No ☑
Discolorations	Yes ☐	No ☑
Turbidity	Yes ☐	No ☑

Site Inspections

Outfalls or BMPs Evaluated	Deficiencies Noted
(add additional sheets or attached detailed BMP Inspection Checklists)	
Dust control / track-out control	Watering As Required
De-watering / concrete washout	N/A

Photos Taken:	Yes ☑	No ☐	Photo Reference IDs:

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

Inspector Information

Inspector Name: Jim Peacock	Inspector Title: Site Manager/Inspector
Signature: James W. Peacock	Date: 4 November 2011

03.11.2011

03.11.2011

03.11.2011

03.11.2011

Risk Level 1
Visual Inspection Field Log Sheet

Date and Time of Inspection: 11 November 2011	Report Date: 11 November 2011

Inspection Type:	☑ Weekly	☐ Before predicted rain	☐ During rain event	☐ Following qualifying rain event	☐ Contained stormwater release	☐ Quarterly non-stormwater

Site Information

Construction Site Name: Oakley Generating Station Project	
Construction stage and completed activities: Maintaining SWPPP	Approximate area of exposed site: 23 Acres

Weather and Observations

Date Rain Predicted to Occur: 11 November 2011		Predicted % chance of rain: 40%	
Estimate storm beginning: 11 November 2011 / Afternoon (date and time)	Estimate storm duration: _____ (hours)	Estimate time since last storm: _____ (days or hours)	Rain gauge reading: _____ (inches)

Observations: If yes identify location

Odors	Yes ☐	No ☑
Floating material	Yes ☐	No ☑
Suspended Material	Yes ☐	No ☑
Sheen	Yes ☐	No ☑
Discolorations	Yes ☐	No ☑
Turbidity	Yes ☐	No ☑

Site Inspections

Outfalls or BMPs Evaluated	Deficiencies Noted
(add additional sheets or attached detailed BMP Inspection Checklists)	
Dust control / track-out control	Watering as Required
De-watering / concrete washout	N/A

Photos Taken:	Yes ☑	No ☐	Photo Reference IDs:

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

Inspector Information

Inspector Name: Jim Peacock	Inspector Title: Site Manager / Inspector
Signature: James W. Peacock	Date: 11 November 2011

11.11.2011

11.11.2011

Risk Level 1
Visual Inspection Field Log Sheet

Date and Time of Inspection:	Report Date: 17 November 2011

Inspection Type:	☑ Weekly	☐ Before predicted rain	☐ During rain event	☐ Following qualifying rain event	☐ Contained stormwater release	☐ Quarterly non-stormwater

Site Information

Construction Site Name: Oakley Generating Station Project	
Construction stage and completed activities: Maintaining SWPPP	Approximate area of exposed site: 23 ACRES

Weather and Observations

Date Rain Predicted to Occur: 18 November 2011 -		Predicted % chance of rain: 40%	
Estimate storm beginning: _____ (date and time)	Estimate storm duration: _____ (hours)	Estimate time since last storm: _____ (days or hours)	Rain gauge reading: _____ (inches)

Observations: If yes identify location

Odors	Yes ☐	No ☑
Floating material	Yes ☐	No ☑
Suspended Material	Yes ☐	No ☑
Sheen	Yes ☐	No ☑
Discolorations	Yes ☐	No ☑
Turbidity	Yes ☐	No ☑

Site Inspections

Outfalls or BMPs Evaluated	Deficiencies Noted
(add additional sheets or attached detailed BMP Inspection Checklists)	
Dust control / track-out control	Water as required
De-watering / concrete washout	

Photos Taken:	Yes ☑	No ☐	Photo Reference IDs:

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

Inspector Information

Inspector Name: James Peacock	Inspector Title: Site Manager/Inspector
Signature: James W. Peacock	Date: 17 November 2011

17.11.2011

17.11.2011

Risk Level 1
Visual Inspection Field Log Sheet

Date and Time of Inspection:	Report Date: 18 November 2011

Inspection Type:	☐ Weekly	☑ Before predicted rain	☐ During rain event	☐ Following qualifying rain event	☐ Contained stormwater release	☐ Quarterly non-stormwater

Site Information

Construction Site Name: Oakley Generating Station Project	
Construction stage and completed activities: Maintaining SWPPP	Approximate area of exposed site: 23 Acres

Weather and Observations

Date Rain Predicted to Occur: 19-20 November 2011		Predicted % chance of rain: 70%	
Estimate storm beginning: 19 November 2011 1900 (date and time)	Estimate storm duration: 24 hrs (hours)	Estimate time since last storm: _____ (days or hours)	Rain gauge reading: _____ (inches)

Observations: If yes identify location

Odors	Yes ☐	No ☑
Floating material	Yes ☐	No ☑
Suspended Material	Yes ☐	No ☑
Sheen	Yes ☐	No ☑
Discolorations	Yes ☐	No ☑
Turbidity	Yes ☐	No ☑

Site Inspections

Outfalls or BMPs Evaluated	Deficiencies Noted
(add additional sheets or attached detailed BMP Inspection Checklists)	
Dust control / track-out control	Water as Required
De-watering / concrete washout	

Photos Taken:	Yes ☐	No ☐	Photo Reference IDs:

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

Inspector Information

Inspector Name: Jim Peacock	Inspector Title: Site Manager/Inspector
Signature: James W. Peacock	Date: 18 November 2011

Risk Level 1
Visual Inspection Field Log Sheet

Date and Time of Inspection:	Report Date:
23 November 2011 1400	23 November 2011

Inspection Type:	☐ Weekly	☑ Before predicted rain	☐ During rain event	☐ Following qualifying rain event	☐ Contained stormwater release	☐ Quarterly non-stormwater

Site Information

Construction Site Name: Oakley Generating Station Project

Construction stage and completed activities:	Approximate area of exposed site:
MAINTAINING SWPPP	23 ACRES

Weather and Observations

Date Rain Predicted to Occur:	Predicted % chance of rain:
23 November 2011 (night)	50%

Estimate storm beginning: (date and time)	Estimate storm duration: (hours)	Estimate time since last storm: (days or hours)	Rain gauge reading: (inches)
23 November 2011 late evening	24	5 DAYS	"0"

Observations: If yes identify location

Odors	Yes ☐	No ☑
Floating material	Yes ☐	No ☑
Suspended Material	Yes ☐	No ☑
Sheen	Yes ☐	No ☑
Discolorations	Yes ☐	No ☑
Turbidity	Yes ☐	No ☑

Site Inspections

Outfalls or BMPs Evaluated	Deficiencies Noted
(add additional sheets or attached detailed BMP Inspection Checklists)	
Dust control / track-out control	Water as Required
De-watering / concrete washout	

Photos Taken:	Yes ☐	No ☑	Photo Reference IDs:

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

Inspector Information

Inspector Name:	Inspector Title:
Jim Peacock	Site Manager/Inspector

Signature:	Date:
James W. Peacock	23 November 2011

Your National Weather Service forecast

Oakley CA

Enter Your "City, ST" or zip code Go BOOKMARK

NWS San Francisco Bay Area/Monterey, CA
Point Forecast: Oakley CA
38°N 121.72°W (Elev. 26 ft)

Mobile Weather Information | En Español
Last Update: 3:01 am PST Nov 23, 2011
Forecast Valid: 2pm PST Nov 23, 2011-6pm PST Nov 29, 2011

Forecast At a Glance

This Afternoon	Tonight	Thanksgiving Day	Thursday Night	Friday	Friday Night	Saturday	Saturday Night	Sunday
20%	50%	40%	20%					
Slight Chc Rain	Chance Rain	Chance Showers	Slight Chc Showers	Partly Sunny	Patchy Fog	Patchy Fog	Patchy Fog	Patchy Fog
Hi 61 °F	Lo 47 °F	Hi 58 °F	Lo 45 °F	Hi 61 °F	Lo 42 °F	Hi 63 °F	Lo 43 °F	Hi 64 °F

Detailed 7 day Forecast

This Afternoon: A 20 percent chance of rain. Mostly cloudy, with a high near 61. South wind around 10 mph.

Tonight: A 50 percent chance of rain. Cloudy, with a low around 47. South southeast wind between 5 and 7 mph.

Thanksgiving Day: A 40 percent chance of showers. Mostly cloudy, with a high near 58. Calm wind becoming southwest between 4 and 7 mph.

Thursday Night: A 20 percent chance of showers. Mostly cloudy, with a low around 45. West southwest wind around 8 mph.

Friday: Partly sunny, with a high near 61. West northwest wind between 5 and 7 mph.

Friday Night: Patchy fog after 10pm. Otherwise, mostly cloudy, with a low around 42.

Saturday: Patchy fog before 10am. Otherwise, partly sunny, with a high near 63.

Saturday Night: Patchy fog after 10pm. Otherwise, partly cloudy, with a low around 43.

Sunday: Patchy fog before 10am. Otherwise, partly sunny, with a high near 64.

Sunday Night: Mostly cloudy, with a low around 46.

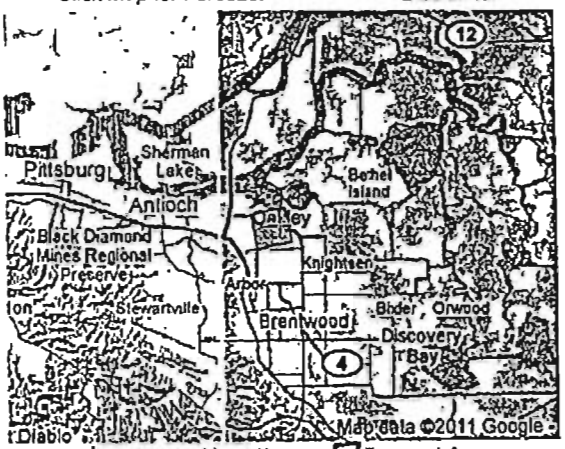
Monday: Partly sunny, with a high near 64.

Monday Night: Mostly cloudy, with a low around 44.

Tuesday: Partly sunny, with a high near 64.

Detailed Point Forecast [Move Down]

Click Map for Forecast Disclaimer



Requested Location Forecast Area
Lat/Lon: 38°N 121.72°W Elevation:26 ft

XML

Current Conditions [Move Up]

CW3427 Antioch (C3427)
Lat: 37.97959 Lon: -121.79778 Elev: 200
Last Update on 23 Nov 13:00 PST

54°F (12°C)

Humidity:	69 %
Wind Speed:	ESE 3 G 5 MPH
Barometer:	29.70 in (N/A mb)
Dewpoint:	44°F (7°C)
Visibility:	Miles
More Local Wx:	3 Day History:

Risk Level 1
Visual Inspection Field Log Sheet

Date and Time of Inspection: 25 November 2011 11 00Am	Report Date: 25 November 2011

Inspection Type:	☑ Weekly	☐ Before predicted rain	☐ During rain event	☐ Following qualifying rain event	☐ Contained stormwater release	☐ Quarterly non-stormwater

Site Information

Construction Site Name: Oakley Generating Station Project

Construction stage and completed activities: Maintaining SWPPP	Approximate area of exposed site: 23 Acres

Weather and Observations

Date Rain Predicted to Occur:	Predicted % chance of rain:

Estimate storm beginning: _____ (date and time)	Estimate storm duration: _____ (hours)	Estimate time since last storm: _____ (days or hours)	Rain gauge reading: _____ (inches)

Observations: If yes identify location

Odors	Yes ☐	No ☑
Floating material	Yes ☐	No ☑
Suspended Material	Yes ☐	No ☑
Sheen	Yes ☐	No ☑
Discolorations	Yes ☐	No ☑
Turbidity	Yes ☐	No ☑

Site Inspections

Outfalls or BMPs Evaluated	Deficiencies Noted
(add additional sheets or attached detailed BMP Inspection Checklists)	
Dust control / track-out control	Water As Required
De-watering / concrete washout	

Photos Taken:	Yes ☑	No ☐	Photo Reference IDs:

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

Inspector Information

Inspector Name: Jim Peacock	Inspector Title: Site Manager/Inspector
Signature: James W. Peacock	Date: 25 November 2011

25.11.2011

25.11.2011

Site Visit Notes for November 9, 2011

TO: CCGS LLC

FROM: Keith McGregor
Rick Crowe

DATE: November 9, 2011

- Weather Observation at ~12:00 pm (PST): Mostly cloudy/hazy, calm winds, air temperature ~57 F based on temperature reported for Oakley, CA (Weather Underground website)

WATER DEPTH MONITOR

Date: November 9, 2011
Arrival: ~11:00 am (PST)

- Visual Inspection: everything looked "OK". Most areas of the wetland are covered with standing water. However, there are still some small areas throughout the interior of the wetland with soil surface showing. Water was a rich brown color. The color appears to be due to suspended organic material.
- Desiccant: desiccant has turned mostly light purple.
- Delta Time: instrument ~ 2 minutes and 54 seconds slower than the computer; requires a "hard stop" of the program to reset time so the time was not reset today
- Conducted a data download at 11:20 am (PST).
- Took several pictures of the wetland and walked around the perimeter. No unusual observations during the site walk.

Departure: ~11:40 am (PST)

RAIN GAUGE

Date: November 9, 2011
Arrival: ~11:50 am (PST)
Visual Inspection: Everything looked "OK". Some water and spider eggs were present in the tipping bucket.
Battery Voltage: 13.5 Volts

- Conducted a data download at 12:21 pm (PST) and 12:41 pm (PST)
- Delta Time: datalogger ~ 20 seconds faster than the computer (reset at 12:20 pm PST)
- Dusted/cleaned rain gauge tipping buckets. Tipping bucket was tipped several times during the cleaning process. **Data for the 5-minute periods ending 12:35 and 12:40 pm PST should be invalidated. Hourly record for the hour ending at 1:00 pm PST should also be invalidated**.
- Cleaned out the small opening in the rain gauge collection funnel (spider eggs present)
- Dusted solar panel

Departure: ~12:45 pm (PST)

CCGS LLC

Thomas J. Chiangi
Oakley Power Project
CCGS Project Director
Power Plant Systems
20 Technology Parkway South, Suite 220
Norcross, GA 30092
USA
T +1 770 447-7259
C +1 404 395-9217
F +1 770 447-7235
tom.chiangi@ge.com

CCGS-CEC-009

Mr. Craig Hoffman
Compliance Project Manager
(09-AFC-4C)
California Energy Commission
1516 Ninth Street (MS-2000)
Sacramento, CA 95814

November 21, 2011

Subject: **Oakley Generating Station Project, 09-AFC-4, AQ-SC1**
AQCMM and AQCMM Delegate Resume Submittal

Dear Mr. Hoffman,

Pursuant to Condition of Certification AQ-SC1, attached for your review and comment is the resume for Mr. James Peacock, CCGS Site Project Manager.

Mr. Peacock has been designated as the on-site Air Quality Construction Mitigation Manager (AQCMM) during the construction phase of the Oakley Generating Station Project.

Also attached for your review is the resume for Mr. Zenis Walley, the CCGS Environmental Compliance Manager as the AQCMM Delegate.

Based on your review of these resumes, qualifications, and contact information, and consultation with the Oakley City Engineer, please provide the CEC staff approval for these two designations.

Should you have any questions concerning this matter, please contact me at your earliest convenience or Mr. Zenis Walley at (415) 243-3743.

Sincerely,

T. J. Chiangi

Thomas J. Chiangi
Oakley Power Project Director
Global Projects Organization

CC:	J. Xavier	GE Project Commercial Manager
	B. Hall	CCGS Contract Manager
	B. Bedaw	GE GPO Environmental Manager
	J. Peacock	CCGS Site Project Manager
	G. Lamberg	CCGS Senior VP
	Z. Walley	CCGS Project Compliance Manager
	M. Trask	CH2MHill Compliance Manager

James W. Peacock
173 Bessie Lane
Jasper, Georgia 30143
Home: (770)735-1731
Cell: (770)597-3839

EXPERIENCE SUMMARY

Thirty eight years of power plant construction, startup and operational experience, including several years of international assignments. Experience includes coal fire conventional fossil, combined cycle, simple cycle and hydroelectric units. Positions include Site Manager, Deputy Project Manager, Owner Engineering Representative, Commissioning Manager, Senior Startup Engineer, Shift Engineer, Senior Training Supervisor, Control Room Operator and Plant Operator. Experienced in Construction, Commissioning, Boiler Chemical Cleaning, Lube Oil Flushing, Project Proposal Bidding, DCS and I&C checkout.

PRESENT AVAILBILITY.

08/17/11 – Present: Contra Costa Generating Station, Site Manager. Monitoring daily activities of OPC and other contractors. Daily and weekly meetings as required. Development a working relationship with contractor and local government officials and offices.

05/25/11 – 08/03/11: GE Site Project Manager, Damietta Power Station. Resolving issues with project schedule, controlling daily activities for installation and commissioning. Project consist of 4 GE-9E Gas Turbines, simple cycle.

01/15/11 – 05/20/11: Project Manager GSII: Resolving close out issues on Baosteel Project. Reviewing future unsigned project contracts.

02/15/10 – 12/18/10:
Site Manager for GE at Baosteel Luojing COREX Gas CCPP Project Phase II, Baoshan District, Shanghai, China. Project consist of 1 GE-9EA Gas Turbine with Multi-Stage Fuel Gas Compressor, HRSG and Steam Turbine, total net output is 170 MW. Duties include daily installation coordination, maintaining project budget, manpower updating to meet clients schedule and project schedule. Meeting with client on daily with other contractor for installation status and commissioning updates.

08/12/08 – 12/18/09: GSI

Site Manager for GE at Nubaria III Power Project, El Behera Egypt. Project consist of 2 – 209FA GE Gas Turbines. Duties included daily installation and commissioning activities, project budget maintaining, manpower updating to meet project schedule. Meeting with client and other contractor for coordination of site work to.

02/20/08 – 07/20/08 : GSI

Senior Commissioning Manager, RAS ABU Power Project, Doha Qatar. Project consist of 3 – 209FA GE Gas Turbines. Duties included daily meetings with client and scheduling daily activities for project turnover.

01/12/08 – 02/15/08. GSI

Commissioning Manager Marafiq Project, Saudi. Assignment in Schenectady GE Office until report to site. Site will consist of 12 GE 7FA Gas Turbines and 4 Steam Turbines.

02/12/07 – 12/16/07. GSI

Deputy Commissioning Manager: Romoland California. Responsible for pre-commissioning all equipment at the GE 7H – IEEC Site in Romoland California. Duties also, construction completion, reviewing construction Turn Over Packages, Equipment Testing, Loop Check (both cold and hot Checks), Equipment Alignment and preparation for turnover to Owners. Project consist of 2 GE 7 – H Machines , total MW output 800MW's.

02/25/2006 – 02/12/07. No Project Assignment, GSI and GE Home Office, Project Assistance

05/20/2005 – 02/25/2006. NES

Siemens PG Site Manager/Construction Manager : Kirkuk Iraq. Responsible for installation of one Siemens V94.3A Gas Fired Gas Turbine at the Taza Power Station in Kirkuk Iraq. Also, duties included managing of replacement of one Gear Box on completed Siemens V64.3A Gas Turbine. This project was under the directions of Bechtel and USAID.

10/08/2004 to 05/20/2005. No Project Assignment. GSI and GE Home Office, Project Assistance

06/14/2004-10/08/2004. GSI

GE's Field Team Project Manager; Baghdad. Iraq. Manager of 7 Assessment Teams, which completed evaluation of 19 power facilities on their status and condition for operation and reliability. This assignment was under the direction and control of USAID.

09/28/2003-06/14/2004. No Project Assignment. GSI and GE Home Office, Project Assistance.

05/03-09/03. GSI

Commissioning Manager, Termopernambuco Combined Cycle Thermal Power Project, Recife Brazil. Project consists of 2 GE Gas Turbines and 1 GE Steam Turbine. Natural Gas fueled power project.

8/02-02/03. GSI
GE, Commissioning Manager, Takoradi Thermal Power Station, Volta River Authority, Takoradi Ghana, Africa. Project consists of 2 GE Gas Turbines and 1 GE Steam Turbine, Combined Cycle. Crude Oil and Diesel Fuel.

06/01-7/02. CDI Corp: Siemens Westinghouse Site Manager, during Installation and Commissioning. Decatur Energy Center, a Calpine Project, located in Decatur Alabama. Project consists of 3 Siemens Westinghouse and 1 Toshiba Steam Turbine, Combined Cycle. Single Fuel, Natural Gas.

11/00-06/01. CDI Corp: Siemens Westinghouse Site Manager, during Installation and Commissioning. Heard County Power Project, a Dynegy Project, located in Franklin, Georgia. Project consist of 3 Siemens Westinghouse 501FD Simple Cycle Units. Single Fuel, Natural Gas.

05/00-11/00. PENPOWER: Siemens Westinghouse Site Manager, for Construction and Commissioning. Merida III Power Project, a AES Project, located in Merida Mexico. Project consist of 2 501FD Siemens Westinghouse Gas Turbines and 1 Siemens Steam Turbine. Combined Cycle Turn Key Project. Duel Fuel, Natural Gas and Fuel Oil. (Relieved Site Manager during assignment and completed project)

02/00-05/00 PENPOWER: Stone & Webster Contract. Commissioning Manager for Indianapolis Power and Light/Detroit Edison, project located in Indianapolis Indiana. Project consists of 3 GE 7EA Gas Turbine, Natural Gas, Single Fuel. Simple Cycle Units.

10/99-12/99 PENPOWER: GE/S&S Power Services Startup Manager/Consultant for Allegheny Energy, located in Springdale Penns. Project consist of 2 LM-6000 Gas Turbines, single fuel, Natural Gas.

5/99-10/99 PENPOWER: Duke/Fluor Daniel, Home Office Commissioning Manager for West Georgia Project, located in Thomaston Georgia. Responsibilities included development of startup schedule, development of commissioning manual including commissioning procedures. Attending monthly Construction/Client Meetings on Site, remaining time was spent in Duke/Fluor Daniel Office located in Alas Viejo, Calafornia.

2/99-5/99 PENPOWER: General Electric, UCH Power Project, located in Jamali Balochistan, Pakistan. Duties were to review the construction and commissioning schedule and make recommendations to REC and GE for completion of commissioning activities. Project consist of 3 GE Gas Turbines, 3 HRSGS and 1 GE Steam Turbines. Duel Fuel, Natural Gas and Fuel Oil (diesel).

6/98-2/99 PENPOWER: General Electric, On Shore Project Manager, Asrigita Prasarana Project, located in East Palembang.. Duties included managing landfill activities, selection of in country sub-contractors, development of construction schedule and development of commissioning schedule. Responsibilities also included Daily/Weekly Meetings with Client and

Sub-Contractor, reviewing budgets project drawings. This GE Turnkey Project was delayed by Indonesia Presidential Decree, after landfill was completed.

11/97-2/99 PENPOWER: General Electric, Deputy Project Manager, Tambak Lorok Power Project, located in Semarang Indonesia. Responsibilities included monitoring the installation of a Bailey Control System, resolving any commercial issues of in country level, completing AS-Built Drawings and Closing out the project. Project consist of 6 GE Gas Turbines, 6 HRSG and 2 GE Steam Turbines. Fuel scheduled for site was duel, Natural Gas and Fuel Oil, but only Fuel Oil was used before demobilization of site.

6/95-7/98 PENPOWER: General Electric, Deputy Project Manager, Muara Karang Combined Cycle Power Project, located in Jakarta Indonesia. Project consist of 3 GE 9E Gas Turbine, 3 Vogt HRSG and 1 GE Steam Turbine. Duties included supervising Bailey Control System, Commissioning Activities, and resolving issues between GE and Client. Duel Fuel, Natural Gas and Fuel Oil.

2/94-6/95 Raytheon Constructors: Sithe Energies, Independence Station, located in Oswego, New York. Duties included as Senior Commissioning Supervising Engineer, development of commissioning schedule with procedures and daily commissioning mechanical checkout activities. Single fuel, Natural Gas.

11/92-2/94 EBASCO Constructors: Samchonpo Thermal Power Project, KEPCO, Senior Supervising Engineer. Duties included daily monitoring and recommendation to KEPCO (Client) on construction and commissioning activities. Project consist of 2 560 MW ABB-CE/KHIC coal fire boilers and 2 GE Steam Turbines. Responsibilities also included the monitoring of Bailey Control System during installation and commissioning. (Units #3 and #4.)

6/92-11/92 EBASCO Plant Services: Pawtucket Power Plant, Interim Plant Manager, located in Pawtucket RI. Duties and responsibilities were to review day to day plant operation, controlling of budget and maintenance schedules and activities. Also, during this Interim period assisted in the resolution of Constructors and Client relationship, resolving warranty issues. Project consist of 1 GE Gas Turbine and ABB Steam Turbine, duel fuel (Natural Gas and Fuel Oil).

2/91-6/92 EBASCO Plant Services: Linden Cogeneration Project, located in Exxon Refinery, Linden NJ, Commissioning Manager. Facility consist of 5 GE Gas Turbines, 5 Nooter HRSG, 3 GE Steam Turbines and Air Cooled Condenser. Duties included the development of the commissioning schedule with procedures and supervising the daily work activities of all startup activities.

9/90-2/91 EBASCO Plant Services: AES Shady Point Power Project, located in Pateau OK. Duties included supervising a team of 7 engineers in completing a over all plant construction and commissioning activities and submitting the results to AES through a Punchlist. Project consist of 2 ABB-CE Coal Fire Boiler and 2 ABB Steam Turbines.

6/90-9/90 EBASCO Plant Services: Sidney Murrey Hydroelectric Plant, located in Vidillia LA, Startup Engineer. Facility consist of 6 ABB Hydroelectric Turbine Generators. Responsibilities were to supervise 3 operational crews during commissioning activities.

3/90-6/90 Saudi Consolidated Electric Company: Project consist of 2 550 MW Natural Gas Fire Boilers and 2 MHI/Westinghouse Steam Turbines, located in Demmam Kingdom, Saudi Arabia, consultant. Duties assist in development of commissioning schedule and giving recommendation to SCECO.

3/82-3/90 Seminole Electric Cooperative Incorporated: Seminole Power Station, located in Palatka Fl, Shift Engineer. Facility consists of 2 Foster Wheeler Coal Fired Boilers and 2 ABB 600 MW Steam Turbine. Duties included monitoring construction activities during construction phase and commissioning activities. After construction completion supervised operation personnel during daily operational activities. These activities were in both the power block and wet scrubber areas,

1/77-2/82 Georgia Power Company: Atlanta Georgia. Senior Methods and Training Coordinator. Responsibilities included development of Training Programs, scheduling training for new employees and assisting in construction and commissioning of new power projects.

9/74-1/77 Georgia Power Company: Plant Wansley, Carrollton Georgia. Boiler Turbine Operational Supervisor. Responsibilities included, supervising operational personnel during construction and commissioning phases of 2 CE Coal Fired 865 MW Boilers and 2 GE 865 MW Steam Turbines.

3/70-9/74 Georgia Power Company: Plant McManus located in Brunswick Georgia, Boiler Turbine Operator. Project consist of 9 GE Gas Turbines, 2 B&W Coal/Oil Fired Boilers and 2 Allis Chamlers Steam Turbines. Duties included day to day plant operational activities during assigned shift of work.

8/65-3/70 Georgia Power Company: Plant Harllee Branch, located in Milledgeville, Georgia, Control Room Operator. Facility consists of 3 Foster Wheeler Boilers, 1 Riley Coal Fired Boiler, 3 GE and 1 Westinghouse Steam Turbines. Duties were to operate control center for plant operation on assigned unit, controlling the operation of boiler/turbine generator and balance of plant equipment for MW output for system load demands.

MILITARY

US Army Honorable Discharge

EDUCATION

1961 1964	**Glynn Academy High School**
1968-1972	**Brunswick College (no degree)**

TRAINING AND SCHOOLS

1985 Supervisor Training
1984 Time Planning Management Skills Traning
1984 Leeds and Northrop Controls School
1983 Assertive Management Training
1983 Supervisors Effective Communications Training
1983 Brown Boveri Company Turbine Generator School
1982 Foster Wheeler Boiler School
1979 Westinghouse Steam Turbine Generator School
1976 General Electric Large Steam Turbine Generator School
1974 Combustion Engineering High Pressure Boiler School
1974 General Electric Steam Turbine School
1969 General Electric Gas Turbine School

RESUME

Zenis M. Walley
314 West Moraga Street
Mountain House, CA 95391
415.823.1493

Summary of Qualifications

Adept skills in verbal and written communication, project development, implementation, budgeting, and management pertaining to the field of environmental and health & safety (EHS) compliance.

Environmental - Regulatory compliance management, air/water quality management (40 CFR 60 & 75 and 144, Title V, CEMS, RATA, ERC, Acid Rain EDR, CARB AB 32 GHG, Prop 65, SWPPP, NPDES, UIC), hazardous materials/hazardous waste management (RCRA, RMP, SPCC, HAZWOPER, SARA Title III, EPCRA, Business Plan/CUPA), Phase I & II ESA, environmental impact assessment (EIS, EIR, CEQA), wildlife habitat mitigation, threatened & endangered biological resources (wetlands, riparian, oak/scrub/grassland, beach dune, desert) assessment/monitoring/ protection, cultural/paleontological resources monitoring/protection, site remediation, property transfer due diligence, training, research, permit acquisition, team/project management, public speaking, report writing, contract management, mutually beneficial/positive interaction with local, state and federal agencies, and development/management of an Environmental Management System (EMS). Management of Conditions for Certification for three (3) separate California Energy Commission (CEC) approved projects.

Health & Safety - Health & safety management related to construction and plant operations (Cal OSHA Title 8, Fed OSHA 1910, IIPP, HAZCOMM, PSM, MSDS, chemical hygiene plan, industrial hygiene monitoring), training, root cause analysis (RCA), and auditing.

Professional Experience

URS Corporation
June 2011 - Present

Environmental Compliance Manager

Responsible for management of regulatory compliance during the construction phase and commissioning of the Oakley Generating Station Project, 624-megawatt net, combined-cycle, gas-fired, electrical power plant in Oakley, CA.

La Paloma Generating Company - NAES
April 2010 to June 2011

EHS Manager

Responsible for management of EHS and regulatory compliance at the La Paloma Generating Company, LLC electrical power plant in McKittrick, CA.

La Paloma Generating Company - CEP Operating Company, LLC
August 2005 to April 2010

EHS Manager

Responsible for management of EHS and regulatory compliance at the La Paloma Generating Company, LLC electrical power plant in McKittrick, CA.

La Paloma Generating Company - DTE Energy Services
April 2004 to August 2005

Environmental Manager

Responsible for management of environmental and regulatory compliance at the La Paloma Generating Company, LLC electrical power plant in McKittrick, CA.

La Paloma Generating Company - PG&E National Energy Group
November 1999 to April 2004

Environmental, Health & Safety Manager

Responsible for management of EHS and regulatory compliance during project construction phase, commissioning, and operation at the La Paloma Generating Company, LLC 1048-megawatt net, combined-cycle, gas-fired, electrical power plant in McKittrick, CA.

A/C Power – ACE Operations - Constellation
December 1990 to November 1999

Environmental, Health & Safety Manager

Responsible for management of EHS and regulatory compliance at the ACE Cogeneration Company electrical power plant in Trona, CA.

A/C Power – ACE Operations - Kerr-McGee Chemical Corporation
June 1989 to December 1990

Senior Regulatory Affairs Engineer

Responsible for management of environmental and regulatory compliance during project construction phase, commissioning, CEC Demonstration phase, and operation at the ACE Cogeneration Company 108-megawatt, coal-fired, electrical power plant in Trona, CA.

Engle & Gray, Inc
November 1988 to June 1989

Environmental Manager

Responsible for hazardous waste identification, environmental audits, site assessments, and site remediation for various energy projects in northern Santa Barbara County, and at Texaco's Gaviota Marine Terminal.

WESTEC Service, Inc.
October 1987 to November 1988

Project Manager/Senior Scientist

Responsible for assessment and management of environmental matters related to energy development projects and manager of the Environmental Quality Assurance Program during construction of Exxon's Santa Ynez Unit/Las Flores Canyon oil and gas development project in Santa Barbara County. Developed and coordinated the fire protection training program at Texaco's Gaviota Marine Terminal.

Union Oil Company of California (Unocal)
September 1980 to October 1987

Coast Area Environmental Specialist & Landman

Responsible for management of environmental and regulatory compliance at onshore oil and gas production operations in northern Santa Barbara County and southern San Luis Obispo County, and offshore in Federal waters. Landman responsibilities were for mineral right title search and negotiation of oil and gas leases.

Soil Conservation Service, USDA
May 1974 to August 1976

Soil Conservationist

Responsibilities included surveying, design and implementation of erosion control measures, development and implementation of land use plans, and consultation with landowners on soil conservation practices in the central coast of California.

Military Service

US Army, Infantry 1971-1973

Education

California Polytechnic State University, San Luis Obispo
Degree: Bachelor of Science, 1980
Major: Natural Resource Management
Concentration: Environmental Management

University of Oxford, Christ Church, Oxford, United Kingdom
Certificate: Music and Cultural Study, 2010

Special Achievements

Certificate for CARB 401: Comprehensive CEMS, 2010
Certificate for Class I UIC Well Operation, 2009
Certificate for HAZWOPER Operations Level, 2007/Technician Level 2008
Certificate in Federal Environmental Regulations, 2006
Certificate for Hazardous Materials Specialist, 2002
Certified Utility Safety Administrator (CUSA), National Safety Council, 2000
Certificate in Root Cause Failure Analysis Methods, 1999
Certificate in California Environmental Regulations, 1998

Certificate in Behavioral Science Method for Accident Prevention, 1996
Registered Safety Administrator, National Safety Council, 1995
Professional Member, American Society of Safety Engineers, 1994
Certified Safety Supervisor, National Safety Council, 1994
Certificate in Environmental, Health & Safety Law, 1993
Certificate in CARB Fundamentals of Enforcement/VEE, 1993
Certificate in Environmental Regulations, 1992

Recipient of *Resolution* from the California Energy Commission recognizing and commending key environmental compliance role in the success of the ACE Project, June 1994.

Oakley Generating Station Project

09-AFC-4

Personnel Contact Information

Name	Title	Contact Information
Zenis Walley	CCGS Env. Compliance Manager	Post Montgomery Center One Montgomery Street, Suite 900 San Francisco, CA 94104 Office 415.243.3743 Mobile 415.823.1493 zenis.walley@urs.com
Greg Lamberg	Senior Vice President	Radback Energy 145 Town & Country Drive, Suite 107 Danville, CA 94526 Office 925.820.5222 Mobile 916.799.9463 greg.lamberg@radback.com
James Peacock	CCGS Site Manager	5959 Bridgehead Road Oakley, CA 94561 Office (TBD) Mobile 770.597.3839 james.peacock@ge.com
Tom Chiangi	Oakley Project Director	GE Energy 20 Technology Way, Suite 220 Norcross, GA 30092 Office 770.447.7259 Mobile 404.395.9217 tom.chiangi@ge.com
Bryan Bertacchi	President and CEO	Radback Energy 145 Town & Country Drive, Suite 107 Danville, CA 94526 Office 925.820.5222 Mobile 916.769.9640 bryan.bertacchi@radback.com
Barry Bedaw	EHS Projects Leader	GE Energy 1 River Road, Bldg. 40-310F Schenectady, NY 12345 Office 518.385.9411 Mobile 518.894.2352 barry.bedaw@ge.com

Walley, Zenis

From: Walley, Zenis
Sent: Thursday, December 08, 2011 2:04 PM
To: Walley, Zenis
Subject: AQ-SC5: Exhibit - 6

From: Peacock, James (GE Energy, Non-GE) [mailto:James.Peacock@ge.com]
Sent: Thursday, December 08, 2011 1:09 PM
To: Walley, Zenis
Cc: Bryan.Bertacchi@radback.com; Greg.Lamberg@radback.com; Chiangi, Tom J (GE Power & Water)
Subject: Exhibit - 6

Zenis,

For the Exhibit – 6, AQ-SC5:

List of heavy Equipment – There were no equipment on site during the month of November 2011.

Vendor Letters Confirming Maintenance – I have no letter during the month of November 2011.

Jim

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Oakley Generation Station Project

AQ-SC5 Diesel Fuel Equipment Tracking Log

Inspection Sticker ID	Contractor	Manufacturer	Model No.	Equip Serial No.	Engine Family No.	HP	Engine Year	TIER 1-4	CARB ORDV Sticker Y/N	Date Received	Date Removed
ALB01	ALB	Bobcat	T190	A3LN38165	AKBXL02.6EAD	66	2011*	3	Y	8-Jun-11	28-Jun-11
ALB02	ALB	John Deere	210LJ	T0210LJ890070	8JDXL06.8106	100	NA	3	Y	9-Jun-11	30-Sep-11
ALB03	ALB	Bobcat	T190	527717550	5KBXL02.4EAD	66	2011*	3	Y	11-Jul-11	19-Jul-11
ALB04	ALB	Ford	L8000	1FTXR82A2JVA25818	JFM07.8FPE3	240	NA	3	Y	18-Jul-11	30-Sep-11
ALB05	ALB	Wacker	G70	20028539	BJDXL04.5107	100	NA	3	Y	1-Jul-11	5-Aug-11
ALB06	ALB	Bobcat	T190	A3LN38176	AKBXL02.6EAD	66	2011*	3	Y	26-Jul-11	28-Jul-11
ALB07	ALB	Caterpillar	314CLCR	PCA00445	4MVXL04.2AAA	94	NA	3	Y	2-Aug-11	22-Sep-11
ALB08	ALB	John Deere	210LJ	VB0890421	BJDXL06.8106	100	NA	3	Y	8-Aug-11	22-Aug-11
CWM01	CW Maloney	Caterpillar	330D	DAMWP00797	6CPXL08.8ESK	450	NA	3	Y	3-Aug-11	5-Aug-11
CWM02	CW Maloney	Bobcat	T320	A7MP11739	7KBXL03.8AAD	92	NA	3	Y	3-Aug-11	5-Aug-11
GCC01	Granite	Caterpillar	14M	R9J00233	ACPXL11.1ESK	450	2011	3	Y	10-Aug-11	19-Sep-11
GCC02	Granite	Caterpillar	623G	DBC00264	5CPXL15.2ESK	365	NA	3	Y	10-Aug-11	30-Sep-11
GCC03	Granite	John Deere	410J	T0410JX162070	8JDXL06.8106	99	NA	3	Y	11-Aug-11	30-Sep-11
GCC04	Granite	Peterbuilt	340	2NPRUU9X4814749743	7CEXH0505CAA	315	NA	3	Y	11-Aug-11	30-Sep-11
GCC05	Granite	Caterpillar	623G	DCBC88265	5CPXL15.2ESK	365	NA	3	Y	11-Aug-11	30-Sep-11
GCC06	Granite	Caterpillar	CS56	VC5S00369	8PKXL6.6PJ2	172	2011	3	Y	17-Aug-11	30-Sep-11
GCC07	Granite	Caterpillar	637E	1JB00421 (Front Eng)	7CPXL18.1ESK	480	NA	3	Y	17-Aug-11	16-Sep-11
-	-	Caterpillar	637E	1JB00421 (Rear Eng)	8CPXL08.8ESK	700				-	-
GCC08	Granite	Caterpillar	637E	1JB00426 (Front Eng)	7CPXL18.1ESK	480	NA	3	Y	17-Aug-11	16-Sep-11
-	-	Caterpillar	637E	1JB00426 (Rear Eng)	8CPXL08.8ESK	700				-	-
GCC09	Granite	Caterpillar	637E	1JB00424 (Front Eng)	7CPXL18.1ESK	700	NA	3	Y	18-Aug-11	16-Sep-11
-	-	Caterpillar	637E	1JB00424 (Rear Eng)	8CPXL08.8ESK	480				-	-
GCC10	Granite	Caterpillar	637D	27W1341 (Front Eng)	4CPXL18.0HSK	700	NA	3	Y	18-Aug-11	16-Sep-11
-	-	Caterpillar	637D	27W1341 (Rear Eng)	5CPXL08.8HSL	345				-	-
GCC11	Granite	Caterpillar	D6K	LFBH00558	7PKXL06.6PJ2	125	NA	3	Y	1-Sep-11	30-Sep-11
GCC12	Granite	Caterpillar	321D	NAS00418	9MVXL06.4FFF	156	NA	3	Y	12-Sep-11	30-Sep-11

*Note: One of three units had a 2011 engine.

Wetland E Water Depth and Precipitation Data – November 2011

PREPARED FOR: Contra Costa Generating Station LLC

PREPARED BY: Keith McGregor
Ben Beattie

DATE: December 12, 2011

Introduction

A water depth monitor and rain gauge were installed for the Oakley Generating Station project on November 24, 2010. The monitors were installed to establish the preconstruction hydrology for Wetland E. A Level Troll 500 water depth monitor was placed on the bottom surface of Wetland E and a Texas Electronics tipping bucket rain gauge was installed within the secured area of the DuPont facility. The Level Troll 500 was programmed to record the average depth of the wetland in inches every 15 minutes. A Campbell Scientific CR200X data logger records the rainfall data in inches every 5 minutes and summarizes the hourly rainfall totals at the top of each hour.

The purpose of this document is to:

- Report the rainfall totals and water depths for the month of November,
- Report maintenance and site visit activities conducted during the month, and
- Provide a plot of the rainfall and water depth measurements for November.

Data Summary

A total of 0.92 inches of rainfall were recorded during the month of November. The average water depth during this timeframe was 3.8 inches. A plot of the rainfall and Wetland E water depth data is shown in Figure 1.

Maintenance and Site Visit Activity

Data downloads and site inspections were conducted on November 9, 2011, and December 9, 2011. The site visit notes are included as an attachment to this technical memorandum. Maintenance activities were not required for the monitors during the month of November. All data records during November are considered valid with the exception of the 5-minute precipitation readings ending at 12:35 and 12:40 pm PST and the hour reading ending at 1:00 pm on November 9, 2011 (during the November 9 site visit). The tipping bucket was manually tipped during this time period. Therefore, the values were set to negative 0.00099 to indicate the values are invalid. Table 1 contains a summary of the site visit activities during the month of November. Site photographs are provided in Figures 2 through 4.

TABLE 1
Site Visit Activity
Wetland E Hydrology Monitoring Program

Date	Time	Operator*	Activity	Notes
11/09/2011	11:00 am – 12:45 pm (PST)	KM/RC	Data Download and Site Maintenance	Manually tipped bucket several times at approximately 12:35 pm PDT. Data for the 5-minute periods ending at 12:35 pm and 12:40 pm should be invalidated. Hourly record for the hour ending at 1:00 pm should also be invalidated.
12/09/2011	12:30 pm – 1:30 pm (PST)	KM	Data Download and Site Maintenance	NA

*KM = Keith McGregor
*RC = Rick Crowe

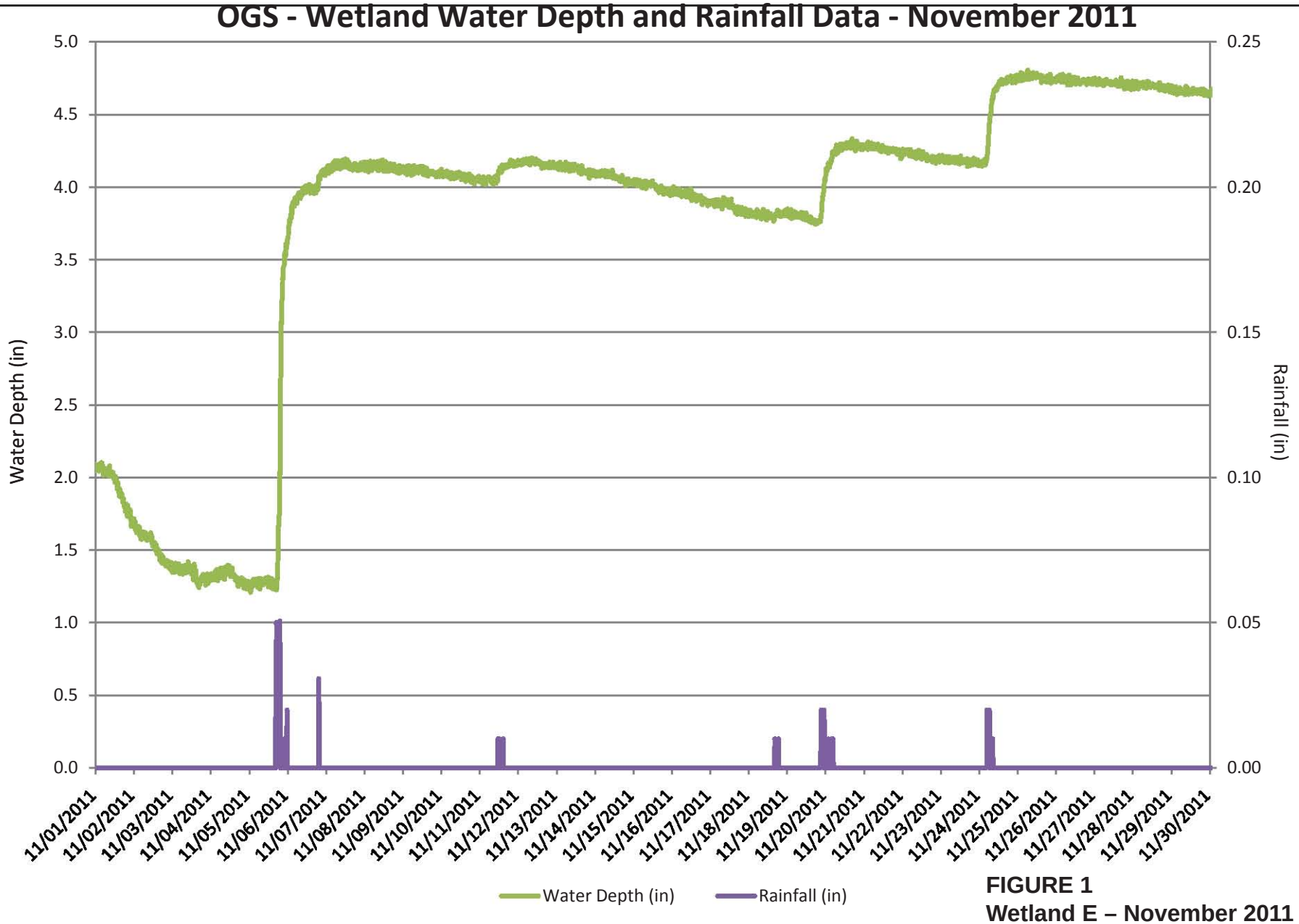

FIGURE 1
Wetland E – November 2011
Oakley Generating Station
Oakley, California

Wetland E View Looking East, November 9, 2011

Wetland E View Looking East, December 9, 2011

FIGURE 2
Wetland E – November / December 2011
Oakley Generating Station
Oakley, California

Wetland E View Looking South, November 9, 2011

Wetland E View Looking South, December 9, 2011

FIGURE 3
Wetland E – November / December 2011
Oakley Generating Station
Oakley, California

Wetland E Standing Water North Central View Looking South, November 9, 2011

FIGURE 4
Wetland E – November / December 2011
Oakley Generating Station
Oakley, California

CH2MHILL

IS012010223151SAC Figure_3.ai 12-12-11 it

Site Visit Notes for November 9, 2011

TO: CCGS LLC

FROM: Keith McGregor
Rick Crowe

DATE: November 9, 2011

- Weather Observation at ~12:00 pm (PST): Mostly cloudy/hazy, calm winds, air temperature ~57°F based on temperature reported for Oakley, CA (Weather Underground website)

WATER DEPTH MONITOR

Date: November 9, 2011
Arrival: ~11:00 am (PST)

- Visual Inspection: everything looked "OK". Most areas of the wetland are covered with standing water. However, there are still some small areas throughout the interior of the wetland with soil surface showing. Water color was a rich brown color. The color appears to be due to suspended organic material.
- Desiccant: desiccant has turned mostly light purple.
- Delta Time: instrument ~2 minutes and 54 seconds slower than the computer; requires a "hard stop" of the program to reset time so the time was not reset today
- Conducted a data download at 11:20 am (PST).
- Took several pictures of the wetland today and walked around the perimeter. No unusual observations during the site walk.

Departure: ~11:40 am (PST)

RAIN GAUGE

Date: November 9, 2011
Arrival: ~11:50 am (PST)
Visual Inspection: Everything looked "OK". Some water and spider eggs were present in the tipping bucket.
Battery Voltage: 13.5 Volts

- Conducted a data download at 12:21 pm (PST) and 12:41 pm (PST)
- Delta Time: datalogger ~20 seconds faster than the computer (reset at 12:20 pm PST)
- Dusted/cleaned rain gauge tipping buckets. Tipping bucket was tipped several times during the cleaning process. **Data for the 5-minute periods ending 12:35 and 12:40 pm PST should be invalidated. Hourly record for the hour ending at 1:00 pm PST should also be invalidated**.
- Cleaned out the small opening in the rain gauge collection funnel (spider eggs present)
- Dusted solar panel

Departure: ~12:45 pm (PST)

Site Visit Notes for December 9, 2011

TO: CCGS LLC

FROM: Keith McGregor

DATE: December 9, 2011

- Weather Observation for Oakley, CA at 1:00 pm (PST): Sunny, hazy, light ENE wind at ~7 mph, temperature ~58°F (Source: http://www.wunderground.com/)

WATER DEPTH MONITOR

Date: December 9, 2011
Arrival: 1:00 pm (PST)

- Visual Inspection: everything looked "OK". Similar to the November 9, 2011, site visit, most areas of the wetland are covered with standing water. However, there continue to be some areas throughout the interior of the wetland with soil surface showing and the water color continues to be a rich brown color. The color appears to be due to suspended organic material.
- Desiccant: desiccant has turned mostly light purple. Recommend changing soon.
- Delta Time: instrument ~2:45 minutes slower than the computer; requires a "hard stop" of the program to reset time so the time was not reset today.
- Conducted a data download at 1:12 pm (PST).
- Took two pictures of the wetland from the northeast corner of Wetland E looking south and east and walked around the perimeter. No unusual observations during the site walk.

Departure: ~1:30 pm (PST)

RAIN GAUGE

Date: December 9, 2011
Arrival: 12:30 pm (PST)
Visual Inspection: Everything looked "OK".
Battery Voltage: 13.6 Volts

- Conducted a data download at 12:41 pm (PST)
- Delta Time: datalogger ~ 43 seconds faster than the computer (reset at 12:40 pm PST)
- Dusted solar panel

Departure: ~12:45 pm (PST)

No modifications were made to the water depth monitor or manual tips conducted at the rain gauge during the site visit. Therefore, no data records were invalidated by the site visit.

EXHIBIT 7

BIOLOGICAL/CULTURAL/GEOLOGICAL & PALEONTOLOGICAL REPORTS

Biological Resources

Mitigation Monitoring for the

Oakley Generating Station Project

MONTHLY COMPLIANCE REPORT (BIO-2)

November 2011

Prepared by:

CH2M HILL

2485 Natomas Park Drive, Suite 600

Sacramento, California 95833

Oakley Generating Station

MONTHLY COMPLIANCE REPORT

November 2011

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INTRODUCTION 3
MONITORED MITIGATION MEASURES AND PERMIT CONDITIONS 3
SUMMARY OF ACTIVITIES 5
WORKER ENVIRONMENTAL AWARENESS TRAINING 5
GENERAL DAILY NOTES AND OBSERVATIONS 5

APPENDICES

A) Cumulative Wildlife Species Observed in or Near the Project Area

B) Site Photos

INTRODUCTION

The Oakley Generating Station (OGS) project will be a combined-cycle, natural-gas-fired power plant owned by Contra Costa Generating Station LLC (CCGS LLC). The project site is located in Oakley, California (eastern Contra Costa County) at 5950 Bridgehead Road in the northwestern quarter of Section 22, Township 2 North, Range 2 East, Mount Diablo Base Meridian (Figure 1).

The project site consists of 21.95 acres of which 13.9-acres were in agricultural production as a vineyard, 1.6-acres are the conservation easement for Wetland E, 3.0 acres are ruderal cover, 0.6 acre is non-native woodland, and 2.8 acres are paved surface (Figure 2). The construction laydown areas consist of 13.2 acres of barren ground and ruderal vegetation, and a 6.5-acre paved area. The three soil stockpile areas consist of stockpile 1, which is 2.2 acres of existing paved surface, and stockpiles 2 and 3, which are 2.7 acres and 2.3 acres respectively of ruderal grassland. In addition, temporary access roads are required to reach the soil stockpile areas, which consist of 2.3 acres of paved area and 0.2 acre of ruderal grassland. The project site is located within the boundary of an existing 210-acre site owned by DuPont.

On September 15, 2011, CCGS submitted an amendment to the California Energy Commission (CEC) and to the East Contra Costa County Habitat Conservancy (Conservancy) to amend the following changes to the OGS project description:

- Include an additional 4.64-acre temporary construction laydown/parking area adjacent to the OGS power block.
- Include an additional 0.56-acre area between 5th Street and Stockpile 1 to provide an alternate access to the OGS site and for construction vehicle staging.
- Remove four additional eucalyptus trees on the eastern edge of the power block site to allow construction of a permanent access road along the eastern edge of the OGS site.
- Trim the eucalyptus grove within the project boundary to allow room to grade and install the required bio-swales.
- Trim additional trees and possibly remove dead trees along the existing eucalyptus grove within the existing construction laydown area for worker safety.

Final approvals of the proposed changes were given by the CEC on October 25, 2011, and the Conservancy on October 27, 2011.

MONITORED MITIGATION MEASURES AND PERMIT CONDITIONS

Mitigation measures for the OGS project site were developed through consultation with the CEC and the Conservancy. Documentation of compliance with any conditions of the agency permits will be included in this report when applicable.

Conditions of Certification (COC) BIO 1-8 were in compliance during the month of November 2011. The following COCs require specific language be included in each monthly compliance report; therefore, they are addressed separately below.

BIO-9, nesting migratory bird mitigation measures such as pre-disturbance surveys, every worker participating in the WEAP program and the Designated Biologist making weekly/daily site visits, insured that BIO-9 was in compliance during the month of November 2011.

BIO-10, minimizing and avoiding direct impacts to bat species was in compliance during the month of November 2011 by employing pre-construction and pre-disturbance surveys to all trees to be removed or where any new work was in close proximity to trees or other bat holding structures.

BIO-11, Swainson's hawk mitigation measures such as pre-disturbance surveys, every worker participating in the WEAP program and the Designated Biologist making weekly/daily site visits, insured that BIO-11 was in compliance during the month of November 2011.

BIO-12, burrowing owl mitigation measures such as pre-disturbance surveys, every worker participating in the WEAP program and the Designated Biologist making weekly/daily site visits, insured that BIO-12 was in compliance during the month of November 2011.

BIO-13, American badger impact and avoidance minimization measures such as pre-disturbance surveys, every worker participating in the WEAP program and the Designated Biologist making weekly/daily site visits, insured that BIO-13 was in compliance during the month of November 2011.

BIO-14, San Joaquin kit fox avoidance minimizations measures such as pre-disturbance surveys, every worker participating in the WEAP program and the Designated Biologist making weekly/daily site visits, insured that BIO-14 was in compliance during the month of November 2011.

BIO-15, Western pond turtle impact and avoidance measures such as pre-disturbance surveys, every worker participating in the WEAP program and the Designated Biologist making weekly/daily site visits, insured that BIO-15 was in compliance during the month of November 2011.

BIO-16, Giant garter snake impact and avoidance measures such as pre-disturbance surveys, every worker participating in the WEAP program and the Designated Biologist making weekly/daily site visits, insured that BIO-16 was in compliance during the month of November 2011.

BIO-17, California tiger salamander impact and avoidance measures such as pre-disturbance surveys, every worker participating in the WEAP program and the Designated Biologist making weekly/daily site visits, insured that BIO-17 was in compliance during the month of November 2011.

BIO-18, California red-legged frog impact and avoidance measures such as pre-disturbance surveys, every worker participating in the WEAP program and the Designated Biologist making weekly/daily site visits, insured that BIO-18 was in compliance during the month of November 2011.

SUMMARY OF ACTIVITIES

This report provides a summary of November 2011 project activities and associated biological monitoring. A cumulative wildlife species list is included in Appendix A. The Designated Biologist (DB) and Biological Monitor (BM) completed logs summarizing activities, personal interactions, and observations made during each site visit. These logs are available on request.

Site Construction

November OGS project site activities consisted of continued installation of the Best Management Practices (BMPs) as well as rain event monitoring and BMP repair when necessary.

WORKER ENVIRONMENTAL AWARENESS TRAINING

The WEAP program was developed exclusively for the OGS project. Program materials include a handbook, video, posted speed limit signs and supporting posters. As required by COC BIO-5 from the CEC *Commission Decision*, all new employees must attend the WEAP program.

No new personnel received WEAP training in November; therefore the total of number of employees trained to date remains at 122. A CCGS Safety and Compliance Manager as well as the OGS Designated Biologist and Biological Monitor administer the WEAP training to new employees. Signed affidavits are kept on file by the CCGS Safety and Compliance Manager. Construction hours for the month of November were from 0700 hours to 1730 hours, Monday through Friday.

GENERAL DAILY NOTES AND OBSERVATIONS

During the month of November daily Biological Monitoring was not required. Project biological oversight was covered by the Designated Biologist (DB) Rick Crowe. The monitoring efforts for the month of November are documented below.

November 9th, the DB was on site to perform a compliance check and to download data from the Wetland E water depth gauge and the onsite rain gauge. The DB inspected all areas that contained storm water BMPs and special attention was given to areas that are adjacent to sensitive habitats. All storm water related BMPs were in place and functioning during this site visit; for more information on these observations see Photos 1 through 11 in Appendix B Site Photos. The OGS project was in compliance during this site visit.

November 22nd, the DB was on site to perform a compliance check. The DB inspected all areas that contained storm water BMPs and special attention was given to areas that are adjacent to sensitive habitats. All storm water related BMPs were in place and functioning during this site visit; for more information on these observations see Photos 12 through 29 in Appendix B, Site Photos. The OGS project was in compliance during this site visit.

Appendix A

Cumulative Wildlife Species Observed in or Near the Project Area

Cumulative Wildlife Species Observed in or Near the OGS Project Area		
Common Name	**Scientific Name**	**Comments**
• **BIRDS**		
Canada goose	*Branta canadensis*	Fly over
Mallard	*Anas platyrhynchos*	Fly over
American white pelican	*Pelecanus erythrorhynchos*	Fly over
Double-crested cormorant	*Phalacrocorax auritus*	Fly over
Great blue heron	*Ardea herodias*	Fly over
Great egret	*Ardea alba*	Fly over and Wetland E
Snowy egret	*Egretta thula*	Fly over
Green heron	*Butorides virescens*	Wetland E
Black-crowned night-heron	*Nycticorax nycticorax*	Fly over
Turkey vulture	*Cathartes aura*	Fly over
Osprey	*Pandion haliaetus*	Fly over
White-tailed kite	*Elanus leucurus*	Fly over
Northern harrier	*Circus cyaneus*	Fly over
Cooper's hawk	*Accipiter cooperii*	Fly over
Red-shouldered hawk	*Buteo lineatus*	Fly over
Red-tailed hawk	*Buteo jamaicensis*	Nest between laydown areas fledged 1 successfully 2011.
Swainson's hawk	*Buteo swainsoni*	Nest in redwood tree north of site fledged 2 successfully 2011.
American kestrel	*Falco sparverius*	Fly over
Great horned owl	*Bubo virgiianus*	Nest in eucalyptus tree on site, successfully fledged 2 young 2011.
Barn owl	*Tyto alba*	Dead individual observed near Safety trailer, 11/8/10.
Sandhill crane	*Grus canadensis*	Fly over
Killdeer	*Charadrius vociferus*	Nest in laydown area and fly over 2011.
California gull	*Larus californicus*	Fly over.
Bonaparte's gull	*Larus philadelphia*	Fly over.
Caspian tern	*Hydroprogne caspia*	Fly over.
Forster's tern	*Limnodromus scolopaceus*	Fly over.
Common tern	*Sterna hirundo*	Fly over.
Rock pigeon (*Exotic*)	*Sterna fosteri*	Fly over.
Eurasian collared-dove (*Exotic*)	*Columba livia*	Fly over and nesting on site.
Mourning dove	*Streptopelia decaocto*	Fly over
Anna's hummingbird	*Chaetura vauxi*	Fly over

Cumulative Wildlife Species Observed in or Near the OGS Project Area		
Common Name	**Scientific Name**	**Comments**
Belted kingfisher	*Archilochus alexandri*	Fly over
Downy woodpecker	*Picoides pubescens*	Eucalyptus trees on site
Nuttall's woodpecker	*Picoides nuttallii*	Eucalyptus trees on site
Northern flicker	*Colaptes auratus*	Eucalyptus trees on site
Black phoebe	*Sayornis nigricans*	Fly over
Western kingbird	*Tyrannus verticalis*	Fly over
Loggerhead shrike	*Vireo cassinii*	Observed along southern border of project site 2011.
Western scrub-jay	*Aphelocoma californica*	Throughout project site.
Bullock's oriole	*Icterus bullockii*	Eucalyptus trees
American crow	*Corvus brachyrhynchos*	Throughout project site.
Common raven	*Corvus corax*	Throughout project site.
California quail	*Callipepla californica*	Throughout project site.
Tree swallow	*Tachycineta bicolor*	Throughout project site.
Northern rough-winged swallow	*Stelgidopteryx serripennis*	Throughout project site.
Barn swallow	*Hirundo rustica*	Throughout project site.
Meadowlark	*Sturnella neglecta*	Fly over
Bushtit	*Psaltriparus minimus*	Throughout project site.
Ruby-crowned kinglet	*Regulus calendula*	Fly over
American robin	*Turdus migratorius*	Fly over
Northern mockingbird	*Mimus polyglottos*	Throughout project site.
European starling (*Exotic*)	*Sturnus vulgaris*	Throughout project site.
Cedar waxwing	*Bombycilla cedrorum*	Fly over
Yellow-rumped warbler	*Dendroica coronata*	Fly over
Savannah sparrow	*Passerculus sandwichensis*	Fly over
Song sparrow	*Melospiza melodia*	Fly over
Golden-crowned sparrow	*Zonotrichia atricapilla*	Eucalyptus trees
White-crowned sparrow	*Zonotrichia leucophrys*	Nesting in trees on site
Dark-eyed junco	*Junco hyemalis*	Foraging in laydown area
Red-winged blackbird	*Agelaius phoeniceus*	Wetland E
Brewer's blackbird	*Euphagus cyanocephalus*	Wetland E and one individual observed dead just off site 2011.
House finch	*Carpodacus mexicanus*	Nesting in trees on site.
House sparrow (*Exotic*)	*Passer domesticus*	Fly over.
MAMMALS		
California vole	*Microtus californicus*	Throughout project site

Cumulative Wildlife Species Observed in or Near the OGS Project Area		
Common Name	**Scientific Name**	**Comments**
Botta's pocket gopher	*Thomomys bottae*	Throughout project site. August 2011, 3 gophers captured and relocated, 1 individual killed during grading.
Coyote	*Canis latrans*	Numerous sightings on site.
California ground-squirrel	*Spermophilus beecheyi*	Throughout project site
Fox squirrel	*Sciurus niger*	Eucalyptus trees
Striped skunk	*Mephitis mephitis*	Observed during night time surveys
Black tailed hare	*Lepus californicus*	Throughout project site
Raccoon	*Procyon lotor*	Throughout project site
Feral cat	*Felis catus*	Throughout project site
AMPHIBIANS AND REPTILES		
Pacific chorus tree frog	*Hyla regilla*	Wetland E and one individual observed within an existing vault on site.
Gopher snake	*Pituophis melanoleucus*	Observed 2 different individuals near Wetland E, 2011. August 2011 captured 2 gopher snakes and released off site, 1 individual killed during grading.
Western fence lizard	*Sceloporus occidentalis*	Laydown area, pipeline route and Energy Center footprint

* Indicates new observance or additional information

Appendix B
Site Photos

Photo 1, north side of Wetland E, 11/9/11.

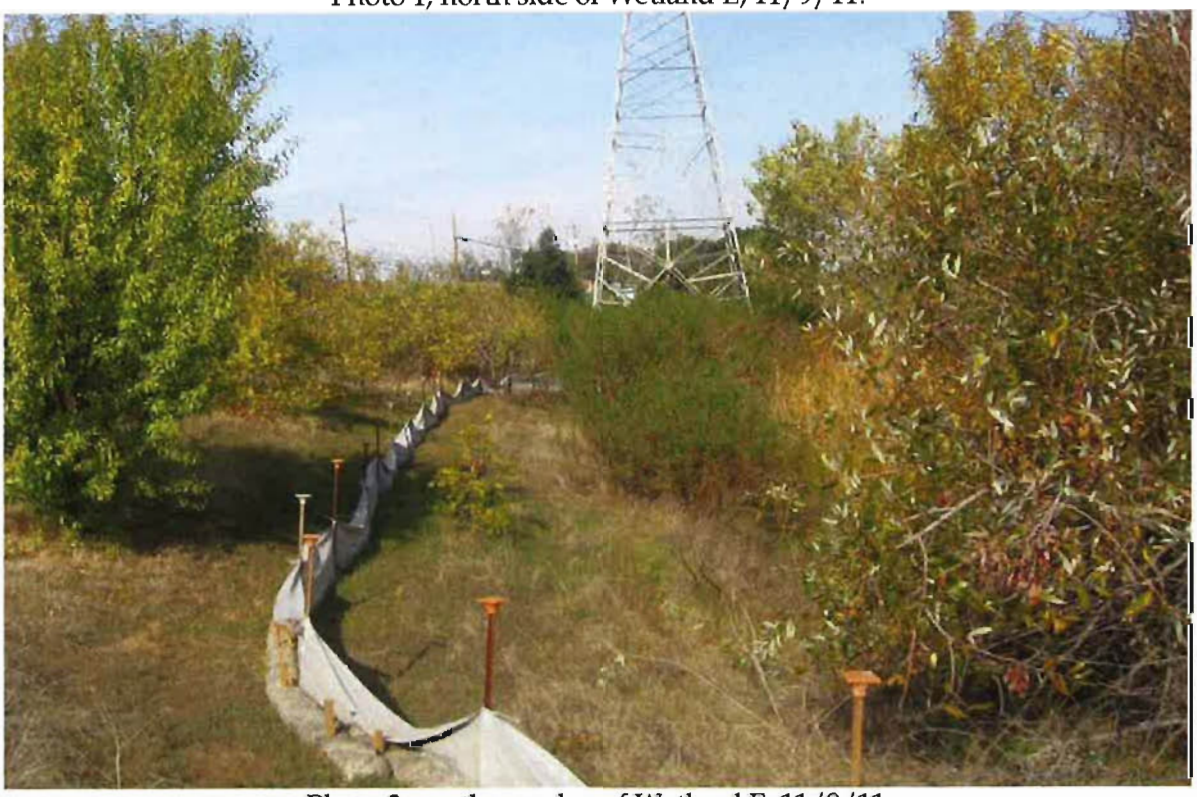

Photo 2, southern edge of Wetland E, 11/9/11.

Photo 3, detention pond facing southeast, 11/9/11.

Photo 4, bio-swale along eastern edge of OGS site, 11/9/11.

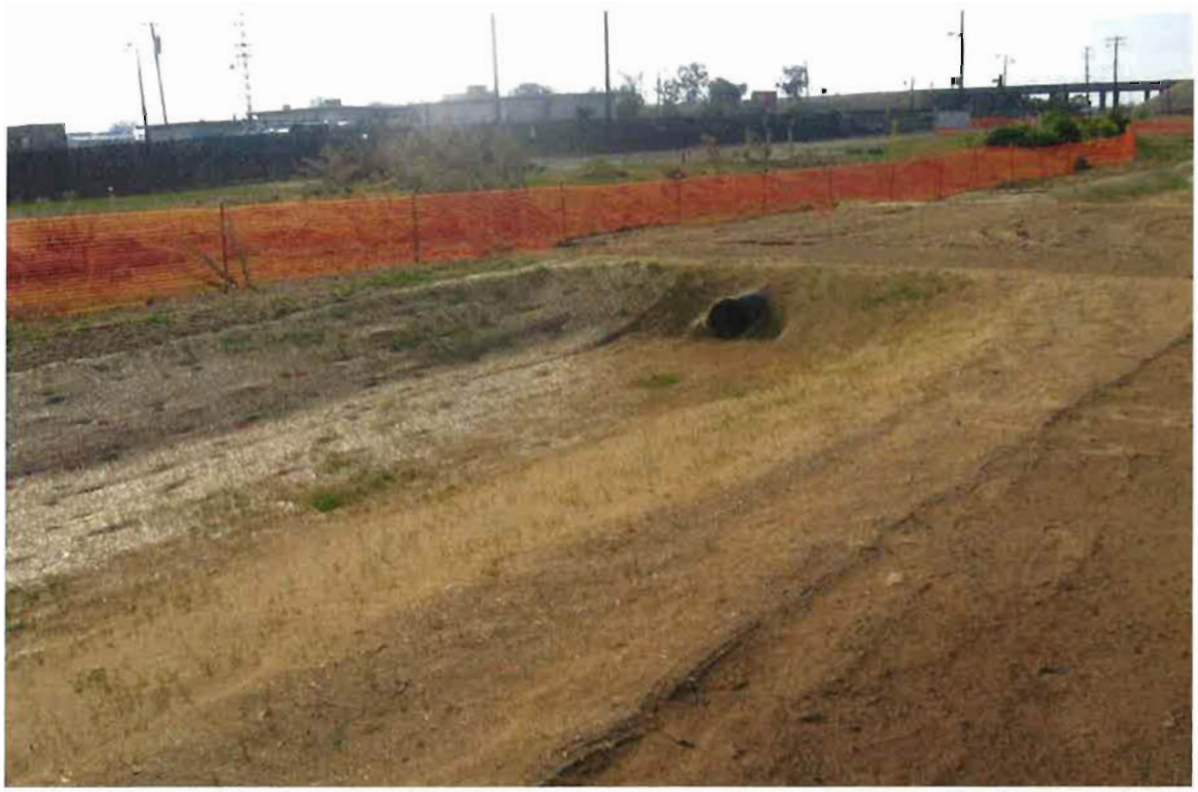

Photo 5, bio-swale leading into detention pond southern edge of detention pond area, 11/9/11.

Photo 6, detention pond facing northwest, 11/9/11.

Photo 7, bio-swale along northern OGS project site facing east, 11/9/11.

Photo 8, south side of soil stockpile area 3 facing west, 11/9/11.

Photo 9, northern edge of soil stockpile area 3 with Wetland D BMP's in place and functioning, 11/9/11.

Photo 10, south side of soil stockpile area 2 facing west, 11/9/11.

Photo 11, Wetland F with BMP's in place and functioning, 11/9/11.

Photo 12, south side of soil stockpile area 3 facing west, 11/22/11.

Photo 13, northern edge of soil stockpile area 3 with Wetland D BMP's in place and functioning, 11/22/11.

Photo 14, south side of soil stockpile area 2 facing west, 11/22/11.

Photo 15, Wetland F with BMP's in place and functioning, 11/22/11.

Photo 16, bio-swale on eastern edge of OGS site facing north, 11/22/11.

Photo 17, of OGS power block facing southwest with Mount Diablo in the background, 11/22/11.

Photo 18, bio-swale leading into detention pond southern edge of detention pond area, 11/22/11.

Photo 19, OGS detention pond facing northwest, 11/22/11.

Photo 20, detention basin rip rapped outfall, 11/22/11.

Photo 21, detention pond intake structure with BMP's in place and functioning, 11/22/11.

Photo 22, bio-swale along northern OGS project site facing east, 11/22/11.

Photo 23, bio-swale on eastern edge of OGS site facing south, 11/22/11.

Photo 24, OGS site entrance road with BMP's in place and functioning, 11/22/11.

Photo 25, OGS power block facing west, 11/22/11.

Photo 26, buffer area between detention pond and Wetland E, 11/22/11.

Photo 27, OGS entrance road with Wetland E BMP's in place and functioning, 11/22/11.

Photo 28, of capped pipe that originally transferred overflow from the DuPont parking lot to Wetland E, 11/22/11.

Photo 29, DuPont parking lot overflow basin, 11/22/11.

Monthly Report of Cultural Resources Monitoring Activities for the Oakley Generating Station Project for November 2011; COC CUL-6

Prepared For: Matt Trask, OGS Project Manager
Prepared By: Clint Helton/OGS Cultural Resource Specialist
Reporting For Period: November 2011

This report covers cultural resources monitoring activities at the Oakley Generating Station project for the month of November 2011, as required by Conditions of Certification CUL-6.

Personnel Active in Cultural Monitoring This Period

Phillip Reid and Art Ruelas participated as on-call CRMs for this month.

Monitoring and Associated Activities This Period

None.

Cultural Resources Discoveries This Period

None.

Anticipated Changes in the Next Period

As of September 28, 2011, grading in the Phase 2 area is completed and all major ground disturbances are now complete. CRM Phil Reid has been directed by the CRS to stay in communication with construction personnel and report to the CRS once a week. The CRMs will be on-call to continue monitoring as-needed.

Comments, Issues or Concerns

None.

Report of Paleontological Resources Monitoring Activities Oakley Generating Station; COC PAL-5

Prepared For:	Matt Trask/SAC Keith McGregor/SAC
Prepared By:	Geof Spaulding, Oakley Paleontological Resources Specialist (PRS) James Verhoff, Staff Paleontologist
Monitoring Period:	November 2011
Date:	December 6, 2011

This report covers paleontological resources monitoring activities at OGS project for the above noted period, as required by Conditions of Certification PAL-5.

Personnel Active in Paleontological Monitoring This Period

Personnel active in monitoring this period were:

Phil Reid

Monitoring and Associated Activities This Period

The PRMMP for this project establishes that sediments affected by excavations at the plant site possess low paleontological sensitivity. Therefore, a cross-trained cultural and paleontological resources monitor is being employed to monitor excavations at this site.

Excavations of potentially sensitive sediment did not occur at the OGS project site between 11/1 and 12/1/2011, and monitoring was not conducted during that time.

Paleontological Resources Discoveries This Period

No paleontological material was identified.

Anticipated Activities in the Next Period

Monitoring will resume when excavations resume. Monitoring will continue to be conducted by a cross-trained paleontological and archaeological resources monitor.

Comments, Issues or Concerns

Excavations are at too shallow a depth to affect paleontologically sensitive sediment.

EXHIBIT 8

WEAP TRAINING DOCUMENTATION

EXHIBIT 9

CONSTRUCTION SAFETY DOCUMENTATION

CONSTRUCTION SAFETY

During the reporting period, zero (0) personnel received a safety orientation. To date, 122 personnel have received safety orientation, which includes representatives from CCGS, CEC, ALB, CCCBID, and CH2M Hill. The project has logged 12,849 hours without a lost-time incident.

EXHIBIT 10

COMPLIANCE MATRIX AND POST CERTIFICATION CHANGES

OAKLEY GENERATING STATION PROJECT - CEC COMPLIANCE MATRIX **Update: 11/30/11**

Technical Area	Cond. No.	Phase	Description	Verification/Action	Submittal	Submittal Date Required	Expected or Actual Submittal Date	Date of CBO/CPM Approval	Status	Amendment Date	Responsibility	Notes
AQ	AQ-SC1	CONS	Designate and retain an on-site AQCMM who shall be responsible for directing and documenting compliance with **AQ-SC3, AQ-SC4, and AQ-SC5** for the entire project site and linear facility construction. The on-site AQCMM may delegate responsibilities to one or more AQCMM delegates. The AQCMM shall not be terminated without written consent of the CPM.	Submit to the CPM for approval and for consultation with the Oakley City Engineer, the name, resume, qualifications, and contact information for the on-site AQCMM and all AQCMM delegates. The AQCMM and all delegates must be approved by the CPM before the start of ground disturbance.	Resume of AQCMM & Delegates	At least 60 days prior to ground disturbance	Ongoing	CEC approved on 11/22/11.	Complete	NA	EPC/PG&E	James Peacock, CCGS Site Project Manager, is the AQCCM, and Zenis Walley, CCGS Env. Compliance Manager, is the AQCMM Delegate. Dena Parish (PG&E) and Rodrigo Villanueva (PG&E) are the AQCMM and AQCCM Delegate for the transmission line. Additional submittals are required if the AQCMM or delegate are replaced.
AQ	AQ-SC2	PC	Provide, for approval, an AQCMP that details the steps to be taken and the reporting requirements necessary to ensure compliance with conditions of certification **AQ-SC3, AQ-SC4 and AQ-SC5.**	Submit the AQCMP to the CPM for approval and for consultation with the Oakley City Engineer. The CPM will notify the project owner of any necessary modifications to the plan within 30 days from the date of receipt. The AQCMP must be approved by the CPM before the start of ground disturbance.	AQCMP	At least 60 days prior to ground disturbance			Complete	NA	CH2	
AQ	AQ-SC3	CONS	Submit documentation to the CPM in each MCR that demonstrates compliance with mitigation measures (a) through (m) in the Condition for purposes of preventing all fugitive dust plumes from leaving the project site and linear facility routes. Any deviation from the following mitigation measures shall require prior CPM notification and approval.	The MCR shall include: (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 AQCMM to verify compliance with this condition. Such information may be provided via electronic format or disk at the project owner's discretion.	MCR	Monthly	Ongoing		In-progress	NA	EPC/CCGS	
AQ	AQ-SC4a	CONS	AQCMM or delegate shall monitor all construction activities for visible dust plumes. Observations of visible dust plumes with the potential to be transported off the project site, 200 feet beyond the centerline of the construction of linear facilities, or within 100 feet upwind of any regularly occupied structures not owned by the owner/operator indicate that existing mitigation measures are not providing effective mitigation. The AQCMM or delegate shall then implement Steps 1 through 3 in the condition in the event such visible dust plumes are observed.		see AQ-SC2	Throughout Construction	Ongoing		In-progress	NA	EPC	
AQ	AQ-SC4b	PC	Include additional monitoring measures for visible dust plumes in AQCMP required by AQ-SC2.	The AQCMP shall include a section detailing how additional mitigation measures will be accomplished within the specified time limits.	AQCMP	At least 60 days prior to ground disturbance			Complete	NA	CH2	
AQ	AQ-SC5	CONS	Submit to the CPM, in the MCR, a construction mitigation report that demonstrates compliance with mitigation measures (a) through (f) in the Condition AQ-SC5 for purposes of controlling diesel construction related emissions. Any deviation from the mitigation measures shall require prior CPM notification and approval.	Include in the MCR: (1) a summary of all actions taken to maintain compliance with this condition; (2) 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 the equipment has been properly maintained; and (3) any other documentation deemed necessary by the CPM and AQCMM to verify compliance with this condition. Such information may be provided via electronic format or disk at the project owner's discretion.	MCR	Monthly	Ongoing		In-progress	NA	EPC	
AQ	AQ-SC6a	CONS	Any modification to any project air permit that is proposed by the project owner, the District, or U.S. EPA shall be submitted to the CPM for review and approval.	Submit any proposed air permit modification to the CPM within five working days of either: 1) submittal by the project owner to an agency, or 2) receipt of proposed modifications from an agency.	(If Needed)	Within 5 working days of proposing permit modification	As-needed		As-needed	NA	CCGS	
AQ	AQ-SC6b	CONS	Any revised permit issued by the District or U.S. EPA for the project shall be submitted to the CPM for review and approval.	Submit all modified air permits to the CPM within 15 days of receipt.	(If Needed)	Within 15 days of receipt of permit revision	As-needed		As-needed	NA	CCGS	
AQ	AQ-SC7a	PC	The project owner shall provide emission reductions in the form of emission reduction credits (ERCs) in the quantities of at least 98.78 tons per year (tpy) NOx, and 29.60 tpy VOC. The project owner shall demonstrate that the reductions are provided in the form required by the Bay Area Air Quality Management District. The project owner shall surrender the ERCs from among Bay Area Air Quality Management District Certificate Numbers 1241, 1242, and/or 1245, or a modified list, as allowed by this condition.	The project owner shall submit to the CPM records showing that the project's offset requirements have been met prior to initiating construction.	ERC's	Prior to construction			Complete	NA	CCGS	
AQ	AQ-SC7b	PC	If additional ERCs are submitted, the project owner shall submit a modified list including the additional ERCs to the CPM. The project owner shall request CPM approval for any substitutions, modifications, or additions to the listed credits. The CPM, in consultation with the District, may approve any such change to the ERC list provided that the project remains in compliance with all applicable laws, ordinances, regulations, and standards, and that the requested change(s) will not cause the project to result in a significant environmental impact. The District must also confirm that each requested change is consistent with applicable federal and state laws and regulations.	If the CPM approves a substitution or modification to the list of ERCs, the CPM shall file a statement of the approval with the project owner and the Energy Commission docket. The CPM shall maintain an updated list of approved ERCs for the project.	See AQ-SC7a	Prior to construction			Complete	NA	CEC	

Technical Area	Cond. No.	Phase	Description	Verification/Action	Submittal	Submittal Date Required	Expected or Actual Submittal Date	Date of CBO/CPM Approval	Status	Amendment Date	Responsibility	Notes
AQ	AQ-SC8a	CONS	The project owner shall mitigate 63.88 tons per year (tpy) of PM10/PM2.5 and 12.55 tpy of SOx emissions. The project owner shall provide initial funding for emission reduction projects and administrative fees to the Bay Area Clean Air Foundation in the amount of $500,000 within 90 days after the issuance of the Authority to Construct (ATC) Permit.	The project owner shall submit to the CPM confirmation that the appropriate initial funding has been provided within 90 days after the issuance of the ATC Permit.	Initial Funding of the Bay Area Clean Air Foundation	Within 90 days after the issuance of the ATC Permit	30-Mar-00		Complete	NA	CCGS	ATC Permit issued on 6/2/11. Funds wired on 8/31/11.
AQ	AQ-SC8b	CONS	The project owner shall mitigate 63.88 tons per year (tpy) of PM10/PM2.5 and 12.55 tpy of SOx emissions. The project owner shall provide additional funding to the Bay Area Clean Air Foundation on a monthly basis as necessary to fund the qualifying emission reduction projects selected for that month.	The project owner shall provide quarterly summaries of the emission reduction project selection information to the CPM for review until such time that all funds have been committed by the Bay Area Clean Air Foundation to qualifying projects.	Quarterly summaries until funds are committed	Quarterly	TBD		Not Started	NA	CCGS	
AQ	AQ-SC8c	CONS	The project owner shall make a final demonstration of the quantity and schedule of all emission reductions sponsored by the funding at least 30 days prior to first turbine fire.	Additionally, the project owner shall submit to the CPM confirmation that the appropriate funding has been provided to the Bay Area Clean Air Foundation at least 30 days prior to turbine first fire.	Confirmation that appropriate funding has been provided	At least 30 days prior to first turbine fire	TBD		Not Started	NA	CCGS	
AQ	AQ-SC9	OPS	Submit to the CPM quarterly operation reports that include operational and emissions information as necessary to demonstrate compliance with the conditions of certification. The quarterly operation report shall specifically note or highlight incidences of noncompliance.	Submit quarterly operation reports to the CPM and APCO. This information shall be maintained on site for a minimum of five years and shall be provided to the CPM and District personnel upon request.	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	Maintain information on site for a minimum of 5 years.
AQ	AQ-SC10	COMM	The facility shall be operated such that simultaneous commissioning of the two combustion turbines will not occur without abatement of nitrogen oxide and CO emissions by its SCR system and oxidation catalyst system will not occur. Operation of one combustion turbine during commissioning without abatement shall be limited to times when the second combustion turbine is either non-operational or in compliance with emission limits for routine operation.	Submit a monthly compliance report to the CPM during the commissioning period demonstrating compliance with this condition.	MCR	Monthly	Ongoing		In-progress	NA	EPC	
AQ	AQ-1	COMM	Minimize emissions of carbon monoxide and nitrogen oxides from S-1 and S-2 Gas Turbines to the maximum extent possible during the commissioning period.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	EPC	
AQ	AQ-2	COMM	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 and S-2 Gas Turbines combustors to minimize the emissions of carbon monoxide and nitrogen oxides.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	EPC	
AQ	AQ-3	COMM	At the earliest feasible opportunity in accordance with the recommendations of the equipment manufacturers and the construction contractor, the owner/operator shall install, adjust, and operate the A-2 and A-4 Oxidation Catalysts and A-1 and A-3 SCR Systems to minimize the emissions of carbon monoxide and nitrogen oxides from S-1 and S-2 Gas Turbines.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	EPC	
AQ	AQ-4	CONS	Submit a plan to the District Engineering Division and the CEC CPM at least four weeks prior to first firing of S-1 and S-2 Gas Turbines describing the procedures to be followed during the commissioning of the gas turbines. The plan shall include the a description of each commissioning activity, the anticipated duration of each activity in hours, and the purpose of the activity. The activities described shall include, but not be limited to, the tuning of the Dry-Low-NOX combustors, the installation and operation of the required emission control systems, the installation, calibration, and testing of the CO and NOX continuous emission monitors, and any activities requiring the firing of the Gas Turbines (S 1 and S 2) without abatement or with partial abatement by their respective oxidation catalysts and/or SCR Systems. The Gas Turbines (S-1 or S-2) shall not be fired sooner than 28 days after the District receives the commissioning plan.	Submit a commissioning plan to the CPM and APCO for approval describing the procedures to be followed during the commissioning period and the anticipated duration of each commissioning activity.	Commissioning Plan	At least 4 weeks prior to first firing of the gas turbine	TBD		Not Started	NA	EPC	
AQ	AQ-5	COMM	During the commissioning period, demonstrate compliance with AQ-7, AQ-8, and AQ-9 through the use of properly operated and maintained continuous emission monitors and data recorders for the parameters and emission concentrations listed in this condition. The monitored parameters shall be recorded, and District-approved calculation methods shall be used, as outlined in this condition. Records shall be retained on site for at least 5 years from the date of entry and such records will be made available to District personnel upon request.	Submit to the CPM and APCO for approval the commissioning plan as required in AQ-4.	see AQ-4	At least 4 weeks prior to first firing of the gas turbine	TBD		Not Started	NA	EPC	

Technical Area	Cond. No.	Phase	Description	Verification/Action	Submittal	Submittal Date Required	Expected or Actual Submittal Date	Date of CBO/CPM Approval	Status	Amendment Date	Responsibility	Notes
AQ	AQ-6	COMM	Install, calibrate, and operate the District-approved continuous monitors specified in AQ-5 prior to first firing of the Gas Turbines (S-1 and S-2). After first firing of the turbines, adjust the detection range of these continuous emission monitors as necessary to accurately measure the resulting range of CO and NOx emission concentrations. The instruments shall operate at all times of operation of S-1 and S-2 including start-up, shutdown, upset, and malfunction, except as allowed by BAAQMD Regulation 1-522, BAAQMD Manual of Procedures, Volume V. If necessary to comply with this requirement, the project owner shall install dual-span monitors. The type, specifications, and location of these monitors shall be subject to District review and approval.	Make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	--	Prior to first firing of the Gas Turbines	TBD		Not Started	NA	EPC	
AQ	AQ-7	COMM	The Gas Turbines shall not be fired without abatement of nitrogen oxide emissions and/or abatement of CO emissions, as described in this condition. Such operation of any Gas Turbine without abatement shall be limited to discrete commissioning activities that can only be properly executed without the SCR system and/or oxidation catalyst in place. Upon completion of these activities, provide written notice to the District Engineering Division and Compliance and Enforcement Division and the unused balance of the 831 firing hours for each turbine without abatement shall expire.	Submit to the CPM and APCO for approval the commissioning plan as required in AQ-4. A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	see AQ-4 / Quarterly Operation Report	Upon Completion of activities	TBD		Not Started	NA	EPC	
AQ	AQ-8	COMM	The total mass emissions of nitrogen oxides, carbon monoxide, precursor organic compounds, PM10, and sulfur dioxide that are emitted by the Gas Turbines (S-1 and S-2) during the commissioning period shall accrue towards the consecutive twelve-month emission limitations specified in AQ-43.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	EPC	
AQ	AQ-9	COMM	The Gas Turbines (S-1 and S-2) shall not be operated in a manner such that the pollutant emissions from the turbines will exceed the limits in this condition during the commissioning period. These emission limits shall include emissions resulting from the start-up and shutdown of the Gas Turbines.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	EPC	
AQ	AQ-10	OPS	Fire the Gas Turbines (S-1 and S-2) exclusively on PUC-regulated natural gas with a maximum sulfur content of 1 grain per 100 standard cubic feet. To demonstrate compliance with this limit, the operator of S-1 and S-2 shall sample and analyze the gas from each supply source at least monthly to determine the sulfur content of the gas. PG&E monthly sulfur data may be used provided that such data can be demonstrated to be representative of the gas delivered to the OGS.	The result of the natural gas fuel sulfur monitoring data and other fuel sulfur content source data shall be submitted to the District and CPM in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-11	OPS	The units shall not be operated such that the heat input rate to each Gas Turbine (S-1 and S-2) exceeds 2,150 MMBtu (HHV) per hour.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-12	OPS	The units shall not be operated such that the heat input rate to each Gas Turbine (S-1 and S-2) exceeds 51,600 MMBtu (HHV) per day.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-13	OPS	The units shall not be operated such that the combined cumulative heat input rate for the Gas Turbines (S-1 and S-2) exceeds 35,397,277 MMBtu (HHV) per year.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-14	OPS	Ensure that each Gas Turbine (S-1 and S-2) is abated by the properly operated and properly maintained Selective Catalytic Reduction (SCR) System A-1 or A-3 and Oxidation Catalyst System A-2 or A-4 whenever fuel is combusted at those sources and the corresponding SCR catalyst bed (A-1 or A-3) has reached minimum operating temperature.	Make the site available for inspection by representatives of the District, ARB, and the Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-15	OPS	The Gas Turbines (S-1 and S-2) shall comply with requirements (a) through (f) in this condition. Requirements (a) through (f) do not apply during a gas turbine start-up, and shutdown.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-16	OPS	The regulated air pollutant mass emission rates from each of the Gas Turbines (S-1 and S-2) during a start-up or shutdown shall not exceed the limits established in this condition (shown in Table).	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-17a	OPS	The owner/operator shall not perform combustor tuning on each Gas Turbine (S-1 or S-2) more than twice in any consecutive 12 month period. Each tuning event shall not exceed 8 hours. Combustor tuning shall only be performed on one gas turbine per day.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-17b	OPS	The owner/operator shall notify the District Engineering Division and Compliance and Enforcement Division no later than 24 hours prior to combustor tuning activity, except in exigent circumstances.	Owner/operator shall notify by the District and CPM at least 7 days prior to the combustor tuning.	Notification	No later than 24 hours prior to tuning activity	TBD		Not Started	NA	CCGS	

Technical Area	Cond. No.	Phase	Description	Verification/Action	Submittal	Submittal Date Required	Expected or Actual Submittal Date	Date of CBO/CPM Approval	Status	Amendment Date	Responsibility	Notes
AQ	AQ-17c	OPS	If exigent circumstances arise, the owner/operator shall notify the District Engineering Division and Compliance and Enforcement Division in writing 24 hours prior to combustor tuning activity detailing the circumstances.	Owner/operator shall notify by the District and CPM at least 24 hours prior to the combustor tuning.	Notification	No later than 24 hours prior to tuning activity	TBD		Not Started	NA	CCGS	
AQ	AQ-17d	OPS	Emissions during combustor tuning from each gas turbine shall not exceed the hourly limits established in this condition and shall not exceed hourly limits established by the District based on emissions data obtained during the first tuning event for each turbine. The owner/operator shall measure and record mass emissions of NOx and CO using the continuous emissions monitors during tuning and shall measure POC emissions during the first tuning after the first turbine has been commissioned using a District-approved source test method. The owner/operator shall seek District approval of the test method in accordance with **AQ-29** below.	A summary of significant operations and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-17e	OPS	Owner/operator shall submit the record of NOx, CO and POC emissions during the first tuning event after the first turbine has been commissioned to the District within 60 days after the first tuning event.	A summary of significant operations and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).		No later than 60 days following the event.	TBD		Not Started	NA	CCGS	
AQ	AQ-17f	OPS	The District shall establish mass emissions limits for the future tuning events based on this test data and shall notify the owner/operator of these limits.			After first tuning event	TBD		Not Started	NA	BAAQMD	
AQ	AQ-18	OPS	Total emissions from the Gas Turbines (S-1 and S-2), including emissions generated during gas turbine start-ups and shutdowns, shall not exceed the limits (a) through (c) of this condition during any calendar day (except for days during which combustor tuning events occur, which are subject to condition AQ-19).	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-19	OPS	Total emissions from each Gas Turbine (S-1 and S-2), including emissions generated during gas turbine start-ups, shut-downs, and combustor tuning events shall not exceed the limits (a) through (c) of this condition during any calendar day on which a tuning event occurs.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-20	OPS	The maximum projected annual toxic air contaminant emissions (per AQ-23) from the Gas Turbines (S-1 and S-4) combined shall not exceed the limits in this condition. A health risk assessment shall be performed using the emission rates determined by the procedures described in this condition. The risk analysis shall be submitted to the District and the CEC CPM within 60 days of the source test date. The owner/operator may request that the District and the CEC CPM revise the carcinogenic compound emission limits, as described in this condition. If the owner/operator demonstrates to the satisfaction of the APCO that these revised emission limits will not result in a significant cancer risk, the District and the CEC CPM may, at their discretion, adjust the carcinogenic compound emission limits listed in this condition.	Source test results obtained through compliance with AQ-23 and AQ-27 shall confirm the toxic air contaminant emission rates or the project owner shall submit an updated health risk assessment.	Health Risk Assessment (if needed)	Within 60 days of the source testing date	TBD		Not Started	NA	CCGS	
AQ	AQ-21	OPS	Compliance with AQ-11 through AQ-13, AQ-15(a) through AQ-15(d), AQ-16 (NOX, and CO limits), AQ-17 (NOx, and CO limits), AQ-18(a), AQ-18(b), AQ-19(a), 19(b), AQ-43(a) and AQ-43(b) shall be demonstrated by using properly operated and maintained continuous monitors (during all hours of operation including gas turbine startup, and shutdown periods). The project owner shall monitor for parameters (a) through (k) of this condition.	Make the site available for inspection by representatives of the District, ARB and the Commission to verify the continuous monitoring and recordkeeping system is properly installed and operational.	--	Throughout Operation	Ongoing		Not Started	NA	CCGS	
AQ	AQ-22	OPS	To demonstrate compliance with AQ-15(f), AQ-18(c), AQ-19(c), and AQ-43(c), calculate and record on a daily basis, the mass emissions from each power train as listed in this condition. Use the criteria listed in this condition to calculate these emissions, and present the calculated emissions in format (a) and (b) of this condition.	Make the site available for inspection by representatives of the District, ARB and the Commission to verify the calculation and recordkeeping system is properly installed and operational.	--	Throughout Operation	Ongoing		Not Started	NA	CCGS	
AQ	AQ-23	OPS	To demonstrate compliance with AQ-20, calculate and record on an annual basis the maximum projected annual emissions of: Formaldehyde, Benzene, and Specified PAHs. Calculate the maximum projected annual emissions using the factors described in this condition. Use of a reduced annual heat input rate to calculate the maximum projected annual emissions shall be subject to District review and approval.	Make the site available for inspection by representatives of the District, ARB and the Commission to verify the calculation and recordkeeping system is properly installed and operational.	--	Throughout Operation	Ongoing		Not Started	NA	CCGS	

Technical Area	Cond. No.	Phase	Description	Verification/Action	Submittal	Submittal Date Required	Expected or Actual Submittal Date	Date of CBO/CPM Approval	Status	Amendment Date	Responsibility	Notes
AQ	AQ-24a	COMM	Within 90 days of the beginning of the start-up period (as defined in Regulation 2-1-210) of each of the OGS 7FA units or as otherwise approved by the APCO, conduct a District-approved source test on exhaust point P-1 and P-2 to determine the corrected ammonia (NH3) emission concentration to determine compliance with AQ-15(e). (See Condition AQ-25 for purpose and method of test.) Ongoing compliance with AQ-15(e) shall be demonstrated through calculations of corrected ammonia concentrations based upon the source test correlation and continuous records of ammonia injection rate. Submit the source test results to the District and the CEC CPM within 60 days of conducting the tests.	The results and field data collected during source tests shall be submitted to the District and CPM within 60 days of testing and according to a preapproved protocol (AQ-29). Testing for steady-state emissions shall be conducted upon initial operation and at least once every 12 months.	Source Test Results & Field Data	Source test within 90 operating days of startup. Submit results within 60 days of the source testing	TBD		Not Started	NA	EPC	
AQ	AQ-24b	OPS	On an annual basis, conduct a District-approved source test on exhaust point P-1 and P-2 to determine the corrected ammonia (NH3) emission concentration to determine compliance with AQ-15(e). (See Condition AQ-24 for purpose and method of test.) Ongoing compliance with AQ-15(e) shall be demonstrated through calculations of corrected ammonia concentrations based upon the source test correlation and continuous records of ammonia injection rate. Submit the source test results to the District and the CEC CPM within 60 days of conducting the tests.	The results and field data collected during source tests shall be submitted to the District and CPM within 60 days of testing and according to a preapproved protocol (AQ-29). Testing for steady-state emissions shall be conducted upon initial operation and at least once every 12 months.	Source Test Results & Field Data	Source test annually. Annual Testing/Results submitted within 60 days of the source testing	Ongoing		Not Started	NA	CCGS	
AQ	AQ-25a	COMM	Within 90 days of the beginning of the start-up period (as defined in Regulation 2-1-210) of each of the OGS GE 7FA units or as otherwise approved by the APCO, conduct a District-approved source test on exhaust points P-1 and P-2 while each Gas Turbine is operating at maximum load to determine compliance with AQ-15(a), AQ-15(b), AQ-15(c), AQ-15(d), AQ-15(f), and to establish the emissions factors to be used to demonstrate compliance with AQ-43(d) and AQ-43(e); and while each Gas Turbine is operating at minimum load to determine compliance with AQ-15(c) and AQ-15(d); and to verify the accuracy of the continuous emissions monitors required in AQ-21. Test for (as a minimum) the elements listed in this condition. Submit the source test results to the District and the CEC CPM within 60 days of conducting the tests. The project owner may conduct up to four tests per year for total particulate matter including condensable particulate matter.	The results and field data collected during source tests shall be submitted to the District and CPM within 60 days of testing and according to a pre-approved protocol (AQ-29). Testing for steady-state emissions shall be conducted upon initial operation and at least once every 12 months.	Source Test Results & Field Data	Source test within 90 operating days of first fire. Submit results within 60 days of the source testing	TBD		Not Started	NA	EPC	
AQ	AQ-25b	OPS	On an annual basis, conduct a District-approved source test on exhaust points P-1 and P-2 while each Gas Turbine is operating at maximum load to determine compliance with AQ-15(a), AQ-15(b), AQ-15(c), AQ-15(d), AQ-15(f), and to establish the emissions factors to be used to demonstrate compliance with AQ-42(d) and AQ-42(e); and while each Gas Turbine is operating at minimum load to determine compliance with AQ-15(c) and AQ-15(d); and to verify the accuracy of the continuous emissions monitors required in AQ-21. Test for (as a minimum) the elements listed in this condition [AQ-25]. Submit the source test results to the District and the CEC CPM within 60 days of conducting the tests. The project owner may conduct up to four tests per year for total particulate matter including condensable particulate matter.	The results and field data collected during source tests shall be submitted to the District and CPM within 60 days of testing and according to a pre-approved protocol (AQ-29). Testing for steady-state emissions shall be conducted upon initial operation and at least once every 12 months.	Source Test Results & Field Data	Source test annually. Annual Testing/Results submitted within 60 days of the source testing	Ongoing		Not Started	NA	CCGS	
AQ	AQ-26a	OPS	Within 90 days of the beginning of the start-up period (as defined in Regulation 2-1-210) of each OGS GE 7FA units or as otherwise approved by the APCO, conduct District- and CEC-approved source tests for that Gas Turbine to determine compliance with the emission limitations specified in AQ-16. The source tests shall determine NOx, CO, and POC emissions during start-up and shutdown of the gas turbines. The POC emissions shall be analyzed for methane and ethane to account for the presence of unburned natural gas. The source test shall include a minimum of three start-up and three shutdown periods.	Submit to the CPM and APCO for approval the commissioning plan as required in AQ-4.	Conduct source test and protocol	Within 90 days of the beginning of the start-up period of each OGS GE 7FA units or as otherwise approved by the APCO	TBD		Not Started	NA	CCGS	
AQ	AQ-26b	OPS	Thirty working days before the execution of the source tests, the owner/operator shall submit to the District and the CEC Compliance Program Manager (CPM) a detailed source test plan designed satisfy the requirements of this Part. The District and the CEC CPM will notify the owner/operator of any necessary modifications to the plan within 20 working days of receipt of the plan; otherwise, the plan shall be deemed approved. The owner/operator shall incorporate the District and CEC CPM comments into the test plan. The owner/operator shall notify the District and the CEC CPM within seven (7) working days prior to the planned source testing date. Submit the source test results to the District and the CEC CPM within 60 days of the source testing date.	Submit the source test results to the District and the CEC CPM within 60 days of the source testing dates.	Source Test Results	Submit plan 30 days before source testing, provide results within 60 days of the source testing	TBD		Not Started	NA	CCGS	

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AQ	AQ-27a	COMM	Within 90 days of the beginning of the start-up period (as defined in Regulation 2-1-210) of the second of the OGS GE 7FA gas turbines or as otherwise approved by the APCO, conduct a District-approved source test on either exhaust point P-1 or P-2 while the Gas Turbine is operating at maximum allowable operating rates to demonstrate compliance with AQ-20. Also test the gas turbine while it is operating at minimum load. If three consecutive biennial source tests demonstrate that the annual emission rates calculated pursuant to AQ-23 for any of the compounds listed in this condition are less than 50% of the levels listed in AG-20 then the project owner may discontinue future testing for that pollutant.	The results and field data collected during source tests shall be submitted to the District and CPM within 60 days of testing and according to a preapproved protocol (AQ-29). Testing for toxic air contaminant emissions shall be conducted upon initial operation.	Source Test Results & Field Data	Source test within 90 operating days of first fire. Submit results within 60 days of the source testing	TBD		Not Started	NA	EPC	
AQ	AQ-27b	OPS	On a biennial basis (once every two years), conduct a District-approved source test on one of the following exhaust points P-1 or P-2 while the Gas Turbine is operating at maximum allowable operating rates to demonstrate compliance with AQ-20. Also test the gas turbine while it is operating at minimum load. If three consecutive biennial source tests demonstrate that the annual emission rates calculated pursuant to AQ-23 for any of the compounds listed in this condition are less than 50% of the levels listed in AQ-20 then the project owner may discontinue future testing for that pollutant.	The results and field data collected during source tests shall be submitted to the District and CPM within 60 days of testing and according to a preapproved protocol (AQ-29). Testing for toxic air contaminant emissions shall be conducted at least once every 24 months.	Source Test Results & Field Data	Source test every 2 years or until rates fall below level specified in condition. Biennial Testing/Results submitted within 60 days of the source testing	Ongoing		Not Started	NA	CCGS	
AQ	AQ-28a	COMM	Within 90 days of the beginning of the start-up period (as defined in Regulation 2-1-210) of each of the OGS GE 7FA gas turbines or as otherwise approved by the APCO, conduct a District-approved source test on one of the two exhaust points P-1 and P-2 while the gas turbine is operating at maximum heat input rates to demonstrate compliance with the total sulfuric acid mist emission rate specified in this condition. Test for (as a minimum) SO2, SO3, and H2SO4, and the sulfur content of the fuel. Submit the source test results to the District and the CEC CPM within 60 days of conducting the tests.	The results and field data collected during source tests shall be submitted to the District and CPM within 60 days of testing and according to a preapproved protocol (AQ-29). Testing for steady-state emissions shall be conducted upon initial operation.	Source Test Results & Field Data	Source test within 90 days of startup. Submit results within 60 days of the source testing	TBD		Not Started	NA	EPC	
AQ	AQ-28b	OPS	On an annual basis, conduct a District-approved source test on one of the two exhaust points P-1 and P-2 while the gas turbine is operating at maximum heat input rates to demonstrate compliance with the sulfuric acid mist emission rate specified in this condition. Test for (as a minimum) SO2, SO3, and H2SO4, and the sulfur content of the fuel. Submit the source test results to the District and the CEC CPM within 60 days of conducting the tests.	The results and field data collected during source tests shall be submitted to the District and CPM within 60 days of testing and according to a preapproved protocol (AQ-27). Testing for steady-state emissions shall be conducted at least once every 12 months.	Source Test Results & Field Data	Source test annually. Annual Testing/Results submitted within 60 days of the source testing	Ongoing		Not Started	NA	CCGS	
AQ	AQ-29a	OPS	Obtain approval for all source test procedures from the District's Source Test Section and the CEC CPM prior to conducting any tests, comply with all applicable testing requirements for continuous emission monitors as specified in Volume V of the District's Manual of Procedures. Notify the District's Source Test Section and the CEC CPM in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). Measure the contribution of condensable PM (back half) to any measurement of the total particulate matter or PM10 emissions. However, the owner/operator may propose alternative measuring techniques to measure condensable PM such as the use of a dilution tunnel or other appropriate method used to capture semi-volatile organic compounds.	Submit the proposed source test plan or protocol for the source tests seven days prior to the proposed source test date to both the District and CPM for approval. Notify the District and CPM no later than seven days prior to the proposed source test date and time.	Approval for and Conduct Source Tests	Notify at least 7 days prior to testing	TBD		Not Started	NA	CCGS	
AQ	AQ-29b	OPS	Submit the source test results to the District and the CEC CPM within 60 days of conducting the tests.			Submit results within 60 days of conducting tests	TBD		Not Started	NA	CCGS	
AQ	AQ-30	CONS	The stack height of emission points P-1 and P-2 shall each be at least 155.5 feet above grade level at the stack base.	Make the site available for inspection by representatives of the District, ARB and CEC.	--	Design and Throughout Operation	Incorporate into design		In-progress	NA	GE	BAAQMD Modeling was also based on a specific elevation. Need to make sure stack height and elevation grade match BAAQMD dispersion modeling.
AQ	AQ-31	CONS	Submit manufacturer's specifications and emissions guarantees for NOx and CO for the Auxiliary Boiler (S-3) to the District Engineering Division and the CEC CPM at least four weeks prior to first firing of Auxiliary Boiler (S-3).	At least 30 days prior to the installation of the Auxiliary Boiler provide District and CPM specifications for boiler.	Boiler Specifications	At least 30 days prior to installation of the Auxiliary Boiler	TBD		Not Started	NA	EPC	
AQ	AQ-32	COMM	If Oxidation Catalyst (A 5) is required, the owner/operator shall install, adjust, and operate the A 5 Oxidation Catalyst at the earliest feasible opportunity, in accordance with the recommendations of the equipment manufacturers and the construction contractor, to minimize the emissions of carbon monoxide from S 3 Auxiliary Boiler.	The project owner shall make the site available for inspection of equipment and records by representatives of the District, ARB, and CEC.		Earliest feasible opportunity	TBD		In-progress	NA	EPC	

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AQ	AQ-33	OPS	The heat input rate to the Auxiliary Boiler (S 3) shall not exceed 50.6 MMBtu per hour, averaged over any rolling 3 hour period.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-34	OPS	The heat input rate to the Auxiliary Boiler (S 3) shall not exceed 218,606 MMBtu per year.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-35	OPS	NOx, CO, and POC emissions shall not exceed the thresholds listed in (a) through (c) of this condition.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-36	OPS	Demonstrate compliance with AQ-35(a), AQ-35(b) and AQ-43(a) and AQ-43(b) by using properly operated and maintained continuous monitors (during all hours of operation including auxiliary boiler start-up, tuning and shut down periods). Monitor for parameters (a) through (j) of this condition at least every 15 minutes (excluding normal calibration periods.	Make the site available for inspection by representatives of the District, ARB and CEC.		Throughout Operation	Ongoing		Not Started	NA	CCGS	
AQ	AQ-37	OPS	To demonstrate compliance with AQ-35(c) the owner/operator shall calculate and record on a daily basis, the precursor organic compound (POC) mass emissions from the auxiliary boiler using the actual heat input rates measured pursuant to AQ-36, and CEC and District-approved emission factors developed pursuant to source testing under AQ-38 to calculate these emissions. Calculated emissions shall be presented as shown in sections (a) and (b) of this condition.	Make the site available for inspection by representatives of the District, ARB and CEC.		Throughout Operation	Ongoing		Not Started	NA	CCGS	
AQ	AQ-38a	OPS	Within 90 days of start-up of Auxiliary Boiler (S-3), conduct a District-approved source test on exhaust point P-3 while the auxiliary boiler is operating at maximum load to determine emission factors for POC, PM10, and Sox. Testing will be done for (at a minimum): water content, stack gas flow rate, oxygen concentration, precursor organic compound concentration and mass emissions, nitrogen oxide concentration and mass emissions (as NO2), carbon monoxide concentrations and mass emissions, sulfur dioxide concentration and mass emissions, methane, ethane, and PM10 emissions including condensable particulate matter.	Submit for approval, the source test plan to the District and CPM, thirty (30) working days before the execution of the compliance test required in this condition.	Source Test	Source test within 90 operating days of first fire of each auxiliary boiler.	TBD		Not Started	NA	CCGS	
AQ	AQ-38b	OPS	Thirty working days before the execution of the source tests, submit to the District and the CEC Compliance Program Manager (CPM) a detailed source test plan for approval. The District and the CEC CPM will notify the project owner of any necessary modifications to the plan within 20 working days of receipt of the plan.	Submit for approval, the source test plan to the District and CPM, thirty (30) working days before the execution of the compliance test required in this condition.	Source Test Plan	At least 30 days prior to source testing.	TBD		Not Started	NA	CCGS	
AQ	AQ-38c	OPS	Owner/operator shall notify the District and the CEC CPM within 7 working days prior to the planned source testing date.		Notification to District and CPM	Within 7 working days prior to conducting source test.	TBD		Not Started	NA	CCGS	
AQ	AQ-38c	OPS	Submit the source test results to the District and the CEC CPM within 60 days of the source testing date.	Test results shall be submitted to the District and to the CPM within sixty (60) days of the source testing date.	Test results	Within 60 days of source testing	TBD		Not Started	NA	CCGS	
AQ	AQ-39	OPS	Fire the Fire Pump Diesel Engine (S-4) exclusively on diesel fuel having a sulfur content no greater than 0.0015% by weight.	Make the site available for inspection by representatives of the District, ARB, and CEC.		Throughout operation	Ongoing		Not Started	NA	CCGS	
AQ	AQ-40	OPS	Operate the Fire Pump Diesel Engine (S-4) for no more than 49 hours per year for the purpose of reliability testing and non-emergency operation.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-41	OPS	The owner/operator shall operate the Fire Pump Diesel Engine (S 4) only when a non-resettable totalizing hour meter (with a minimum display capability of 9,999 hours) is installed, operated and properly maintained.	Make the site available for inspection by representatives of the District, ARB and the Commission. Include a photograph of each totalizing meter in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter and throughout Operation	Ongoing		Not Started	NA	CCGS	
AQ	AQ-42	OPS	Maintain the monthly records for Fire Pump Engine (S-4) as outlined in sections (a) through (e) of this condition in a District approved log for at least 5 years. Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.	Make the site available for inspection by representatives of the District, ARB and CEC.		Throughout Operation	Ongoing		Not Started	NA	CCGS	
AQ	AQ-43	OPS	The owner/operator shall not allow total combined emissions from the Gas Turbines (S 1 and S 2), including emissions generated during gas turbine start-ups, combustor tuning, shutdowns, and malfunctions, the auxiliary boiler (S 3), including emissions generated during auxiliary boiler start-ups, tune-ups, shutdowns, and malfunctions, and the fire pump diesel engine (S-4), including non-emergency and emergency operation, to exceed the limits in sections (a) through (e) of this condition during any consecutive twelve-month period. Compliance with the limits shall be determined using the procedures outlined in this condition.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	

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AQ	AQ-44	OPS	To demonstrate compliance with AQ-43, the owner/operator shall record the total emissions for each consecutive 12 month period. The owner/operator shall calculate emissions of each pollutant listed in AQ-43(a) through (e) from the gas turbines, auxiliary boiler, and fire pump diesel engine for each calendar month using the calculation procedures established in AQ-43, and shall calculate annual emissions to determine compliance with the limits listed in AQ-43(a) through (e) by summing the monthly totals for the previous 12 months.	The project owner shall make the site available for inspection by representatives of the District, ARB and the Commission to verify the calculation and recordkeeping system is properly installed and operational.		Throughout Operation	Ongoing		Not Started	NA	CCGS	
AQ	AQ-45	OPS	Submit all reports to the District (including, but not limited to monthly CEM reports, monitor breakdown reports, emission excess reports, equipment breakdown reports, etc.) as required by District Rules or Regulations and in accordance with all procedures and time limits specified in the Rule, Regulation, Manual of Procedures, or Compliance and Enforcement Division Policies & Procedures Manual.	Notifications and reports, including the quarterly operation report (AQ-SC9), shall be prepared and submitted in compliance with this condition.	District Reporting	Including, but not limited to monthly and no later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-46	OPS	Maintain all records and reports on site for a minimum of 5 years. These records shall include but are not limited to the reports listed in this condition. Make all records and reports available to District and the CEC CPM staff upon request.	Make the site available for inspection by representatives of the District, ARB and CEC.	--	Throughout Operation	Ongoing		Not Started	NA	CCGS	
AQ	AQ-47	OPS	Notify the District and the CEC CPM of any violations of these permit conditions. Notification shall be submitted in a timely manner in accordance with all applicable District Rules, Regulations, and the Manual of Procedures. Notwithstanding the notification and reporting requirements given in any District Rule, Regulation, or the Manual of Procedures, submit written notification (facsimile is acceptable) to the Enforcement Division within 96 hours of the violation of any permit condition.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC9).	(If Needed)	Within 96 hours of violation of permit condition & No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
AQ	AQ-48	CONS	Provide adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall comply with the procedures listed in this condition, and shall be subject to BAAQMD review and approval, except that the facility shall provide four sampling ports that are at least 6 inches in diameter in the same plane of each gas turbine stack (P 1, P 2).	The project owner shall make the site available for inspection by representatives of the District, ARB and CEC.	--	Design and Throughout Operation	Incorporate into Design		In-progress	NA	GE	Refer to BAAQMD Manual of Procedures Vol. IV and Vol. V, and USEPA 40 CFR 60 Subpart GG - Gas Turbines, Appendix A - Test Methods, and Appendix B - Performance Specifications (CEMS).
AQ	AQ-49	CONS	Within 180 days of the issuance of the Authority to Construct for the OGS, contact the BAAQMD Technical Services Division regarding requirements for the continuous emission monitors, sampling ports, platforms, and source tests required by AQ-24 through AQ-28, and AQ-38. Conduct all source testing and monitoring in accordance with the District approved procedures.	Contact the District for specifications on monitors, ports, platforms and source tests and submit verification of this contact to the District and CPM with the initial source test protocol (AQ-29).	see AQ-27a	Within 180 days of the ATC and at least 7 days prior to the source testing date(s)			Complete	NA	GE	BAAQMD staff (K. Truesdell and W. Hammel) contacted by CCGS (Z. Walley) on 8/1/11 to request CEMS design specs and requirements. BAAQMD staff (K. Truesdell) contacted by OPC (D. Mumm) on 9/12/11 to request CEMS design specs and requirements. Manual of Procedures provided by BAAQMD on 8/5/11, and forwarded to GE and OPC.
AQ	AQ-50	OPS	Comply with the continuous emission monitoring requirements of 40 CFR Part 75.	Submit to the CPM and District the results of audits of the monitoring system demonstrating compliance with this condition as part of the quarterly operation report (AQ-SC9).	Quarterly Operation Report	No later than 30 days following the end of each calendar quarter	Ongoing		Not Started	NA	CCGS	
BIO	BIO-1a	PC	DESIGNATED BIOLOGIST SELECTION: A Designated Biologist shall be assigned to the project, and the resume of the proposed Designated Biologist, with at least 3 references and contact information, shall be submitted to the CPM for approval. The Designated Biologist must meet the minimum qualifications (1) through (3) in this condition.	The specified information shall be submitted at least 60 days prior to the start of any site (or related facilities) mobilization. No site or related facility activities shall commence until an approved Designated Biologist is available to be on site.	DB Resume	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	Rick Crowe (CH2M HILL) is the Designated Biologist.
BIO	BIO-1b	CONS	DESIGNATED BIOLOGIST SELECTION	If a Designated Biologist needs to be replaced, the specified information of the proposed replacement must be submitted to the CPM at least ten (10) working days prior to the termination or release of the preceding Designated Biologist. In an emergency, the project owner shall immediately notify the CPM to discuss the qualifications and approval of a short-term replacement while a permanent Designated Biologist is proposed to the CPM for consideration.	(If Needed)	At least 10 working days prior to the termination or release of the preceding Designated Biologist	Ongoing		As-Needed	NA	CH2	
BIO	BIO-2a	CONS	DESIGNATED BIOLOGIST DUTIES: The Designated Biologist shall perform the duties (1) through (9) during any site (or related facilities) mobilization, ground disturbance, grading, construction, operation, and closure activities. The Designated Biologist may be assisted by the approved Biological Monitor(s), but remains the contact for the project owner and CPM.	The Designated Biologist shall submit in the Monthly Construction Compliance Report to the CPM copies of all written reports and summaries that document biological resources activities. Monthly Compliance Reports shall also be submitted to the East Contra Costa County Habitat Conservancy.	MCR	Monthly	Ongoing		In-progress	NA	CH2/CCGS	

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BIO	BIO-2b	OPS	DESIGNATED BIOLOGIST DUTIES: 1. Advise the project owner's Construction and Operation Managers on the implementation of the biological resources Conditions of Certification.	If actions may affect biological resources during operation, a Designated Biologist shall be available for monitoring and reporting. During project operation, the Designated Biologist shall submit record summaries in the Annual Compliance Report unless their duties are determined to be unnecessary by the CPM.	ACR	As needed and Annually Throughout Operation	Ongoing		Not Started	NA	CCGS	
BIO	BIO-3a	PC	BIOLOGICAL MONITOR QUALIFICATIONS: The project owner's CPM-approved Designated Biologist shall submit the resumes, including at least 3 references and contact information, of the proposed Biological Monitors to the CPM for approval. Biological Monitors training by the Designated Biologist shall include familiarity with the Conditions of Certification and the Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP), WEAP, and all state, federal, and local permits.	Submit the specified information to the CPM for approval no less than 30 days prior to the start of any site (or related facilities) mobilization. The Designated Biologist shall submit a written statement to the CPM confirming that the individual Biological Monitor(s) have been trained including the date when training was completed.	BM's Quals	At least 30 days prior to the start of site mobilization			Complete	NA	CH2	
BIO	BIO-3b	CONS	ADDITIONAL BIOLOGICAL MONITORS	If additional biological monitors are needed during construction, the specified information shall be submitted to the CPM for approval no less than 10 days prior to their first day of monitoring activities.	(If Needed)	No less than 10 days prior to BM's first day of monitoring	Ongoing		As-Needed	NA	CH2	
BIO	BIO-4	OPS	DESIGNATED BIOLOGIST AND BIOLOGICAL MONITOR AUTHORITY: The project owner's Construction/Operation Manager shall act on the advice of the Designated Biologist and Biological Monitor(s) to ensure conformance with the biological resources Conditions of Certification. If required by the Designated Biologist and Biological Monitor(s) all operation activities shall be halted in areas specified by the Designated Biologist. The Designated Biologist shall halt activities in accordance with steps (1) through (3) of this condition. If the Designated Biologist is unavailable for direct consultation, the Biological Monitor shall act on behalf of the Designated Biologist.	The Designated Biologist or Biological Monitor shall notify the CPM immediately (and no later than the following morning of the incident, or Monday morning in the case of a weekend) of any non-compliance or a halt of any activities. The project owner shall notify the CPM of the circumstances and actions being taken to resolve the problem. Whenever corrective action is taken by the project owner, a determination of success or failure will be made by the CPM within 5 working days after receipt of notice that corrective action is completed, or the project owner will be notified by the CPM that coordination with other agencies will require additional time before a determination can be made.	(If Needed)	Immediately	Ongoing		As-Needed	NA	CCGS	
BIO	BIO-4	CONS	DESIGNATED BIOLOGIST AND BIOLOGICAL MONITOR AUTHORITY: The project owner's Construction/Operation Manager shall act on the advice of the Designated Biologist and Biological Monitor(s) to ensure conformance with the biological resources Conditions of Certification. If required by the Designated Biologist and Biological Monitor(s) all site mobilization, ground disturbance, grading and construction activities shall be halted in areas specified by the Designated Biologist. The Designated Biologist shall halt activities in accordance with steps (1) through (3) of this condition. If the Designated Biologist is unavailable for direct consultation, the Biological Monitor shall act on behalf of the Designated Biologist.	The Designated Biologist or Biological Monitor shall notify the CPM immediately (and no later than the following morning of the incident, or Monday morning in the case of a weekend) of any non-compliance or a halt of any activities. The project owner shall notify the CPM of the circumstances and actions being taken to resolve the problem. Whenever corrective action is taken by the project owner, a determination of success or failure will be made by the CPM within 5 working days after receipt of notice that corrective action is completed, or the project owner will be notified by the CPM that coordination with other agencies will require additional time before a determination can be made.	(If Needed)	Immediately	Ongoing		As-Needed	NA	CH2	
BIO	BIO-5a	PC	WORKER ENVIRONMENTAL AWARENESS PROGRAM (WEAP): Develop and implement a CPM-approved WEAP as described in this condition. The specific program can be administered by a competent individual(s) acceptable to the Designated Biologist.	No less than 60 days prior to the start of any site (or related facilities) mobilization, the project owner shall provide to the CPM the proposed WEAP and all supporting written materials and electronic media prepared or reviewed by the Designated Biologist and a resume of the person(s) administering the program.	Draft WEAP	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	
BIO	BIO5b	PC	WORKER ENVIRONMENTAL AWARENESS PROGRAM (WEAP): Develop and implement a CPM-approved WEAP as described in this condition.	At least 10 days prior to site and related facilities mobilization, the project owner shall submit two copies of the CPM-approved materials.	Final WEAP	At least 10 days prior to start of site mobilization			Complete	NA	CH2	
BIO	BIO-5c	CONS	Implement a CPM-approved WEAP in which each employee, as well as employees of contractors and subcontractors who work on the project site or related facilities during site mobilization, ground disturbance, grading, construction, operation, and closure are informed about sensitive biological issues associated with the project site.	The project owner shall provide 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.	MCR	Monthly	Ongoing		In-progress	NA	CCGS	
BIO	BIO-5d	OPS	Implement a CPM-approved WEAP in which each employee, as well as employees of contractors and subcontractors who work on the project site or related facilities during site mobilization, ground disturbance, grading, construction, operation, and closure are informed about sensitive biological issues associated with the project site.	Training acknowledgement forms signed during construction shall be kept on file by the project owner for a period of at least 6 months after the start of commercial operation. During project operation, signed statements for operational personnel shall be kept on file for 6 months following the termination of an individual's employment.	--	At least 6 months after the start of commercial operation	Ongoing		Not Started	NA	CCGS	
BIO	BIO-6a	PC	BIOLOGICAL RESOURCES MITIGATION IMPLEMENTATION AND MONITORING PLAN (BRMIMP): Develop a BRMIMP and submit two copies of the proposed BRMIMP to the CDFG, USFWS, and East Contra Costa County Habitat Conservancy for review and comment and the CPM for approval and implement the measures identified in the approved BRMIMP. The BRMIMP shall be prepared in consultation with the Designated Biologist and shall identify items (1) through (16) of this condition.	Provide the draft BRMIMP to the CPM at least 60 days prior to start of any site (or related facilities) mobilization. The CPM, in consultation with other appropriate agencies.	Draft BRMIMP	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	

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BIO	BIO-6b	PC	BRMIMP - Additional permits	If there are any permits that have not yet been received when the BRMIMP is first submitted, these permits shall be submitted to the CPM within 5 days of their receipt, and the BRMIMP shall be revised or supplemented to reflect the permit condition within 10 days of their receipt by the project owner. Ten days prior to site and related facilities mobilization the revised BRMIMP shall be resubmitted to the CPM.	Revised BRMIMP	At least 10 days prior to the start of site mobilization			Complete	NA	CH2	
BIO	BIO-6c	CONS	BRMIMP - Modifications	The project owner shall notify the CPM no less than 5 working days before implementing any modifications to the approved BRMIMP to obtain CPM approval. Any changes to the approved BRMIMP must also be approved by the CPM in consultation with other appropriate agencies to ensure no conflicts exist.	(If Needed)	At least 5 working days before implementing modification to approved BRMIMP	Ongoing		As-Needed	NA	CH2	
BIO	BIO-6d	CONS	BRMIMP - Monthly Compliance Reports	Implementation of BRMIMP measures will be reported in the Monthly Compliance Reports by the Designated Biologist (i.e., survey results, construction activities that were monitored, species observed).	MCR	Monthly	Ongoing		In-progress	NA	CH2	
BIO	BIO-6e	CONS	BRMIMP - Construction Completion Reports	Within 30 days after completion of project construction, the project owner shall provide to the CPM, for review and approval, a written construction closure report identifying which items of the BRMIMP have been completed, a summary of all modifications to mitigation measures made during the project's site mobilization, ground disturbance, grading, and construction phases, and which mitigation and monitoring items are still outstanding. Additional copies shall be provided to East Contra Costa Habitat Conservancy, CDFG and USFWS.	Construction Closure Report	Within 30 days after completion of project construction	TBD		Not Started	NA	CH2	
BIO	BIO-7a	PC	GENERAL IMPACT AVOIDANCE AND MINIMIZATION MEASURES: Measures (1) through (10) of this condition shall be implemented to avoid and minimize impacts to biological resources from the proposed project during all phases of the project.	All mitigation measures and their implementation methods shall be included in the BRMIMP.	Revised BRMIMP	At least 10 days prior to start of site mobilization			Complete	NA	CH2	
BIO	BIO-7b	CONS	GENERAL IMPACT AVOIDANCE AND MINIMIZATION MEASURES	Implementation of the measures will be reported in the Monthly Compliance Reports by the Designated Biologist. Photographic verification of installation of bird flight diverters will be provided upon installation and will be provided in the Monthly Compliance Report.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
BIO	BIO-7c	CONS	GENERAL IMPACT AVOIDANCE AND MINIMIZATION MEASURES	Within 30 days after completion of project construction, the project owner shall provide to the CPM, for review and approval, a written construction termination report identifying how measures have been completed. Additional copies shall be provided to the East Contra Costa County Habitat Conservancy, CDFG, and USFWS.	Construction Completion (Termination) Report	Within 30 days after completion of project construction	TBD		Not Started	NA	CH2	
BIO	BIO-7d	OPS	GENERAL IMPACT AVOIDANCE AND MINIMIZATION MEASURES		----	----	Ongoing		In-progress	NA	CCGS	Item included to note that General Impact Avoidance and Minimization Measures continue through the life of the project.
BIO	BIO-8a	PC	To comply with various protected tree ordinances, the project owner shall mitigate for loss of protected trees based on the results of the project owner's arborist report. Mitigation will be assessed by the CPM in coordination with City of Oakley based on review of the arborist report.	At least 30 days prior to the start of any tree removal, provide to the CPM for review and approval, and to the City of Oakley and City of Antioch for review and comment, the arborist report which identifies all trees to be removed within the City of Oakley and City of Antioch and all protected trees to remain in place at which grading will occur within the drip line within the City of Antioch.	Arborist Report	At least 30 days prior to the start of any tree removal			Complete	NA	CH2	
BIO	BIO-8b	CONS	Protected Trees.	A copy of the receipt of payment and/or verification of tree replacement to the City of Oakley verifying that the protected tree mitigation fees have been paid, according to the conditions specified in this condition, shall be provided to the CPM prior to tree removal.	Copy of receipt of payment / Tree permit	Prior to tree removal	TBD		In-progress	Permit issued 5/27/11; forwarded to CPM on 5/27/11.	CCGS	
BIO	BIO-8c	CONS	Protected Trees.	A copy of the verification of 2:1 protected tree replacement or the receipt of payment of penalty fees to the City of Antioch, according to the conditions specified above, shall be provided to the CPM prior to tree removal. Prior to tree removal a copy of the receipt of payment of bond will be submitted by the project owner upon posting a bond to the City of Antioch for any protected trees that would have construction or grading within the dripline or written verification that no protected trees are located where construction or grading activities would occur.	Verification Letter/Copy of receipt of payment/Tree permit	Prior to tree removal	TBD		In-progress	NA	CCGS	
BIO	BIO-9a	PC	PRE-CONSTRUCTION NEST SURVEYS AND IMPACT AVOIDANCE AND MINIMIZATION MEASURES: Pre-construction nest surveys shall be conducted if construction activities including tree removal will occur from February 1 through September 15. The Designated Biologist or Biological Monitor shall perform surveys in accordance with the guidelines of this condition.	Prior to the start of any pre-construction site mobilization, provide the CPM and the East Contra Costa County Habitat Conservancy a letter-report describing the findings of the pre-construction nest surveys, including the time, date, and duration of the survey; identity and qualifications of the surveyor(s); and a list of species observed. If active nests are detected during the survey, the report shall include a map or aerial photo identifying the location of the nest and shall depict the boundaries of the no disturbance buffer zone around the nest.	Letter Report	At least 10 days prior to the start of ground disturbing activities		CEC approved on 8/2/11	Complete	NA	CH2	Pre-Construction Nest Survey Report prior to tree removal submitted to CEC on 8/1/11.

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BIO	BIO-9b	PC	PRE-CONSTRUCTION NEST SURVEYS AND IMPACT AVOIDANCE AND MINIMIZATION MEASURES	If active nests are detected during the survey, a monitoring plan shall be submitted to the Conservancy, CDFG and USFWS for review and comment and the CPM for approval. Approval of the plan is required before construction may commence. All impact avoidance and minimization measures related to nesting birds shall be included in the BRMIMP and implemented.	Monitoring Plan	Prior to construction		CEC approved on 8/2/11	Complete	NA	CH2	
BIO	BIO-9c	CONS	PRE-CONSTRUCTION NEST SURVEYS AND IMPACT AVOIDANCE AND MINIMIZATION MEASURES	Implementation of the measures shall be reported in the Monthly Compliance Reports by the Designated Biologist.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
BIO	BIO-9d	CONS	At all times of the year, noise generating activities (above 60 dBA) shall be avoided during dawn and dusk to avoid impacts to birds protected under the Migratory Bird Treaty Act.			Year Round	Ongoing		In-progress	NA	CCGS	
BIO	BIO-10a	PC	IMPACT AVOIDANCE AND MINIMIZATION MEASURES FOR BATS	All mitigation measures and their implementation methods shall be included in the BRMIMP.	BRMIMP (See BIO-6)	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	
BIO	BIO-10b	CONS	IMPACT AVOIDANCE AND MINIMIZATION MEASURES FOR BATS: Implement the measures described in this condition to avoid or minimize impacts on bats.	Implementation of the measures will be reported in the Monthly Compliance Reports by the Designated Biologist.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
BIO	BIO-10c	PC	IMPACT AVOIDANCE AND MINIMIZATION MEASURES FOR BATS: Removal of roost trees.	The resume of the proposed bat biologist will be submitted to the CPM for approval at least 45 days prior to the start of any bat surveys.	Resume of Bat Biologist	At least 45 days prior to start of bat surveys			Complete	NA	CH2	
BIO	BIO-10d	PC	IMPACT AVOIDANCE AND MINIMIZATION MEASURES FOR BATS	A written report summarizing the results of the pre-construction survey shall be sent to the CPM and CDFG no less than 15 days prior to the start of pre-construction site mobilization which will include documentation of any active roost trees to be removed. The report shall describe survey methods, including the time, date, and duration of the survey, identity and qualifications of the surveyor(s), and a list of species observed, a figure showing roost locations observed, and proposed mitigation and exclusion measures.	Survey Report	At least 15 days prior to start of ground disturbance			Complete	NA	CH2	
BIO	BIO-10e	CONS	IMPACT AVOIDANCE AND MINIMIZATION MEASURES FOR BATS	If active roost trees are to be removed, reporting and surveying must be completed as outlined in this condition. Within 10 days of removal of trees with roost sites, the project owner shall submit a report describing the results of the exclusion, mitigation measures, and tree removal.	Bat Exclusion, Mitigation Measures and Tree Removal Report	Within 10 days of removal of roost trees		CEC approved on 8/2/11	Complete	NA	CH2	Pre-Construction Bat Survey Report prior to tree removal submitted to CEC on 8/1/11.
BIO	BIO-11a	PC	SWAINSON'S HAWK IMPACT AVOIDANCE AND MINIMIZATION MEASURES	All mitigation measures and their implementation methods shall be included in the BRMIMP and implemented.	BRMIMP (See BIO-6)	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	
BIO	BIO-11b	CONS	SWAINSON'S HAWK IMPACT AVOIDANCE AND MINIMIZATION MEASURES: If pre-construction surveys locate Swainson's hawk nests in trees which are to be removed, implement the measures to minimize impacts to known Swainson's hawk nests. Tree removal will not occur while the Swainson's hawk nests are active.	If trees with known nests are to be removed while nests are not active, a written report summarizing the results of the pre-construction survey shall be sent to the CPM, the East Contra Costa County Habitat Conservancy (Conservancy), CDFG, and USFWS no less than 15 days prior to the start of ground disturbance which will include documentation of any known nest trees to be removed.	(If Needed)	No less than 15 days prior to the start of ground disturbance	TBD		In-progress	NA	CH2	Pre-construction survey was completed but additional surveys may be needed prior to tree removal.
BIO	BIO-11c	CONS	SWAINSON'S HAWK IMPACT AVOIDANCE AND MINIMIZATION MEASURES	Implementation of the measures will be reported in the Monthly Compliance Reports by the Designated Biologist.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
BIO	BIO-11d	CONS	SWAINSON'S HAWK IMPACT AVOIDANCE AND MINIMIZATION MEASURES	Within 30 days after completion of project construction, provide to the CPM, for review and approval, a written construction termination report identifying how measures have been completed. Additional copies shall be provided to the Conservancy, CDFG, and USFWS. The report will include written verification that any compensation fees for of loss of nest trees have been paid to the Conservancy.	Construction Completion (Termination) Report	Within 30 days after completion of construction	TBD		Not Started	NA	CH2	
BIO	BIO-11e	OPS	Nest trees, including non-native trees, lost to project activities will be mitigated by the project owner according to the requirements of the ECCC HCP/NCCP. Either pay the Conservancy an additional fee to purchase, plant, maintain, and monitor 15 saplings on the HCP/NCCP Preserve System for every tree lost according to the requirements listed below, OR the project owner will plant, maintain, and monitor 15 saplings for every tree lost at a site to be approved by the Conservancy (e.g., within an HCP/NCCP Preserve or existing open space linked to HCP/NCCP preserves).	Annual Reports will be submitted to the CPM and the Conservancy that document compliance with the ECCC HCP/NCCP requirements for planting and the success of any plantings. Additional copies shall be provided to CDFG and USFWS.	Annual Monitoring Report (if needed)	Annually	Ongoing		Not Started	NA	CCGS	
BIO	BIO-12a	PC	BURROWING OWL IMPACT AVOIDANCE AND MINIMIZATION MEASURES: Implement the measures in this condition to manage the construction site, and related facilities, in a manner to avoid or minimize impacts to breeding and foraging burrowing owls. Measures include pre-construction surveys, avoidance and minimization measures.	All avoidance and minimization measures related to burrowing owl shall be included in the BRMIMP and implemented.	BRMIMP (see BIO-6)	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	

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BIO	BIO-12b	CONS	BURROWING OWL IMPACT AVOIDANCE AND MINIMIZATION MEASURES: Implement the measures in this condition to manage the construction site, and related facilities, in a manner to avoid or minimize impacts to breeding and foraging burrowing owls. Measures include pre-construction surveys, avoidance and minimization measures.	Perform Pre-Construction Survey and mapping.	Survey	Within 30 days prior to construction	TBD		In-progress	NA	CH2	Pre-construction surveys were completed but additional surveys will be required prior to the start of T-line and water line construction.
BIO	BIO-12c	CONS	BURROWING OWL IMPACT AVOIDANCE AND MINIMIZATION MEASURES - Preconstruction survey report	Submit a report to the CPM, the East Contra Costa County Habitat Conservancy (Conservancy), CDFG, and USFWS at least 10 days prior to pre-construction site mobilization that describes when surveys were completed, observations, and mitigation measures to be implemented.	Survey Report	At least 10 days prior to ground disturbing activities	TBD		In-progress	NA	CH2	Pre-construction surveys were completed but additional surveys will be required prior to the start of T-line and water line construction.
BIO	BIO-12d	CONS	BURROWING OWL IMPACT AVOIDANCE AND MINIMIZATION MEASURES - Monthly Compliance Reports	Implementation of the measures shall be reported in the monthly compliance reports by the Designated Biologist.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
BIO	BIO-12e	CONS	BURROWING OWL IMPACT AVOIDANCE AND MINIMIZATION MEASURES - Owl Relocation Report	Within 30 days after completion of owl passive relocation and monitoring, and the start of construction-related ground disturbance, the project owner shall provide written verification to the CPM, the Conservancy, USFWS, and CDFG that burrowing owl mitigation measures have been completed.	(If Needed)	Within 30 days after completion of owl relocation & monitoring	Ongoing		As-Needed	NA	CH2	
BIO	BIO-13a	PC	AMERICAN BADGER IMPACT AVOIDANCE AND MINIMIZATION MEASURES: Pre-construction surveys shall be conducted concurrent with the San Joaquin kit fox and burrowing owl pre-construction surveys. Surveys shall be conducted as described in this condition. Den avoidance, monitoring, and destruction methods shall adhere to those impact avoidance and minimization measures prescribed for San Joaquin kit fox in Condition BIO-14.	All avoidance and minimization measures related to American badger shall be included in the BRMIMP and implemented.	BRMIMP (See BIO-6)	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	
BIO	BIO-13b	CONS	AMERICAN BADGER IMPACT AVOIDANCE AND MINIMIZATION MEASURES: Pre-construction surveys shall be conducted concurrent with the San Joaquin kit fox and burrowing owl pre-construction surveys. Surveys shall be conducted as described in this condition. Den avoidance, monitoring, and destruction methods shall adhere to those impact avoidance and minimization measures prescribed for San Joaquin kit fox in Condition BIO-14.	Perform Pre-Construction Survey and mapping.	Survey	Concurrent with Burrowing owl and San Joaquin kit fox surveys	TBD		In-progress	NA	CH2	Pre-construction surveys were completed but additional surveys will be required prior to the start of T-line and water line construction.
BIO	BIO-13c	CONS	AMERICAN BADGER IMPACT AVOIDANCE AND MINIMIZATION MEASURES: Pre-construction surveys shall be conducted concurrent with the San Joaquin kit fox and burrowing owl pre-construction surveys. Surveys shall be conducted as described in this condition. Den avoidance, monitoring, and destruction methods shall adhere to those impact avoidance and minimization measures prescribed for San Joaquin kit fox in Condition BIO-14.	Submit a report to the CPM and CDFG at least 10 days prior to the start of any pre-construction site mobilization that describes when surveys were completed, observations, and mitigation measures to be implemented.	Survey Report	At least 10 days prior to ground disturbing activities	TBD		In-progress	NA	CH2	Pre-construction surveys were completed but additional surveys will be required prior to the start of T-line and water line construction.
BIO	BIO-13d	CONS	AMERICAN BADGER IMPACT AVOIDANCE AND MINIMIZATION MEASURES - Monthly Compliance Reports	Implementation of the measures shall be reported in the monthly compliance reports by the Designated Biologist.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
BIO	BIO-13e	CONS	AMERICAN BADGER IMPACT AVOIDANCE AND MINIMIZATION MEASURES - Construction Completion (Termination) Report	Within 30 days after completion of construction of the project, provide to the CPM a written construction termination report identifying how impact minimization measures have been completed. Additional copies shall be provided to the Conservancy, CDFG, and USFWS.	Construction Completion (Termination) Report	Within 30 days after completion of project construction	TBD		Not Started	NA	CH2	
BIO	BIO-14a	PC	SAN JOAQUIN KIT FOX IMPACT AVOIDANCE AND MINIMIZATION MEASURES: Measures, developed in cooperation with East Contra Costa County Habitat Conservancy (Conservancy), shall be implemented to avoid and minimize impacts to San Joaquin kit fox in accordance with this condition. Measures include pre-construction surveys. If San Joaquin kit fox and/or suitable dens are found measures outlined in this condition shall be implemented. Measures include exclusion zones, den monitoring, and den avoidance (limited destruction of dens may be allowed).	All avoidance and minimization measures related to San Joaquin kit fox shall be included in the BRMIMP and implemented.	BRMIMP (See BIO-6)	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	
BIO	BIO-14b	CONS	SAN JOAQUIN KIT FOX IMPACT AVOIDANCE AND MINIMIZATION MEASURES: Measures, developed in cooperation with East Contra Costa County Habitat Conservancy (Conservancy), shall be implemented to avoid and minimize impacts to San Joaquin kit fox in accordance with this condition. Measures include pre-construction surveys. If San Joaquin kit fox and/or suitable dens are found measures outlined in this condition shall be implemented. Measures include exclusion zones, den monitoring, and den avoidance (limited destruction of dens may be allowed).	The pre-construction survey shall be conducted no more than 30 days prior to the initiation of pre-construction site mobilization on the OGS project site or sanitary sewer line and transmission line corridors.	Survey	No more than 30 days prior to the start of ground disturbance	TBD		In-progress	NA	CH2	Pre-construction surveys were completed but additional surveys will be required prior to the start of T-line and water line construction.
BIO	BIO-14c	CONS	SAN JOAQUIN KIT FOX IMPACT AVOIDANCE AND MINIMIZATION MEASURES - Survey report	A written report summarizing the results of the pre-construction survey shall be sent to the CPM, the East Contra Costa County Habitat Conservancy (Conservancy), CDFG, and USFWS within 5 working days of survey completion and prior to the start of ground disturbance.	Survey Report	5 working days of survey completion and prior to the start of ground disturbance	TBD		In-progress	NA	CH2	Pre-construction surveys were completed but additional surveys will be required prior to the start of T-line and water line construction.

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BIO	BIO-14d	CONS	SAN JOAQUIN KIT FOX IMPACT AVOIDANCE AND MINIMIZATION MEASURES - Monthly Compliance Report	Implementation of the measures shall be reported in the monthly compliance reports by the Designated Biologist.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
BIO	BIO-14e	CONS	SAN JOAQUIN KIT FOX IMPACT AVOIDANCE AND MINIMIZATION MEASURES - Construction Completion Report	Within 30 days after completion of construction the project owner shall provide to the CPM a written construction termination report identifying how impact minimization measures have been completed. Additional copies shall be provided to the Conservancy, CDFG, and USFWS.	Construction Completion (Termination) Report	Within 30 days after completion of project construction	TBD		Not Started	NA	CH2	
BIO	BIO-15a	PC	WESTERN POND TURTLE IMPACT AVOIDANCE AND MINIMIZATION MEASURES: Measures shall be implemented to avoid and minimize impacts to western pond turtle in accordance with this condition. Measures include pre-construction surveys and fencing.	All avoidance and minimization measures related to western pond turtle shall be included in the BRMIMP and implemented	BRMIMP (See BIO-6)	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	
BIO	BIO-15b	CONS	WESTERN POND TURTLE IMPACT AVOIDANCE AND MINIMIZATION MEASURES: Measures shall be implemented to avoid and minimize impacts to western pond turtle in accordance with this condition. Measures include pre-construction surveys and fencing.	Pre-Construction Survey (conducted in accordance with [BIO-16]. 1. Pre-construction surveys shall be conducted concurrent with the giant garter snake pre-construction surveys.	Survey	No more than 24 hours prior to the initiation of construction	TBD		In-progress	NA	CH2	Pre-construction surveys were completed but additional surveys will be required prior to the start of T-line and water line construction.
BIO	BIO-15c	CONS	WESTERN POND TURTLE IMPACT AVOIDANCE AND MINIMIZATION MEASURES - Survey Report	Submit a report to the CPM and CDFG at least 10 days prior to the start of any pre-construction site mobilization that describes when western pond turtle surveys were completed, observations, and mitigation measures to be implemented.	Survey Report	At least 10 days prior to ground disturbing activities	TBD		In-progress	NA	CH2	Pre-construction surveys were completed but additional surveys will be required prior to the start of T-line and water line construction.
BIO	BIO-15d	CONS	WESTERN POND TURTLE IMPACT AVOIDANCE AND MINIMIZATION MEASURES - Monthly Compliance Report	Implementation of the measures shall be reported in the monthly compliance reports by the Designated Biologist.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
BIO	BIO-15e	CONS	WESTERN POND TURTLE IMPACT AVOIDANCE AND MINIMIZATION MEASURES - Construction Completion (Termination) Report	Within 30 days after completion of construction provide to the CPM a written construction termination report identifying how impact minimization measures have been completed. Additional copies shall be provided to the East Contra Costa County Habitat Conservancy and CDFG.	Construction Completion (Termination) Report	Within 30 days after completion of project construction	TBD		Not Started	NA	CH2	
BIO	BIO-16a	PC	GIANT GARTER SNAKE IMPACT, AVOIDANCE AND MINIMIZATION MEASURES: Measures, developed in cooperation with East Contra Costa County Habitat Conservancy (Conservancy) shall be implemented to avoid and minimize impacts to giant garter snake (GGS) in accordance with this condition. Measures include preconstruction surveys, minimization measures, exclusion fencing, and USFWS approvals.	All GGS impact avoidance and minimization measures shall be included in the BRMIMP and implemented.	BRMIMP (See BIO-6)	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	
BIO	BIO-16b	CONS	GIANT GARTER SNAKE IMPACT, AVOIDANCE AND MINIMIZATION MEASURES: Measures, developed in cooperation with East Contra Costa County Habitat Conservancy (Conservancy) shall be implemented to avoid and minimize impacts to giant garter snake (GGS) in accordance with this condition. Measures include preconstruction surveys, minimization measures, exclusion fencing, and USFWS approvals.	The Designated Biologist or a representative approved by the CPM, in consultation with the East Contra Costa County Habitat Conservancy (Conservancy), CDFG, and USFWS, must survey the construction area within potential GGS habitat no more than 24 hours prior to the initiation of construction in the vicinity the GGS habitat along East Antioch Creek.	Survey	No more than 24 hours prior to the initiation of pre-con site mobilization	TBD		In-progress	NA	CH2	Pre-construction surveys were completed but additional surveys will be required prior to the start of T-line and water line construction.
BIO	BIO-16c	CONS	GIANT GARTER SNAKE IMPACT, AVOIDANCE AND MINIMIZATION MEASURES	Another pre-construction survey must be conducted if construction activity ceases for a period of more than 2 weeks.	Additional Survey	if needed	TBD		As-Needed	NA	CH2	
BIO	BIO-16d	CONS	Giant Garter Snake - Survey Report	Submit a report to the Conservancy, USFWS, CDFG, and the CPM documenting results of pre-construction surveys within 24 hours of commencement of construction activities. The project owner shall submit a report to the Conservancy, USFWS, CDFG, and the CPM if any GGS are found within work areas no more than 24 hours after the sighting is made.	Survey Report	Within 24 hours of commencement of construction activities	TBD		In-progress	NA	CH2	Pre-construction surveys were completed but additional surveys will be required prior to the start of T-line and water line construction.
BIO	BIO-16e	CONS	Giant Garter Snake - Monthly Compliance Reports	Implementation of the measures shall be reported in the monthly compliance reports by the Designated Biologist.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
BIO	BIO-16f	CONS	Giant Garter Snake - Construction Completion (Termination) Report	Within 30 days after completion of construction the project owner shall provide to the CPM a written construction termination report identifying how impact minimization measures have been completed. Additional copies shall be provided to the Conservancy, CDFG, and USFWS.	Construction Completion (Termination) Report	Within 30 days after completion of project construction	TBD		Not Started	NA	CH2	
BIO	BIO-17a	PC	The following measures, developed in cooperation with East Contra Costa County Habitat Conservancy (Conservancy) shall be implemented to avoid and minimize impacts to California tiger salamander.	All avoidance and minimization measures related to California tiger salamander shall be included in the BRMIMP and implemented. Implementation of the measures shall be reported in the Monthly Compliance Reports by the Designated Biologist.	BRMIMP (See BIO-6)	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	
BIO	BIO-17b	CONS	Wildlife exclusion fencing and silt fencing shall be installed to protect Wetland D, Wetland E, and Wetland F. "Sensitive Resource Area" signage shall also be installed at each wetland prior to pre-construction site mobilization.			Prior to the start of ground disturbance			Complete	NA	EPC/CH2	
BIO	BIO-17c	CONS	Wildlife exclusion fencing will be installed to protect the riparian habitat along East Antioch Creek in the vicinity of the intersection of the transmission line right-of-way as described under giant garter snake avoidance and minimization measures prior to pre-construction site mobilization.			Prior to start of T-line construction	TBD		In-progress	NA	CH2	Pre-construction surveys were completed but additional surveys will be required prior to the start of T-line and water line construction.

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BIO	BIO-17d	CONS	California Tiger Salamander	Implementation of the measures shall be reported in the monthly compliance reports by the Designated Biologist.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
BIO	BIO-17e	CONS	California Tiger Salamander	Within 30 days after completion of construction, provide to the CPM a written construction termination report identifying how impact minimization measures have been completed. Additional copies shall be provided to the Conservancy, CDFG, and USFWS.	Construction Completion (Termination) Report	Within 30 days after completion of project construction	TBD		Not Started	NA	CH2	
BIO	BIO-18a	PC	The following measures, developed in cooperation with East Contra Costa County Habitat Conservancy (Conservancy) shall be implemented to avoid and minimize impacts to California red-legged frog.	All avoidance and minimization measures related to California red-legged frog shall be included in the BRMIMP and implemented.	BRMIMP (See BIO-6)	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	
BIO	BIO-18b	CONS	Wildlife exclusion fencing will be installed to protect the riparian habitat along East Antioch Creek in the vicinity of the intersection of the transmission line right-of-way as described under giant garter snake avoidance and minimization measures.			Prior to start of T-line construction	TBD		In-progress	NA	CH2	Pre-construction surveys were completed but additional surveys will be required prior to the start of T-line and water line construction.
BIO	BIO-18c	CONS	California Red-legged Frog Impact Avoidance and Minimization Measures - Monthly Compliance Reports	Implementation of the measures shall be reported in the monthly compliance reports by the Designated Biologist.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
BIO	BIO-18d	CONS	California Red-legged Frog Impact Avoidance and Minimization Measures - Construction Completion (Termination) Report	Within 30 days after completion of construction provide to the CPM a written construction termination report identifying how impact minimization measures have been completed. Additional copies shall be provided to the Conservancy, CDFG, and USFWS.	Construction Completion (Termination) Report	Within 30 days after completion of project construction	TBD		Not Started	NA	CH2	
BIO	BIO-19a	PC	Wetland E Monitoring and Adaptive Management Plan: Develop and implement a Wetland E Post-construction Management Plan (Plan). The plan must be prepared in accordance with this condition. The plan must be developed by the project owner in coordination with the CPM and CDFG.	Prior to the start of any construction-related ground disturbance submit a draft Wetland E Monitoring and Adaptive Management Plan to the CPM, California Department of Fish and Game (CDFG), and the Central Valley RWQCB (CV RWQCB). The CPM in consultation with CDFG and the CV RWQCB, will determine the plan's acceptability.	Draft Management Plan	At least 60 days prior to the start of ground disturbance			Complete	NA	CH2	
BIO	BIO-19b	PC	Wetland E Post-construction Management Plan	Prior to the start of any construction-related ground disturbance, provide the CPM with the final version of the Wetland E Monitoring and Adaptive Management Plan that has been reviewed and approved by the CPM, in consultation with CDFG and the CV RWQCB. All modifications to the Wetland E Monitoring and Adaptive Management Plan shall be made only after approval from the CPM, in consultation with CDFG and the CV RWQCB.	Final Management Plan	At least 15 days prior to the start of ground disturbance			Complete	NA	CH2	
BIO	BIO-19c	CONS	Wetland E Post-construction Management Plan	Habitat improvements shall be initiated no later than 12 months from the start of construction.	Habitat improvements	No later than 12 months from the start of construction,	TBD		Not Started	NA	CCGS	
BIO	BIO-19d	CONS	Wetland E Post-construction Management Plan	Within 30 days after completion of project construction, provide to the CPM for review and approval a report identifying which items of the Wetland E Monitoring and Adaptive Management Plan have been completed.	Report	within 30 days after completion of construction	TBD		Not Started	NA	CCGS	
BIO	BIO-19-e	CONS	Wetland E Post-construction Management Plan	Submit annual reports to the CPM, CDFG, and the CV RWQCB describing planting, monitoring, and maintenance activities implemented as well as documentation of compliance with all goals, objectives and performance standards in the Wetland E Monitoring and Adaptive Management Plan. Annual monitoring reports will be submitted to the CPM and CDFG for review and approvals for years 1, 2, 3, 4, and 5, with the first year beginning one year after the habitat improvements are implemented. Habitat improvements are to be implemented concurrently with initiation of the OGS project. Annual monitoring reports shall be submitted to the CPM for review and approval and to the CDFG for review and comment annually within 30 days of the anniversary date of the commencement of habitat improvements for the life of the project.	Annual Monitoring Report	Ongoing throughout the life of the project	Ongoing		Not Started	NA	CCGS	
BIO	BIO-19-f	OPS	Wetland E Post-construction Management Plan	The project owner shall submit an addendum to the CPM for review and approval and to CDFG and CV RWQCB for review and comment prior to implementing adaptive management measures.	Adaptive Management Measures	As-needed	Ongoing		As-Needed	NA	CCGS	

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BIO	BIO-20a	OPS	Antioch Dunes National Wildlife Refuge Funding: Annual payment to California Wildlife Foundation or other third-party approved by USFWS to assist in noxious weed management and its effects at the Antioch Dunes National Wildlife Refuge. Management activities funded may include but are not limited to: captive breeding and release of Lange's metalmark butterfly; propagation and transplantation of naked-stem buckwheat, Contra Costa wallflower, and Antioch Dunes evening primrose; noxious weed eradication using grazing animals, hand tools, and/or appropriate mechanical equipment. The first annual payment shall be no less than $5,000.78. Each subsequent annual payment shall be adjusted for inflation in accordance with the Employment Cost Index – West or its successor, as reported by the U.S. Department of Labor's Bureau of Labor Statistics. Payment shall be made annually for the duration of project operation.	Provide written verification to the CPM, USFWS, and CDFG that the first-annual payment was made to the California Wildlife Foundation or other third-party approved by USFWS in accordance with this condition of certification. The project owner shall provide evidence that it has specified that its annual payment to California Wildlife Foundation or other third-party approved by USFWS can be used only to assist in noxious weed management and remediation of its effects (e.g., activities to support continued survival of Lange's metalmark butterfly, Contra Costa wallflower, and Antioch Dunes evening primrose) at the Antioch Dunes National Wildlife Refuge as directed by the USFWS.	Written Verification	No later than 30 days following the start of project operation	TBD		Not Started	NA	CCGS	
BIO	BIO-20b	OPS	Antioch Dunes National Wildlife Refuge Funding	Annually for the operating life of the project, provide written verification to the CPM, USFWS, and CDFG that payment has been made to the California Wildlife Foundation or other third-party approved by USFWS in accordance with this condition of certification.	Written Verification	Annually - within 30 days after each anniversary date	Ongoing		Not Started	NA	CCGS	
BIO	BIO-20c	OPS	Antioch Dunes National Wildlife Refuge Funding	The project owner also shall request an annual report from the California Wildlife Foundation or other third-party approved by USFWS documenting how each annual payment required hereunder was used and applied to assist in noxious weed management at the Antioch Dunes National Wildlife Refuge. The project owner shall provide copies of such reports to the CPM within thirty (30) days after receipt.	Annual Report	Annually - within 30 days after receipt of report from California Wildlife Foundation	Ongoing		Not Started	NA	CCGS	
BIO	BIO-21	PC	East Contra Costa County Habitat Conservation Plan/Natural Communities Conservation Plan Mitigation Fees: Payment of mitigation fees for temporary and permanent impacts based on the acres of impact (staff assumes a 1:1 mitigation ratio for temporary and permanent impacts) as a one-time development fee of $227,408 or updated fee as adjusted by the East Contra Costa County Habitat Conservancy (Conservancy), pending the approval date and the Annual Adjustment of mitigation fees. As a Participating Special Entity, the project owner would make a $200,000 contribution to recovery of endangered and threatened species. The project owner would also make a contribution to complementary conservation planning as determined by Conservancy's Governing Board.	A copy of the receipt of payment issued to Conservancy, verifying the funds have been paid, shall be provided to the CPM within 30 days prior to site or related facilities mobilization.	Copy of receipt of payment	30 days prior to pre-con site mobilization			Complete	NA	CCGS	
BIO	BIO-22a	PC	East Contra Costa County Habitat Conservation Plan/Natural Communities Conservation Plan Certificate of Inclusion.	The terms and conditions contained in the incidental take permit shall be incorporated into the project's BRMIMP and implemented.	BRMIMP (See BIO-6)	At least 60 days prior to the start of site mobilization			Complete	NA	CH2	
BIO	BIO-22b	PC	East Contra Costa County Habitat Conservation Plan/Natural Communities Conservation Plan Certificate of Inclusion: The project owner shall provide a copy of the final East Contra Costa County Habitat Conservation Plan /Natural Communities Conservation Plan (ECCC HCP/NCCP) Certificate of Inclusion (permit) prior to pre-construction site mobilization.	Within 5 business days of its receipt, the project owner shall submit to the CPM a copy of the East Contra Costa County Habitat Conservancy's Certificate of Inclusion (permit) and verify that the permit terms and conditions are incorporated into the BRMIMP and will be implemented.	Copy of Permit	Within 5 business days of receipt			Complete	NA	CCGS	
BIO	BIO-23	CONS	The project owner shall provide a copy of any U.S. Fish and Wildlife permit issued for the OGS Project (e.g., Incidental Take Permit). The terms and conditions contained in the permit shall be incorporated into the project's BRMIMP and implemented by the project owner.	Project owner shall provide a copy of any USFWS permit issued for the OGS project within 15 days of issuance.	Copy of Permit	if needed	As-needed		Complete	NA	CH2	An ITP is not required. The ECCCHCP/PSE issued on 3/18/11 satisfies the requirement for an ITP.
CIVIL	CIVIL-1a	CONS	Submit to the CBO for review and approval the drainage and grading design, erosion & sediment control plan, related calculations & specifications, and the soils, geotechnical, or foundation reports.	At least 15 days (or project owner- and CBO-approved alternative time frame) prior to the start of site grading, submit the documents described in this condition to the CBO for design review and approval.	Drainage & grading design / DESCP / related calcs & specs / soils, geotechnical, or foundation reports	At least 15 days prior to the start of site grading	Ongoing	CBO approved on 6/3/11	Complete	NA	EPC	
CIVIL	CIVIL-1b	CONS	Submit to the CBO for review and approval the drainage and grading design, erosion & sediment control plan, related calculations & specifications, and the soils, geotechnical, or foundation reports.	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.	MCR	Monthly	Ongoing		Complete	NA	EPC	Submitted in MCR No. 1 on 8/12/11.
CIVIL	CIVIL-2	CONS	The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible engineer identifies unforeseen adverse soil or geologic conditions. Submit modified plans, specifications, and calculations to the CBO based on these new conditions, and obtain approval from the CBO before resuming work.	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. Within 24 hours of the CBO's approval to resume earthwork and construction in the affected areas, provide to the CPM a copy of the CBO's approval.	(If Needed)	Within 24 hours of work stopped	As-needed		As-Needed	NA	EPC	
CIVIL	CIVIL-3a	CONS	Perform inspections in accordance with the 2010 CBC, and this condition. If it is discovered that the work is not being performed in accordance with the approved plans, the discrepancies shall be reported immediately to the resident engineer, the CBO, and the CPM. Prepare a written report, with copies to the CBO and the CPM, detailing all discrepancies, non-compliance items, and the proposed corrective action.	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. Within five days of resolution of the NCR, submit the details of the corrective action to the CBO and the CPM.	(If Needed)	Within five days of the discovery of any discrepancies	As-needed		As-Needed	NA	EPC	

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CIVIL	CIVIL-3b	CONS	Inspections - NCR	A list of NCRs, for the reporting month, shall be included in the following monthly compliance report.	(If Needed)	Monthly	As-needed		As-Needed	NA	EPC	MCR within 5 days following resolution of NCR.
CIVIL	CIVIL-4a	CONS	After completion of finished grading and erosion and sedimentation control and drainage work, obtain the CBO's approval of the final grading plans (including final changes) for the erosion and sedimentation control work. The civil engineer shall state that the work within his/her area of responsibility was done in accordance with the final approved plans.	Within 30 days (or project owner- and CBO-approved alternative time frame) of the completion of the erosion and sediment control mitigation and drainage work, submit to the CBO, for review and approval, the final grading plans (including final changes) and the responsible civil engineer's signed statement that the installation of the facilities and all erosion control measures were completed in accordance with the final approved combined grading plans, and that the facilities are adequate for their intended purposes, along with a copy of the transmittal letter to the CPM.	Final Grading Plans / Signed statement from Civil Engineer	Within 30 days of the completion of the erosion and sediment control mitigation and drainage work	TBD		In-progress	NA	EPC	
CIVIL	CIVIL-4b	CONS	Grading and erosion.	Submit a copy of the CBO's approval to the CPM in the next Monthly Compliance Report.	MCR	Monthly	Ongoing		In-progress	NA	EPC	1-time: MCR following completion of the erosion and sediment control mitigation and drainage work.
CUL	CUL-1a	PC	Obtain the services of a Cultural Resources Specialist (CRS) and one or more alternate CRSs (at the project owner's option). The CRS shall perform duties as described in this condition. No construction-related ground disturbance shall occur prior to Compliance Project Manager (CPM) approval of the CRS and alternates, unless such activities are specifically approved by the CPM. The resumes for the CRS and alternate(s) shall demonstrate to the satisfaction of the CPM that the CRS/alternate CRS has the appropriate training and experience to implement effectively the Conditions, qualifications in accordance with items 1 through 3 of this condition and the names and telephone numbers of contacts familiar with the work of the CRS/alternate CRS on referenced projects.	At least 45 days prior to the start of construction-related ground disturbance, submit the resume for the CRS, and alternate(s) if desired, to the CPM for review and approval.	CRS & Alternates Resume	At least 45 days prior to the start of ground disturbance			Complete	NA	CH2	Clint Helton (CH2M HILL) is the CRS.
CUL	CUL-1b	PC	CRS	At least 10 days prior to the start of construction-related ground disturbance, confirm in writing to the CPM that the approved CRS will be available for onsite work and is prepared to implement the cultural resources conditions.	Confirmation of onsite CRS availability	At least 10 days prior to the start of construction-related ground disturbance			Complete	NA	CH2	
CUL	CUL-1c	CONS	After all ground disturbance is completed and the CRS has fulfilled all responsibilities specified in these cultural resources conditions, the project owner may discharge the CRS, if the CPM approves. With the discharge of the CRS, these cultural resources conditions no longer apply to the activities of this power plant.	At least 10 days prior to a termination or release of the CRS, or within 10 days after the resignation of a CRS, submit the resume of the proposed new CRS, if different from the alternate CRS, to the CPM for review and approval. At the same time, also provide the AFC and all materials described in this condition to the proposed new CRS. If the CRS is terminated and there is no alternate CRS in place to conduct the duties of the CRS, a previously approved monitor may temporarily serve in place of a CRS for a maximum of 3 days. If cultural resources are discovered during that time, then construction-related ground disturbance shall halt and remain halted until there is a CRS or alternate CRS to make a recommendation regarding significance.	(If Needed)	At least 10 days prior to a termination or release of the CRS, or within 10 days after the resignation of a CRS	Ongoing		As-Needed	NA	CH2	
CUL	CUL-1d	PC	The CRS may elect to obtain the services of Cultural Resources Monitors (CRMs), if needed, to assist in monitoring, mitigation, and curation activities. CRMs shall have the following qualifications in accordance with items 1 through 3 for CRMs of this condition.	At least 20 days prior to construction-related ground disturbance, the CRS shall provide a letter to the CPM naming CRMs for the project and attesting that the identified CRMs meet the minimum qualifications for cultural resources monitoring required by this condition.	Letter naming CRMs	At least 20 days prior to ground disturbance			Complete	NA	CH2	
CUL	CUL-1e	CONS	The CRS may elect to obtain the services of additional or alternate Cultural Resources Monitors (CRMs), if needed, to assist in monitoring, mitigation, and curation activities. CRMs shall have the following qualifications in accordance with items 1 through 3 for CRMs of this condition.	At least 5 days prior to additional CRMs beginning on-site duties during the project, the CRS shall provide additional letters to the CPM identifying the CRMs and attesting to their qualifications.	Letter naming CRMs	At least 5 days prior to new CRMs beginning on-site duties (as needed)	Ongoing	CEC approved on 8/17/11 and 8/29/11	In-progress/ As-Needed	NA	CH2	CRS submitted names of additional/alternant CRM to the CEC on 8/15/11 and 8/23/11.
CUL	CUL-1f	CONS	The CRS may elect to obtain the services of other technical specialists, if needed, to assist in monitoring, mitigation, and curation activities. The resume(s) of any additional technical specialist(s), e.g., historical archaeologist, historian, architectural historian, and/or physical anthropologist, shall be submitted to the CPM for approval.	At least 10 days prior to any technical specialists beginning tasks, the resume(s) of the specialists shall be provided to the CPM for review and approval.	As needed technical specialists Quals	At least 10 days prior to any technical specialists beginning tasks	Ongoing		As-Needed	NA	CH2	
CUL	CUL-2a	PC	Prior to the start of construction-related ground disturbance, the start of each phase, and weekly, provide the CRS with the materials described in this condition. No construction-related ground disturbance shall occur prior to CPM approval of maps and drawings, unless such activities are specifically approved by the CPM.	At least 40 days prior to the start of construction-related ground disturbance, provide the AFC, data responses, confidential cultural resources documents, and the Energy Commission FSA to the CRS, if needed, and the subject maps and drawings to the CRS and CPM. The CPM will review submittals in consultation with the CRS and approve maps and drawings suitable for cultural resources planning activities.	Maps and drawings	At least 40 days prior to the start of construction-related ground disturbance			Complete	NA	CH2	
CUL	CUL-2b	CONS	Prior to the start of construction-related ground disturbance, the start of each phase, and weekly, provide the CRS with the materials described in this condition. No construction-related ground disturbance shall occur prior to CPM approval of maps and drawings, unless such activities are specifically approved by the CPM.	At least 15 days prior to the start of construction-related ground disturbance, if there are changes to any construction-related footprint, provide revised maps and drawings for the changes to the CRS and CPM.	Updated maps and drawings	At least 15 days prior to start of construction-related ground disturbance	Ongoing		In-progress	NA	EPC	

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CUL	CUL-2c	CONS	Prior to the start of construction-related ground disturbance, the start of each phase, and weekly, provide the CRS with the materials described in this condition. No construction-related ground disturbance shall occur prior to CPM approval of maps and drawings, unless such activities are specifically approved by the CPM.	At least 15 days prior to each phase of a phased project, provide maps and drawings, if not previously provided, to the CRS and CPM.	Maps and drawings	At least 15 days prior to start of new phase of construction	Ongoing		In-progress	NA	EPC	
CUL	CUL-2d	CONS	Prior to the start of construction-related ground disturbance, the start of each phase, and weekly, provide the CRS with the materials described in this condition. No construction-related ground disturbance shall occur prior to CPM approval of maps and drawings, unless such activities are specifically approved by the CPM.	Weekly during construction-related ground disturbance, a current schedule of anticipated project activity shall be provided to the CRS and CPM by letter, e-mail, or fax.	Current schedule	Weekly during ground disturbance	Ongoing		In-progress	NA	EPC	
CUL	CUL-2e	CONS	The project owner shall notify the CRS and CPM of any changes to the scheduling of the construction phases.	Within 5 days of changing the scheduling of phases of a phased project, provide written notice of the changes to the CRS and CPM.	Change in schedule of phases	Within 5 days of changing schedule	Ongoing		As-Needed	NA	EPC	
CUL	CUL-3a	PC	Submit the Cultural Resources Monitoring and Mitigation Plan (CRMMP), as prepared by or under the direction of the CRS and as described in this condition, to the CPM for review and approval. Implementation of the CRMMP shall be the responsibility of the CRS and the project owner. No construction-related ground disturbance shall occur prior to CPM approval of the CRMMP, unless such activities are specifically approved by the CPM.	Upon approval of the CRS proposed by the project owner, the CPM will provide to the project owner an electronic copy of the draft model CRMMP for the CRS. At least 30 days prior to the start of construction-related ground disturbance, submit the CRMMP to the CPM for review and approval.	Draft CRMMP	At least 30 days prior to the start of construction-related ground disturbance			Complete	NA	CH2	
CUL	CUL-3b	PC	CRMMP	At least 30 days prior to the start of construction-related ground disturbance, in a letter to the CPM, agree to pay curation fees for any materials generated or collected as a result of the archaeological investigations (survey, testing, data recovery).	Letter confirming agreement to pay curation fees	At least 30 days prior to the start of construction-related ground disturbance			Complete	NA	CCGS	
CUL	CUL-3c	CONS	Copies of the CRMMP shall reside with the CRS, alternate CRS, each CRM, and the project owner's on-site construction manager.		--	Throughout Construction	Ongoing		In-progress	NA	CCGS	
CUL	CUL-4a	CONS	Submit the final Cultural Resources Report (CRR) to the CPM for approval. The final CRR shall be prepared as described in this condition.	Within 90 days after completion of construction-related ground disturbance (including landscaping), submit the final CRR to the CPM for review and approval. If any reports have previously been sent to the CHRIS, then receipt letters from the CHRIS or other verification of receipt shall be included in an appendix.	Final CRR	Within 90 days after completion of ground disturbance	TBD		Not Started	NA	CH2	
CUL	CUL-4b	CONS	CRR	Within 90 days after completion of construction-related ground disturbance, if cultural materials requiring curation were generated or collected, provide to the CPM a copy of an agreement with, or other written commitment from, a curation facility that meets the standards stated in the California State Historical Resources Commission's Guidelines for the Curation of Archaeological Collections, to accept cultural materials, if any, from this project. Any agreements concerning curation will be retained and available for audit for the life of the project.	Commitment from Curation Facility	Within 90 days after completion of ground disturbance	Ongoing		As-Needed	NA	CH2	Only applies if cultural materials are recovered that require curation.
CUL	CUL-4c	CONS	CRR	Within 10 days after CPM approval of the CRR, provide documentation to the CPM confirming that copies of the final CRR have been provided to the SHPO, the CHRIS, the curating institution, if archaeological materials were collected, and to the Tribal Chairpersons of any Native American groups requesting copies of construction-related reports.	Confirmation that CRR has been provided to required agencies	Within 10 days after CPM approval of the CRR	TBD		Not Started	NA	CH2	
CUL	CUL-4d	CONS	If the project owner requests a suspension of construction-related ground disturbance and/or construction activities, then a draft CRR that covers all cultural resources activities associated with the project shall be prepared by the CRS and submitted to the CPM for review and approval on the same day as the suspension/extension request. The draft CRR shall be retained at the project site in a secure facility until construction-related ground disturbance and/or construction resumes or the project is withdrawn. If the project is withdrawn, then a final CRR shall be submitted to the CPM for review and approval at the same time as the withdrawal request.	Within 30 days after requesting a suspension of construction activities, submit a draft CRR to the CPM for review and approval. If the project is withdrawn, submit a final CRR at the same time as the withdrawal request.	Draft CRR	Within 30 days after requesting a suspension of construction activities	Ongoing		Not Started	NA	CH2	
CUL	CUL-5a	PC	Prior to and for the duration of construction-related ground disturbance, provide Worker Environmental Awareness Program (WEAP) training, as described in the condition to all new workers within their first week of employment. No construction-related ground disturbance shall occur prior to implementation of the WEAP program, unless such activities are specifically approved by the CPM.	At least 30 days prior to the beginning of construction-related ground disturbance, the CRS shall provide the training program draft text and graphics and the informational brochure to the CPM for review and approval. At least 15 days prior to the beginning of construction-related ground disturbance, the CPM will provide to the project owner a WEAP Training Acknowledgment form for each WEAP-trained worker to sign.	Draft WEAP	At least 30 days prior to the beginning of ground disturbance			Complete	NA	CH2	
CUL	CUL-5b	CONS	WEAP TRAINING	Monthly, until construction-related ground disturbance is completed, provide in the Monthly Compliance Report (MCR) the WEAP Training Acknowledgment forms of workers who have completed the training in the prior month and a running total of all persons who have completed training to date.	Signed WEAP Training Forms	Monthly	Ongoing		In-progress	NA	EPC	

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CUL	CUL-6a	CONS	The CRS, alternate CRS, or CRMs shall monitor full time, as described in this condition, all construction-related ground disturbance at the project site to ensure there are no impacts to undiscovered resources and to ensure that known resources are not impacted in an unanticipated manner. The CRMs shall keep a daily log of monitoring and other cultural resources activities, as specified in this condition. As described in this condition, archaeological monitoring of all earth-moving activities shall be implemented, in the areas specified in this condition, for as long as the CPM requires. The research design in the CRMMP shall govern the collection, treatment, retention/disposal, and curation of any archaeological materials encountered. From the daily monitoring logs, the CRS shall compile a monthly monitoring summary report to be included in the MCR, as specified in this condition.	Monthly, while monitoring is on-going, include in each MCR a copy of the monthly summary report of cultural resources-related monitoring prepared by the CRS and attach any new DPR 523A forms completed for finds treated prescriptively, as specified in the CRMMP. Include reports from CRS of incidents of noncompliance with monitoring described in condition CUL-6h.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
CUL	CUL-6b	CONS	In the event that the CRS believes that a current level of monitoring is not appropriate in certain locations, a letter or e-mail detailing the justification for changing the level of monitoring shall be provided to the CPM for review and approval prior to any change in the level of monitoring.	At least 24 hours prior to implementing a proposed change in monitoring level, submit to the CPM, for review and approval, a letter or e-mail detailing the CRS's justification for changing the monitoring level.	(If Needed)	At least 24 hours prior to implementing a proposed change in monitoring level	Ongoing	CEC approved on 10/27/11	As-Needed	NA	CH2	Email notice to CEC of reduced level of on-site monitoring issued on 9/30/11.
CUL	CUL-6c	CONS	The CRS or alternate CRS shall report daily to the CPM on the status of the project's cultural resources-related activities, unless reducing or ending daily reporting is requested by the CRS and approved by the CPM.	Daily, as long as no cultural resources are found, the CRS shall provide a statement that "no cultural resources over 50 years of age were discovered" to the CPM as an e-mail or in some other form of communication acceptable to the CPM.	Statement of non-discovery	Daily	Ongoing		In-progress	NA	CH2	
CUL	CUL-6d	CONS	CRS	At least 24 hours prior to reducing or ending daily reporting, submit to the CPM, for review and approval, a letter or e-mail (or some other form of communication acceptable to the CPM) detailing the CRS's justification for reducing or ending daily reporting.	Written Justification	At least 24 hours prior to reducing or ending daily reporting	TBD		Not Started	NA	CH2	
CUL	CUL-6e	CONS	A Native American monitor shall be obtained to monitor construction-related ground disturbance in areas where Native American artifacts are discovered and written notification of discoveries of archaeological material of interest to Native Americans shall be sent to those Native Americans who requested to be notified of such discoveries as specified in this condition.	No less than two days after the letter is sent, the CPM shall be copied on all of the information transmittal letters sent to the Chairpersons of the Native American tribes or groups who requested the information following the discovery of any Native American cultural materials. Additionally, submit to the CPM copies of letters of transmittal for all subsequent responses to Native American requests for notification, consultation, and reports and records.	(If Needed)	No less than 2 days after sending letters to Chairpersons of Native American tribes	Ongoing		As-Needed	NA	CCGS	
CUL	CUL-6f	CONS	Native American monitor.	Within 15 days of receiving them, submit to the CPM copies of any comments or information provided by Native Americans in response to the project owner's transmittals of information.	(If Needed)	Within 15 days of receiving comments or information provided by Native Americans	Ongoing		As-Needed	NA	CCGS	
CUL	CUL-6g	CONS	The CRS, may informally discuss cultural resources activities with Energy Commission technical staff. Any interference with monitoring activities, removal of a monitor from duties assigned by the CRS, or direction to a monitor to relocate monitoring activities by anyone other than the CRS shall be considered non compliance. Upon becoming aware of any incidents of non-compliance, the CPM shall be notified within 24 hours. The CRS shall also recommend corrective action.	-	(If Needed)	Within 24 hours of non-compliance	Ongoing		As-Needed	NA	CH2	
CUL	CUL-6h	CONS	If an incident of non-compliance occurs, when the issue is resolved, the CRS shall write a report describing the issue, the resolution of the issue, and the effectiveness of the resolution measures. This report shall be provided in the next MCR for the review of the CPM.	-	(If Needed)	The next MCR after a non-compliance issue occurs	Ongoing		As-Needed	NA	CH2	
CUL	CUL-7a	PC	The CRS, alternate CRS, and CRMs shall have authority to halt construction-related ground disturbance in the event of a cultural resource discovery. Redirection of construction-related ground disturbance shall be accomplished under the direction of the construction supervisor in consultation with the CRS. If the discovery includes human remains, the project owner shall comply with the requirements of Health and Human Safety Code 7050.5(b) and (c). Monitoring and daily reporting as provided in these conditions shall continue during the project's construction-related ground-disturbing activities elsewhere.	At least 30 days prior to the start of construction-related ground disturbance, provide the CPM and CRS with a letter confirming that the CRS, alternate CRS, and CRMs have the authority to halt construction-related ground disturbance in the vicinity of a cultural resources discovery, and that the project owner shall ensure that the CRS notifies the CPM within 24 hours of a discovery, or by Monday morning if the cultural resources discovery occurs between 8:00 AM on Friday and 8:00 AM on Sunday morning.	Letter of confirmation	At least 30 days prior to the start of ground disturbance			Complete	NA	CH2	
CUL	CUL-7b	CONS	In the event of a discovery, the halting or redirection of construction-related ground disturbance shall remain in effect until the CRS has visited the discovery, and measures (1) through (4) of this condition have occurred.	Within 48 hours of the discovery of a resource of interest to Native Americans, the project owner shall ensure that the CRS notifies all Native American groups that expressed a desire to be notified in the event of such a discovery.	(If Needed)	Within 48 hours of the discovery of a resource of interest to Native Americans	Ongoing		As-Needed	NA	CH2	Only required if cultural resource discovered.

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CUL	CUL-7c	CONS	CRS	Unless the discovery can be treated prescriptively, as specified in the CRMMP, completed DPR 523 forms for resources newly discovered during construction-related ground disturbance shall be submitted to the CPM for review and approval no later than 24 hours following the notification of the CPM, or 48 hours following the completion of data recordation/recovery, whichever the CRS decides is more appropriate for the subject cultural resource.	(If Needed)	Within 24 hours following the notification of the CPM, or 48 hours following the completion of data recordation/recovery, whichever the CRS decides is more appropriate	Ongoing		As-Needed	NA	CH2	
ELEC	ELEC-1	CONS	Prior to the start of any increment of electrical construction for electrical equipment and systems 480 Volts or higher (see a representative list in this condition), submit, for CBO design review and approval, the proposed final design, specifications, and calculations. Upon approval, the above listed plans, together with design changes and design change notices, shall remain on the site or at another accessible location for the operating life of the project. Request that the CBO inspect the installation to ensure compliance with the requirements of applicable LORS.	At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of each increment of electrical construction, submit to the CBO for design review and approval the documents listed in this condition. Include a copy of the signed and stamped statement from the responsible electrical engineer attesting compliance with the applicable LORS, and send the CPM a copy of the transmittal letter in the next monthly compliance report.	MCR	Monthly	Ongoing	CBO approved on 8/24/11	In-progress	NA	EPC	Final design, specs, & calcs / RE Statement / Transmittal to CPM, Multi-times: At least 30 days prior to the start of each increment of electrical construction.
GEN	GEN-1a	CONS	The LORS listed in this condition shall be enforced during the design, construction, addition, alteration, moving, demolition, repair, or maintenance of the completed facility. Submit plans, calculations and other related documents that have been specifically developed for the OGS.	Within 30 days following receipt of the certificate of occupancy, submit to the 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.	Statement of Design Verification	Within 30 days following receipt of the certificate of occupancy	TBD		Not Started	NA	EPC	
GEN	GEN-1b	CONS	The LORS listed in this condition shall be enforced during the design, construction, addition, alteration, moving, demolition, repair, or maintenance of the completed facility. Submit plans, calculations and other related documents that have been specifically developed for the OGS.	Provide the CPM a copy of the certificate of occupancy within 30 days of receipt from the CBO.	Certificate of Occupancy	Within 30 days of receiving the certificate of occupancy	TBD		Not Started	NA	EPC	
GEN	GEN-1c	OPS	The LORS listed in this condition shall be enforced during the design, construction, addition, alteration, moving, demolition, repair, or maintenance of the completed facility. Submit plans, calculations and other related documents that have been specifically developed for the OGS.	Once the certificate of occupancy has been issued, inform the CPM at least 30 days prior to any construction, addition, alteration, moving, demolition, repair, or maintenance to be performed on any portion(s) of the completed facility that requires CBO approval for compliance with the above codes. The CPM will then determine if the CBO needs to approve the work.	Notification to CPM	At least 30 days prior to any work on the completed facility that requires CBO approval	As-needed		As-Needed	NA	CCGS	
GEN	GEN-2a	CONS	Before submitting the initial engineering designs for CBO review, provide the CPM and the CBO with a schedule of facility design submittals, and master drawings and master specifications list, as specified in this condition. To facilitate audits by Energy Commission staff, provide specific packages to the CPM upon request.	At least 60 days (or a project owner- and CBO-approved alternative time frame) prior to the start of rough grading, submit to the CBO and to the CPM the schedule, and the master drawings and master specifications list of documents to be submitted to the CBO for review and approval. These documents shall be the pertinent design documents for the major structures, systems, and equipment defined in this condition. Major structures and equipment shall be added to or deleted from the list only with CPM approval.	Schedule, Master Drawings & Specifications Lists	At least 60 days prior to the start of rough grading	Ongoing		In-progress	NA	EPC	
GEN	GEN-2b	CONS	Facility Design	Provide schedule updates in the monthly compliance report.	MCR	Monthly	Ongoing		In-progress	NA	EPC	
GEN	GEN-3	CONS	Make payments to the CBO for design review, plan checks, and construction inspections. These fees may be consistent with the fees listed in the 2010 CBC, adjusted for inflation and other appropriate adjustments; may be based on the value of the facilities reviewed; may be based on hourly rates; or may be otherwise agreed upon by the project owner and the CBO.	The project owner shall make the required payments to the CBO in accordance with the agreement. The project owner shall send a copy of the CBO's receipt of payment to the CPM in the next monthly compliance report indicating that applicable fees have been paid.	MCR	Monthly	Ongoing		In-progress	NA	CCGS	Copy of CBO's Receipt of Payment, Multi-times: In accordance with the agreement.
GEN	GEN-4a	CONS	Prior to the start of rough grading, assign a California- registered architect, or a structural or civil engineer, as the resident engineer (RE) in charge of the project. RE or his/her delegate(s) shall be responsible for the elements listed in this condition.	At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of rough grading, submit to the CBO for review and approval, the resume and registration number of the RE and any other delegated engineers assigned to the project.	RE Resume & Registration Number	At least 30 days prior to the start of rough grading	As-needed	CBO approved OPC RE on 3/28/11	Complete (In-progress)	NA	CCGS	New designated RE to be determined. Engineer designations for TSE-2 remain to be identified.
GEN	GEN-4b	CONS	Site Grading	Notify the CPM of the CBO's approvals of the RE and other delegated engineer(s) within 5 days of the approval.	Notification to CPM	Within 5 days of receiving the approval	As-needed		Complete	NA	CCGS	
GEN	GEN-4c	CONS	If the RE or the delegated engineers are reassigned or replaced, the project owner shall submit the name, qualifications and registration number of the newly assigned engineer to the CBO for review and approval. The project owner shall notify the CPM of the CBO's approval of the new engineer.	If the RE or the delegated engineer(s) is subsequently reassigned or replaced, the project owner has five days to submit the resume and registration number of the newly assigned engineer to the CBO for review and approval.	(If Needed)	Within 5 days of replacing the RE or delegated engineer(s)	As-needed		As-Needed	NA	CCGS	
GEN	GEN-5a	CONS	Prior to rough grading and prior to construction, assign at least one of each of the California registered engineers listed in this condition to the project. The duties of the engineers are outlined in this condition.	At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of rough grading or the start of construction, submit to the CBO for review and approval, resumes and registration numbers of the responsible civil engineer, soils (geotechnical) engineer, engineering geologist, responsible design engineer, mechanical engineer, and electrical engineer assigned to the project.	Engineer Resumes and registration number	At least 30 days prior to the start of rough grading	As-needed	CBO approved on 4/14/11	Complete	NA	CCGS	Ivan Engeman - EE, Shannon Adams - ME, Graylyn Garr - CEC, Wei Tu - CE, and Norman Hoist - Engineering Geologist. CBO approval was issued on 4/14/11, and submitted to the CPM on 4/22/11. Engineer designations for TSE-2 remain to be identified.

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	GEN-5b	CONS	Site Grading	Notify the CPM of the CBO's approvals of the responsible engineers within five days of the approval.	Notification to CPM	Within 5 days of the approval	As-needed		Complete	NA	CCGS	
GEN	GEN-5c	CONS	Site Grading	If the designated responsible engineer is subsequently reassigned or replaced, the project owner has five days in which to submit the resume and registration number of the newly assigned engineer to the CBO for review and approval. The project owner shall notify the CPM of the CBO's approval of the new engineer within five days of the approval.	(If Needed)	Within 5 days of replacing the designated engineer	As-needed		As-Needed	NA	CCGS	
GEN	GEN-6a	CONS	Prior to the start of an activity requiring special inspection, assign to the project, qualified and certified special inspector(s) The special inspector(s) shall preform the duties outlined in this condition.	At least 15 days (or project owner- and CBO-approved alternative time frame) prior to the start of an activity requiring special inspection, 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 in this condition.	Name/Quals of Special Inspector	At least 15 days prior to the start of an activity requiring special inspection	As-needed	CBO approved on 8/24/11	As-Needed	NA	CCGS	Three (3) resumes submitted on 9/28/11.
GEN	GEN-6b	CONS	Special Inspection	Submit to the CPM a copy of the CBO's approval of the qualifications of all special inspectors in the next monthly compliance report.	MCR	Monthly	Ongoing		In-progress	NA	CCGS	1-time: MCR following approval of special inspectors.
GEN	GEN-6c	CONS	Special Inspection	If the special inspector is subsequently reassigned or replaced, the project owner has five days in which to submit the name and qualifications of the newly assigned special inspector to the CBO for approval. Notify the CPM of the CBO's approval of the newly assigned inspector within five days of the approval.	(If Needed)	Within 5 days of replacing the special inspector	As-needed		As-Needed	NA	CCGS	
GEN	GEN-7	CONS	If any discrepancy in design and/or construction is discovered in any engineering work that has undergone CBO design review and approval, document the discrepancy and recommend required corrective actions. The discrepancy documentation shall be submitted to the CBO for review and approval. The discrepancy documentation shall reference this condition and, if appropriate, applicable sections of the CBC and/or other LORS.	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. If any corrective action is disapproved, the project owner shall advise the CPM, within five days, of the reason for disapproval and the revised corrective action to obtain CBO's approval.	(If Needed)	Monthly	As-needed		As-Needed	NA	EPC	MCR following corrective action.
GEN	GEN-8a	CONS	Obtain the CBO's final approval of all completed work that has undergone CBO design review and approval. Request the CBO to inspect the completed structure and review the submitted documents. Notify the CPM after obtaining the CBO's final approval. Retain one set of approved engineering plans, specifications, and calculations (including all approved changes) at the project site or at another accessible location during the operating life of the project. Electronic copies of the approved plans, specifications, calculations, and marked-up as-builts shall be provided to the CBO for retention by the CPM.	Within 15 days of the completion of any work, 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.	MCR	Monthly	Ongoing		In-progress	NA	EPC	Within 15 days of the completion of any work.
GEN	GEN-8b	CONS	CBO	After storing the final approved engineering plans, specifications, and calculations described above, submit to the CPM a letter stating both that the above documents have been stored and the storage location of those documents.	Notification to CPM	After storing the final approved engineering plans, specifications, and calculations	Ongoing		Not Started	NA	CCGS	
GEN	GEN-8c	CONS	CBO	Within 90 days of the completion of construction, provide to the CBO three sets of electronic copies of the above documents at the project owner's expense. These are to be provided in the form of "read only" (Adobe) files, with restricted (password-protected) printing privileges, on archive quality compact discs.	Copies of approved plans/specs/calcs/as-builts	Within 90 days of the completion of construction	TBD		Not Started	NA	CCGS	
HAZ	HAZ-1	OPS	Any hazardous materials not listed in Appendix B shall not be used, or in greater quantities or strengths than those identified by chemical name in Appendix B, unless approved in advance by the CPM.	Provide to the CPM, in the Annual Compliance Report, a list of hazardous materials contained at the facility.	ACR	Annually	Ongoing		Not Started	NA	CCGS	
HAZ	HAZ-2a	CONS	The project owner shall concurrently provide a Hazardous Materials Business Plan (HMBP), an updated Spill Prevention, Control, and Countermeasure Plan (SPCC), and an updated Risk Management Plan (RMP) prepared pursuant to the California Accidental Release Program (CalARP) to the Contra Costa County Health Services Department – Hazardous Materials Program (CCCHSD-HMP) and the CPM for review. The project owner shall consider all recommendations that are made by the CCCHSD and CPM within thirty (30) days of submittal. Copies of any comments received (or if none were received, a letter so stating), the final updated HMBP, updated SPCC Plan, and updated RMP shall then be provided to the CCCHSD-HMP and the East Contra Costa Fire Protection District (ECCFPD) for information and to the CPM for approval.	At least thirty (30) days prior to receiving any hazardous material on the site for commissioning or operations, the project owner shall provide a copy of any comments received (or if none were received, a letter so stating), a final updated Business Plan and updated SPCC Plan to the CCCHSD-HMP for information and to the CPM for approval. At least thirty (30) days prior to delivery of aqueous ammonia to the site, the project owner shall provide any comments received (or if none were received, a letter so stating), and the final updated RMP to the CCCHSD-HMP and the ECCFPD for information and to the CPM for approval.	Final HMBP and SPCC	At least 30 days prior to receiving any hazardous material / aqueous ammonia on the site	TBD		Not Started	NA	CH2	Commissioning/Operations.
HAZ	HAZ-2b	CONS	Copies of the final Hazardous Material Business Plan, SPCC Plan, and RMP shall be provided to the CCCHSD-HMP and the East Contra Costa Fire Protection District (ECCFPD) for information and to the CPM for approval.	At least 30 days prior to delivery of aqueous ammonia to the site, provide any comments received (or if none were received, a letter so stating), and the final RMP to the CCCHSD-HMP and ECCFPD for information and to the CPM for approval.	Final RMP	At least 30 days prior to receiving any hazardous material / aqueous ammonia on the site	TBD		Not Started	NA	CH2	

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HAZ	HAZ-3	CONS	Develop and implement a Safety Management Plan, as outlined in this condition for delivery of aqueous ammonia and other liquid hazardous materials by tanker truck.	At least 30 days prior to the delivery of any liquid hazardous material to the facility, provide a Safety Management Plan as described in this condition to the CPM for review and approval.	Safety Management Plan	At least 30 days prior to the delivery of any liquid hazardous material to the facility	TBD		Not Started	NA	CH2	Commissioning/Operations.
HAZ	HAZ-4	CONS	The aqueous ammonia storage facility shall be designed to either the ASME Pressure Vessel Code and ANSI K61.6 or to API 620, as described in this condition.	At least 60 days prior to delivery of aqueous ammonia to the facility, submit final design drawings and specifications for the ammonia storage tank and secondary containment basin to the CPM for review and approval.	Final design drawings/specs of ammonia storage tank & secondary containment	At least 60 days prior to delivery of aqueous ammonia to the facility	TBD		Not Started	NA	EPC	
HAZ	HAZ-5	CONS	All vendors delivering aqueous ammonia to the site shall use only tanker truck transport vehicles which meet or exceed the specifications of DOT Code MC-307.	At least 30 days prior to receipt of aqueous ammonia on site, submit copies of the notification letter to supply vendors indicating the transport vehicle specifications to the CPM for review and approval.	Notification letters re: transport vehicle specs	At least 30 days prior to receipt of aqueous ammonia on site	TBD		Not Started	NA	EPC	
HAZ	HAZ-6	CONS	The project owner shall direct all vendors delivering any hazardous material to the site to use only the routes approved by the CPM (SR-4 to SR-160 to Wilbur Avenue to Bridgehead Road to the project site, or SR 4/Main Street and turn onto Bridgehead Road to the project site). The project owner shall obtain approval of the CPM if an alternate route is desired.	At least sixty (60) days prior to receipt of any hazardous materials on site, the project owner shall submit copies of the required transportation route limitation direction to the CPM for review and approval	Transportation Route Limitation Direction	At least sixty (60) days prior to receipt of any hazardous materials on site	TBD		Not Started	NA	EPC	
HAZ	HAZ-7	PC	Prior to commencing construction, a site-specific Construction Site Security Plan for the construction phase shall be prepared and made available to the CPM for review and approval. The Construction Security Plan shall include items (1) through (3) of this condition.	At least 30 days prior to commencing construction, notify the CPM that a site-specific Construction Security Plan is available for review and approval.	Construction Security Plan	At least 30 calendar days prior to start of construction			Complete	NA	EPC	
HAZ	HAZ-8a	CONS	Revise an existing or prepare a new site-specific security plan, as described in this condition, for the commissioning and operational phases that will be available to the CPM for review and approval. The level of security to be implemented shall not be less than that described in (1) through (6) of this condition (as per NERC 2002). Fully implement the security plans and obtain CPM approval of any substantive modifications to those security plans.	At least 30 days prior to the initial receipt of hazardous materials on site, notify the CPM that a site-specific operations site security plan is available for review and approval.	Site Specific Operations Security Plan	At least 30 days prior to the initial receipt of hazardous materials on site	TBD		Not Started	NA	EPC/CCGS	Operations Phase.
HAZ	HAZ-8b	OPS	Site Security	In the annual compliance report, include a statement that all current project employee and appropriate contractor background investigations have been performed, and that updated certification statements have been appended to the operations security plan. In the annual compliance report, include a statement that the operations security plan includes all current hazardous materials transport vendor certifications for security plans and employee background investigations.	ACR	Annually	Ongoing		Not Started	NA	CCGS	
HAZ	HAZ-9a	CONS	The project owner shall not allow any fuel gas pipe cleaning activities on site, either before placing the pipe into service or at any time during the lifetime of the facility, that involve "flammable gas blows" where natural (or flammable) gas is used to blow out debris from piping and then vented to atmosphere. Instead, an inherently safer method involving a non-flammable gas (e.g. air, nitrogen, steam) or mechanical pigging shall be used. Exceptions to any of these provisions will be made only if no other satisfactory method is available, and then only with the approval of the CPM.	At least 30 days before any fuel gas pipe cleaning activities involving fuel gas pipe of four-inch or greater external diameter, submit a copy of the Fuel Gas Pipe Cleaning Work Plan which shall indicate the method of cleaning to be used, what gas will be used, the source of pressurization, and whether a mechanical PIG will be used, to the CBO for information and to the CPM for review and approval.	Fuel Gas Pipe Cleaning Work Plan	At least 30 days before fuel gas pipe cleaning activities	TBD		Not Started	NA	CCGS	
HAZ	HAZ-9b	OPS	The project owner shall not allow any fuel gas pipe cleaning activities on site, either before placing the pipe into service or at any time during the lifetime of the facility, that involve "flammable gas blows" where natural (or flammable) gas is used to blow out debris from piping and then vented to atmosphere. Instead, an inherently safer method involving a non-flammable gas (e.g. air, nitrogen, steam) or mechanical pigging shall be used. Exceptions to any of these provisions will be made only if no other satisfactory method is available, and then only with the approval of the CPM.	At least 30 days before any fuel gas pipe cleaning activities involving fuel gas pipe of four-inch or greater external diameter, submit a copy of the Fuel Gas Pipe Cleaning Work Plan which shall indicate the method of cleaning to be used, what gas will be used, the source of pressurization, and whether a mechanical PIG will be used, to the CBO for information and to the CPM for review and approval.	Fuel Gas Pipe Cleaning Work Plan	At least 30 days before fuel gas pipe cleaning activities	Ongoing		Not Started	NA	CCGS	
HAZ	HAZ-10a	CONS	The project owner shall notify the CPM in writing of any new safety and/or reliability legislation, rules, regulations, or standards adopted for natural gas distribution pipelines by the CPUC, NTSB, USDOT, or any other agency with jurisdiction during OGS pipeline construction or operation that are applicable to the OGS project natural gas pipeline. The project owner shall notify the CPM of the regulations and thereafter, consult with PG&E and the CPM regarding the project's feasible compliance with and implementation of the applicable measures.	Within 15 days of the adoption of any new safety and/or reliability legislation, rules, regulations, or standards for natural gas distribution pipelines, that are applicable to the OGS natural gas pipeline, the project owner shall provide the CPM with a written copy of the rule.	Written Notification	If needed, within 15 days of adoption	Ongoing		As-Needed	NA	CCGS	

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HAZ	HAZ-10b	OPS	The project owner shall notify the CPM in writing of any new safety and/or reliability legislation, rules, regulations, or standards adopted for natural gas distribution pipelines by the CPUC, NTSB, USDOT, or any other agency with jurisdiction during OGS pipeline construction or operation that are applicable to the OGS project natural gas pipeline. The project owner shall notify the CPM of the regulations and thereafter, consult with PG&E and the CPM regarding the project's feasible compliance with and implementation of the applicable measures.	Within 15 days of the adoption of any new safety and/or reliability legislation, rules, regulations, or standards for natural gas distribution pipelines, that are applicable to the OGS natural gas pipeline, the project owner shall provide the CPM with a written copy of the rule.	Written Notification	If needed, within 15 days of adoption	Ongoing		As-Needed	NA	CCGS	
MECH	MECH-1a	CONS	Submit, for CBO design review and approval, the proposed final design, specifications and calculations for each plant major piping and plumbing system listed. Upon completion of construction of any such system, request the CBO's inspection. The responsible mechanical engineer shall stamp and sign all plans, drawings, and calculations for the major piping and plumbing systems, subject to CBO design review and approval, and submit a signed statement to the CBO when the proposed piping and plumbing systems have been designed, fabricated, and installed in accordance with all of the applicable LORS.	At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of any increment of major piping or plumbing construction listed in the CBO-approved master drawing and master specifications list, submit to the CBO for design review and approval the final plans, specifications, and calculations, including a copy of the signed and stamped statement from the responsible mechanical engineer certifying compliance with applicable LORS, and send the CPM a copy of the transmittal letter in the next monthly compliance report.	Final design plans, Specs & Calcs Engineer certification w/ transmittal to CPM	Multi-times: At least 30 days prior to the start of any increment of major piping or plumbing construction listed in the CBO-approved master drawing and specifications list	Ongoing		Not Started	NA	EPC	
MECH	MECH-1b	CONS	Final Design	Transmit to the CPM, in the monthly compliance report following completion of any inspection, a copy of the transmittal letter conveying the CBO's inspection approvals.	MCR	Monthly	Ongoing		In-progress	NA	EPC	In the following MCR.
MECH	MECH-2a	CONS	For all pressure vessels installed in the plant, submit to CBO and Cal-OSHA, prior to operation, the code certification papers and other documents required by applicable LORS. Upon completion of the installation of any pressure vessel, request the appropriate CBO and/or Cal-OSHA inspection of that installation.	At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of on-site fabrication or installation of any pressure vessel, submit to the CBO for design review and approval, the documents listed in this condition, including a copy of the signed and stamped engineer's certification, with a copy of the transmittal letter to the CPM.	See condition text for document list	At least 30 days prior to the start of on-site fabrication or installation of any pressure vessel	Ongoing		Not Started	NA	EPC	
MECH	MECH-2b	CONS	Pressure Vessels	Transmit to the CPM, in the monthly compliance report following completion of any inspection, a copy of the transmittal letter conveying the CBO and/or Cal-OSHA inspection approvals.	MCR	Monthly	Ongoing		In-progress	NA	EPC	Copy of transmittal in the following MCR.
MECH	MECH-3	CONS	Submit to the CBO for design review and approval, specifications, calculations, and quality control procedures for any heating, ventilating, air conditioning (HVAC) or refrigeration system. Packaged HVAC systems, where used, shall be identified with the appropriate manufacturer's data sheets. Design and install all HVAC and refrigeration systems in accordance with applicable codes. Upon completion of any increment of construction, request the CBO's inspection. The final plans, specifications and calculations shall include approved criteria, assumptions, and methods. In addition, the responsible mechanical engineer shall sign and stamp all plans, drawings and calculations and submit a signed statement to the CBO that the proposed final design plans, specifications and calculations conform with the applicable LORS.	At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of construction of any HVAC or refrigeration system, 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.	HVAC & refrigeration calcs, plans, and specs / ME statement / Transmittal to CPM	At least 30 days prior to the start of construction of any HVAC or refrigeration system	Ongoing		Not Started	NA	EPC	
NOISE	NOISE-1a	CONS	PUBLIC NOTIFICATION PROCESS	Notify all residents within one mile of the project site boundaries and within ½-mile of the linear facilities, of the commencement of project construction. Establish a telephone number, as outlined in this condition for use by the public to report any undesirable noise conditions, and include the telephone number in above notice.	Public Notification	At least 15 days prior to the start of ground disturbance	TBD		Not Started	NA	CH2	Notice was provided for OGS project site and water line. Still need to provide additional notice prior to the start of T-line construction.
NOISE	NOISE-1b	CONS	PUBLIC NOTIFICATION PROCESS	At least 15 days prior to the start of demolition, transmit to the CPM a statement, signed by the project owner's project manager, stating that the notification has been performed, and describing the method of that notification. This communication shall also verify that the telephone number has been established and posted at the site, and shall provide that telephone number.	Confirmation of public notification & establishment of telephone number	At least 15 days prior to the start of ground disturbance	TBD		Not Started	NA	CCGS	Notice was provided for OGS project site and water line. Still need to provide additional notice prior to the start of T-line construction.
NOISE	NOISE-1c	OPS	PUBLIC NOTIFICATION PROCESS	Verification that the telephone number was maintained for at least one year after the project was operational.	Verification Letter	One year after project has been operational	Ongoing		Not Started	NA	CCGS	
NOISE	NOISE-2a	CONS	NOISE COMPLAINT PROCESS: Throughout the construction of the project, document, investigate, evaluate, and attempt to resolve all project-related noise complaints, as outlined in this condition.	Within five days of receiving a noise complaint, file a Noise Complaint Resolution Form, with both the local jurisdiction and the CPM, that documents the resolution of the complaint.	Noise Complaint Resolution Form	Within five days of receiving a noise complaint	Ongoing		As-Needed	NA	CCGS	
NOISE	NOISE-2b	CONS	NOISE COMPLAINT PROCESS: Throughout the construction of the project, document, investigate, evaluate, and attempt to resolve all project-related noise complaints, as outlined in this condition.	If mitigation is required to resolve a noise complaint, and the complaint is not resolved within a three-day period, submit an updated Noise Complaint Resolution Form when the mitigation is performed and complete.	Updated Noise Complaint Resolution Form	As-needed	Ongoing		As-Needed	NA	CCGS	
NOISE	NOISE-2c	OPS	NOISE COMPLAINT PROCESS: Throughout the operation of the project, document, investigate, evaluate, and attempt to resolve all project-related noise complaints, as outlined in this condition.	Within five days of receiving a noise complaint, file a Noise Complaint Resolution Form, with both the local jurisdiction and the CPM, that documents the resolution of the complaint.	Noise Complaint Resolution Form	Within five days of receiving a noise complaint	Ongoing		As-Needed	NA	CCGS	

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NOISE	NOISE-2d	OPS	NOISE COMPLAINT PROCESS: Throughout the operation of the project, document, investigate, evaluate, and attempt to resolve all project-related noise complaints, as outlined in this condition.	If mitigation is required to resolve a noise complaint, and the complaint is not resolved within a three-day period, submit an updated Noise Complaint Resolution Form when the mitigation is performed and complete.	Updated Noise Complaint Resolution Form	As-needed	As-needed		As-Needed	NA	CCGS	
NOISE	NOISE-3a	PC	Submit to the CPM for review and approval a noise control program and to reduce employee exposure to high (above permissible) noise levels during construction in accordance to the applicable OSHA and Cal-OSHA standards.	At least 30 days prior to the start of ground disturbance, submit the noise control program to the CPM. Make the program available to Cal-OSHA upon request.	Noise Control Program	At least 30 days prior to the start of ground disturbance			Complete	NA	EPC	
NOISE	NOISE-3b	PC	Submit to the CPM a statement verifying that the noise control program will be implemented throughout construction of the project.	At least 30 days prior to the start of ground disturbance, submit the statement signed by project manager to the CPM.	Signed Project Owner's Statement	At least 30 days prior to the start of ground disturbance			Complete	NA	CCGS	
NOISE	NOISE-4a	CONS	NOISE RESTRICTIONS: The project design and implementation shall include appropriate noise mitigation measures as described in this condition.	The 25-hour community noise survey shall take place within 30 days of the project first achieving a sustained output of 90% or greater of rated capacity.	--	Within 30 days of the project first achieving a sustained output of 90% or greater of rated capacity	TBD		Not Started	NA	CH2	
NOISE	NOISE-4b	CONS	NOISE RESTRICTIONS	Within 15 days after completing the survey, submit a summary report of the survey to the CPM. Included in the survey report will be the measures described in this condition. Included in the survey report will be a description of any additional mitigation measures necessary to achieve compliance with the above listed noise limit, and a schedule, subject to CPM approval, for implementing these measures.	Survey Summary Report	Within 15 days after completing the noise survey	TBD		Not Started	NA	CH2	
NOISE	NOISE-4c	CONS	NOISE RESTRICTIONS	If additional noise mitigation measure are required, the noise survey shall be repeated after implementation of additional mitigation measures.	--	As-needed	Ongoing		As-Needed	NA	CH2	
NOISE	NOISE-5	CONS	Following the project's attainment of a sustained output of 85% or greater of its rated capacity, conduct an occupational noise survey to identify any noise hazardous areas in the facility. A report shall be prepared of the survey results and, if necessary, proposed mitigation measures to be employed in order to comply with the applicable California and federal regulations.	Within 30 days after completing the occupational noise survey, submit the noise survey report to the CPM. Make the report available to OSHA and Cal-OSHA upon request.	Occupational Noise Survey Report	Within 30 days after completing the occupational noise survey	TBD		Not Started	NA	CH2	
NOISE	NOISE-6a	CONS	STEAM BLOW RESTRICTIONS: If a traditional, high-pressure steam blow process is employed, the project owner shall equip steam blow piping with a temporary silencer that quiets the noise of steam blows to no greater than 68 dBA Leq measured at monitoring location M2 and no greater than 64 dBA Leq measured at monitoring location M1. The project owner shall conduct high pressure steam blows only between the hours of 9:00 a.m. to 7:00 p.m.	At least 15 days prior to the first high-pressure 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.	High pressure steam blow plan	At least 15 days prior to the first high-pressure steam blow	TBD		Not Started	NA	EPC	
NOISE	NOISE-6b	CONS	STEAM BLOW RESTRICTIONS: If a low-pressure continuous steam blow process is employed, the project owner shall submit a description of this process, with expected noise levels and projected hours of execution, to the CPM.	At least 15 days prior to any low-pressure continuous steam blow, the project owner shall submit to the CPM drawings or other information describing the process, including the noise levels expected and the projected time schedule for execution of the process.	Low pressure steam blow plan	At least 15 days prior to any low-pressure continuous steam blow	TBD		Not Started	NA	EPC	
NOISE	NOISE-7a	CONS	STEAM BLOW RESTRICTIONS: The project owner shall notify all residents or business owners within one mile of the site of the planned steam blow activity, and shall make the notification available to other area residents in an appropriate manner.	---	Public Notification	At least 15 days prior to the first steam blow(s)	TBD		Not Started	NA	CCGS	
NOISE	NOISE-7b	CONS	STEAM BLOW RESTRICTIONS: The project owner shall send a letter to the CPM confirming that they have been notified of the planned steam blow activities, including a description of the method(s) of that notification	---	Confirmation letter	Within five (5) days of notifying all residents or business owners	TBD		Not Started	NA	CCGS	
NOISE	NOISE-8	PC	CONSTRUCTION TIME RESTRICTIONS: Heavy equipment operation and noisy construction work, including pile driving, shall be restricted to the times delineated in this condition. Haul trucks and other engine-powered equipment shall be equipped with adequate mufflers. Haul trucks shall be operated in accordance with posted speed limits. Truck engine exhaust brake use shall be limited to emergencies. Variance from the above-noted restrictions may be allowed upon issuance of a variance or waiver by the CPM, in consultation with the City of Oakley.	Prior to ground disturbance, a statement acknowledging that the restrictions in this condition will be observed throughout the construction of the project shall be transmit to the CPM, unless a variance or waiver from the above-noted restrictions has been approved by the CPM.	Statement of acknowledgement	Prior to ground disturbance			Complete	NA	EPC	
PAL	PAL-1a	PC	Provide the CPM with the resume and qualifications of the PRS for review and approval. The PRS and Paleontological Resource Specialist (PRS) shall meet the minimum qualifications described in this condition.	At least 60 days prior to the start of ground disturbance, submit a resume and statement of availability of its designated PRS for on-site work.	PRS Resume & Statement of Availability	At least 60 days prior to the start of ground disturbance			Complete	NA	CH2	
PAL	PAL-1b	PC	Ensure that the PRS obtains qualified Paleontological Resource Monitors (PRMs) to monitor as he or she deems necessary on the project. PRMs shall have the equivalent of the qualifications described in this condition.	At least 20 days prior to ground disturbance, provide a letter with resumes naming anticipated monitors, stating that the identified monitors meet the minimum qualifications for paleontological resource monitoring required by the condition.	PRM Resumes & Quals	At least 20 days prior to ground disturbance			Complete	NA	CH2	
PAL	PAL-1c	CONS	If a PRM is replaced, the resume of the replacement PRM shall also be provided to the CPM. Keep resumes on file for qualified PRM.	If additional monitors are obtained during the project, provide additional letters and resumes to the CPM. The letter shall be provided to the CPM no later than one week prior to the monitor's beginning on-site duties.	(If Needed)	At least 1 week prior to the monitor beginning duties	Ongoing		As-Needed	NA	CH2	

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PAL	PAL-2a	PC	Provide to the PRS and the CPM, for approval, maps and drawings showing the footprint of the project, as described in this condition. If construction of the project proceeds in phases, maps and drawings may be submitted prior to the start of each phase. A letter identifying the proposed schedule of each project phase shall be provided to the PRS and CPM. The PRS or PRM shall consult weekly with the project superintendent or construction field manager to confirm area(s) to be worked the following week.	At least 30 days prior to the start of ground disturbance, provide the maps and drawings to the PRS and CPM.	Maps and drawings	At least 30 days prior to the start of ground disturbance			Complete	NA	EPC	
PAL	PAL-2b	CONS	If the footprint of the project or its linear facilities change, the project owner shall provide maps and drawings reflecting those changes to the PRS and CPM.	If there are changes to the footprint of the project, revised maps and drawings shall be provided to the PRS and CPM at least 15 days prior to the start of ground disturbance.	(If Needed)	At least 15 days prior to the start of ground disturbance	As-needed		As-Needed	NA	EPC	
PAL	PAL-2c	CONS	Before work commences on affected phases, the project owner shall notify the PRS and CPM of any construction phase scheduling changes.	If there are changes to the scheduling of the construction phases, submit a letter to the CPM within 5 days of identifying the changes.	(If Needed)	Within 5 days of identifying the changes	As-needed		As-Needed	NA	EPC	
PAL	PAL-3	PC	A paleontological resources monitoring and mitigation plan (PRMMP) shall be include elements (1) through (10) as specified in this condition and submitted to the CPM for review and approval to identify general and specific measures to minimize potential impacts to significant paleontological resources. Copies of the PRMMP shall reside with the PRS, each monitor, the project owner's on-site manager, and the CPM.	At least 30 days prior to ground disturbance, provide a copy of the PRMMP to the CPM. The PRMMP shall include an affidavit of authorship by the PRS, and acceptance of the PRMMP by the project owner evidenced by a signature.	PRMMP	At least 30 days prior to ground disturbance			Complete	NA	CH2	
PAL	PAL-4a	PC	Worker Environmental Awareness Program: Prior to ground disturbance and for the duration of construction activities involving ground disturbance, as described in this condition, prepare and conduct weekly CPM-approved paleontological resources training for the workers specified in this condition. The training shall include elements (1) through (7) of this condition.	At least 30 days prior to ground disturbance, submit the proposed WEAP, including the brochure, with the set of reporting procedures for workers to follow. At least 30 days prior to ground disturbance, the project owner shall submit the script/final video to the CPM for approval if the project owner is planning to use a video for interim training.	Proposed WEAP, script, and final video	At least 30 days prior to ground disturbance			Complete	NA	CH2	
PAL	PAL-4b	CONS	WEAP TRAINING	If the owner requests an alternate paleontological trainer, the resume and qualifications of the trainer shall be submitted to the CPM for review and approval prior to installation of an alternate trainer. Alternate trainers shall not conduct training prior to CPM authorization.	(If Needed)	Prior to installation of an alternate trainer	Ongoing		As-Needed	NA	CH2	
PAL	PAL-4c	CONS	WEAP TRAINING	In the MCR, provide copies of the WEAP certification of completion forms with the names of those trained and the trainer or type of training (in-person or video) offered that month. The MCR shall also include a running total of all persons who have completed the training to date.	MCR	Monthly	Ongoing		In-progress	NA	EPC	
PAL	PAL-5a	CONS	The PRS and PRM(s) shall monitor consistent with the PRMMP all construction-related grading, excavation, trenching, and augering in areas where potential fossil-bearing materials have been identified. The PRS and PRM(s) have the authority to halt or redirect construction if paleontological resources are encountered. Monitoring activities shall be conducted as in accordance with (1) through (4) of this condition. A summary of monitoring and other paleontological activities shall be included placed in the MCRs, as described by this condition.	The PRS shall submit the summary of monitoring and paleontological activities in the MCR.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
PAL	PAL-5b	CONS	Any change of monitoring from the accepted schedule in the PRMMP shall be proposed in a letter or email from the PRS and the project owner to the CPM prior to the change in monitoring and will be included in the monthly compliance report. The letter or email shall include the justification for the change in monitoring and be submitted to the CPM for review and approval. In the event that the PRS determines full-time monitoring is not necessary in locations that were identified as potentially fossil-bearing in the PRMMP, the project owner shall notify and seek the concurrence of the CPM.	When feasible, the CPM shall be notified 10 days in advance of any proposed changes in monitoring different from the plan identified in the PRMMP. If there is any unforeseen change in monitoring, the notice shall be given as soon as possible prior to implementation of the change	(If Needed)	At least 10 days in advance of any proposed changes in monitoring, when feasible	Ongoing		As-Needed	NA	CH2	
PAL	PAL-6a	OPS	All components of the PRMMP shall be adequately performed including collection of fossil materials, preparation of fossil materials for analysis, analysis of fossils, identification and inventory of fossils, the preparation of fossils for curation, and the delivery for curation of all significant paleontological resource materials encountered and collected during project construction.	Maintain in the compliance file copies of signed contracts or agreements with the designated PRS and other qualified research specialists for a period of three years after project completion and approval of the CPM-approved paleontological resource report (see PAL-7).	--	For 3 years after project completion	Ongoing		Not Started	NA	CCGS	
PAL	PAL-6b	CONS	PRMMP	Pay any curation fees charged by the museum for fossils collected and curated as a result of paleontological mitigation. A copy of the letter of transmittal submitting the fossils to the curating institution shall be provided to the CPM.	(If Needed)	Following transmittal of fossils	Ongoing		As-Needed	NA	CCGS	
PAL	PAL-7	CONS	The Paleontological Resources Report (PRR) shall be prepared by the designated PRS following completion of the ground-disturbing activities. The PRR shall include the elements described in this condition.	Within 90 days after completion of ground-disturbing activities, including landscaping, submit the PRR under confidential cover to the CPM.	Paleontological Resources Report	Within 90 days after completion of ground-disturbing activities	TBD		Not Started	NA	CH2	
PUBLIC HEALTH	PUBLIC HEALTH-1	CONS	Develop and implement a Cooling Water Management Plan that is consistent with either staff's *Cooling Water Management Program Guidelines* or the Cooling Technology Institute's *Best Practices for Control of Legionella* guidelines.	At least 30 days prior to the start of cooling tower construction, the Cooling Water Management Plan shall be provided to the Compliance Project Manager for review and approval.	Cooling Water Management Plan	At least 30 days prior to the start of cooling tower construction	TBD		Not Started	NA	CCGS	

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SOCIO	SOCIO-1	PC	The project owner shall pay to the city of Oakley the Park Land Dedication Fee, Park Improvement Fee, Public Facilities Fee and the Fire Facilities Fee.	At least 15 days prior to the start of project construction, the project owner shall provide the Compliance Project Manager (CPM) proof of payment to the city of Oakley for the Park Land Dedication Fee, Park Improvement Fee, Public Facilities Fee and the Fire Facilities Fee.	Payment / Proof of payment	At least 30 days prior to start of construction			Complete	NA	CCGS	
SOCIO	SOCIO-2	PC	Pay the one-time statutory school facility development fee to Antioch Unified School District as required by Education Code Section 17620.	At least 30 days prior to the start of project construction, provide to the CPM proof of payment of the statutory development fee.	Payment / Proof of payment	At least 30 days prior to start of construction			Complete	NA	CCGS	
S&W	SOIL & WATER-1a	PC	Obtain CPM approval for a site-specific Drainage, Erosion, and Sedimentation Control Plan / Stormwater Control Plan (DESCP / SWCP) that ensures protection of water quality and soil resources of the project site for both the construction and operational phases of the project. The DESCP shall contain elements (1) through (11) of this condition.	No later than 90 days prior to start of site mobilization, submit a copy of the DESCP to City of Oakley, Contra Costa Clean Water Program, and the Central Valley RWQCB (CV RWQCB) for review and comment.	DESCP	At least 90 days prior to the start of site mobilization		SWRCB certified in 6/11	Complete	NA	CH2	Submitted to CEC on 3/25/11. Updated on 6/15/11. Amendment No. 1 for additional laydown yard/parking area submitted to SWRCB on 10/5/11.
S&W	SOIL & WATER-1b	PC	DESCP	A copy of the DESCP shall be submitted to the CPM no later than 60 days prior to the start of site mobilization for review and approval. The CPM shall consider comments received from City, CCCWP and/or CV RWQCB.	DESCP	At least 60 days prior to the start of site mobilization		SWRCB certified in 6/11	Complete	NA	CH2	Submitted to CEC on 3/25/11. Updated on 6/15/11. Amendment No. 1 for additional laydown yard/parking area submitted to SWRCB on 10/5/11.
S&W	SOIL & WATER-1c	CONS	DESCP	During construction, provide an analysis in the monthly compliance report on the effectiveness of the drainage-, erosion- and sediment-control measures and the results of monitoring and maintenance activities.	MCR	Monthly	Ongoing		In-progress	NA	CCGS	
S&W	SOIL & WATER-1d	OPS	DESCP	Once operational, provide in the annual compliance report information on the results of stormwater BMP monitoring and maintenance activities.	ACR	Annually	Ongoing		Not Started	NA	CCGS	
S&W	SOIL & WATER-1e	CONS	DESCP	No later than 14 days prior to the transfer of ownership of the soil stockpiles to DuPont, submit a letter to the CPM from DuPont indicating that DuPont will assume responsibility to maintain the stockpiles in accordance with the approved Soil Stockpile BMP Plan.	Letter to CPM	No later than 14 days prior to transfer of ownership of soil stockpiles	TBD		Not Started	NA	CCGS	
S&W	SOIL & WATER-2a	CONS	Comply with the requirements of the General National Pollutant Discharge Elimination System (NPDES) permit for discharges of storm water associated with construction activity. In order to comply, develop and implement a Construction Storm Water Pollution Prevention Plan (Construction SWPPP) for the construction of the OGS site, laydown areas, and all linear facilities.	Prior to site mobilization, submit a copy of the construction SWPPP to the CPM for review.	Construction SWPPP	Prior to site mobilization	Ongoing	SWRCB certified in 6/11	Complete	NA	CH2	Submitted to CEC on 3/25/11. Updated on 6/15/11. Amendment No. 1 for additional laydown yard/parking area submitted to SWRCB on 10/5/11.
S&W	SOIL & WATER-2b	CONS	Construction SWPPP.	The project owner shall submit copies to the CPM of all correspondence between the project owner and the CV RWACB regarding the NPDES permit for the discharge of stormwater associated with construction activity within 10 days of its receipt or submittal.	Copies of NPDES Correspondence	Within 10 days of receipt or submittal	Ongoing		In-progress	NA	CCGS	
S&W	SOIL & WATER-3a	CONS	If groundwater is encountered during construction or operation of the OGS, the project owner shall comply with the requirements of the Central Valley RWQCB Order NO. R5-2008-0081 for Waste Discharge Requirements for Dewatering and Other Low Threat Discharges to Surface Waters	Prior to any groundwater discharge or dewatering activities, the project owner shall submit a complete Notice of Intent (NOI) to obtain coverage under Central Valley RWQCB Order No. R5-2008-0081.	Notice of Intent	Prior to any groundwater discharge or dewatering activities	As-needed		As-Needed	NA	CH2	
S&W	SOIL & WATER-3b	CONS	Groundwater	Submit copies to the CPM of all correspondence between the project owner and the Central Valley RWQCB regarding Order No. R5-2008-0081, including the NOI, within 10 days of its receipt or submittal.	Correspondence	Within 10 days of receipt or submittal	As-needed		As-Needed	NA	CCGS	
S&W	SOIL & WATER-4a	CONS	Freshwater supplied by the potable connection with Diablo Water District (DWD) shall be used as the primary water supply for project operation for process, sanitary, and landscape irrigation purposes.	Prior to using potable and recycled water for construction or operational uses, the project owner shall submit to the CPM evidence that metering devices have been installed and are operational on the water supply and distribution systems. When the metering devices are serviced, tested and calibrated, the project owner shall provide a report summarizing these activities in the next annual compliance report. Those metering devices shall be operational for the life of the project.	Verification Letter/Initial ACR	At least 60 days prior to commercial operation	TBD		Not Started	NA	CCGS	
S&W	SOIL & WATER-4b	OPS	Water	The project owner shall monitor and record the total water used, in gallons per day, on a monthly basis including recycled water from ISD and potable water from DWD.	ACR	Annually	Ongoing		Not Started	NA	CCGS	
S&W	SOIL & WATER-4c	OPS	Freshwater use shall not exceed the annual water use-limit of 250 acre-feet per year.	The project owner, in the annual compliance report, shall provide a Water Use Summary that states the source and quantity of potable and recycled water used on a monthly basis and on an annual basis in units of acre-feet. The project owner shall include in the annual compliance report information sufficient for the CPM to determine the status of the recycled water program being implemented by ISD and which criteria for use of recycled water have been met and what remains to be completed to satisfy the criteria for use of recycled water. Prior annual water use including yearly range and yearly average shall be reported in subsequent annual compliance reports (ACR).	ACR	Annually	Ongoing		Not Started	NA	CCGS	
S&W	SOIL & WATER-4d	OPS	Water	The Project owner shall notify the CPM of any disruptions in the primary recycled water supply exceeding 24 hours.	Notification	As-needed	As-needed		As-Needed	NA	CCGS	

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S&W	SOIL & WATER-4e	OPS	Water	For any planned disruptions in the primary recycled water supply that will exceed 7 days, the Project owner shall obtain CPM approval on a water supply disruption plan that outlines the reasons and duration for the planned disruption, and the volume of secondary water that will be utilized during the planned disruption.	Notification	As-needed	As-needed		As-Needed	NA	CCGS	
S&W	SOIL & WATER-4f	OPS	Following commencement of project operations and within eighteen (18) months of all of the following conditions being met, and assuming the CEC approves a project amendment allowing the project to use recycled water and dispose of the associated high TDS wastewater, the primary water supply for project operations including all process and landscape irrigation shall be exclusively recycled water provided by Ironhouse Sanitary District (ISD) or other entity that can provide recycled water with the same water quality as ISD as approved by the CPM.	Within six (6) months of all of the criteria outlined for converting to recycled water are met, the project owner shall submit an amendment pursuant to California Code of Regulations Title 20 Section 1769(a) proposing project use of recycled water.	Amendment	6 months after criteria are met	Ongoing		Not Started	NA	CCGS	
S&W	SOIL & WATER-4g	OPS	Use of recycled water shall be limited to 280 acre-feet per year (or as determined in review of the project amendment). After the project switches to the primary recycled water supply, the backup water supply for the project operation for process and landscape irrigation shall be freshwater provided by the potable connection with DWD. The use of freshwater from DWD for these purposes shall be limited to 25 acre-feet per year.	The project owner, in the annual compliance report, shall provide a Water Use Summary that states the source and quantity of potable and recycled water used on a monthly basis and on an annual basis in units of acre-feet. The project owner shall include in the annual compliance report information sufficient for the CPM to determine the status of the recycled water program being implemented by ISD and which criteria for use of recycled water have been met and what remains to be completed to satisfy the criteria for use of recycled water. Prior annual water use including yearly range and yearly average shall be reported in subsequent Annual Compliance Report (ACR).	ACR	Annually (Following conversion to Recycled Water)	Ongoing		Not Started	NA	CCGS	
S&W	SOIL & WATER-5a	CONS	Comply with the requirements of the General NPDES permit for discharges of storm water associated with industrial activity. Develop and implement a SWPPP for the operation of the site. Ensure that only stormwater is discharged onto the site.	At least 30 days prior to commercial operation, submit the OGS operational SWPPP to the CPM.	Operation SWPPP	At least 30 days prior to commercial operation	TBD		Not Started	NA	CH2	
S&W	SOIL & WATER-5b	CONS	Comply with the requirements of the General NPDES permit for discharges of storm water associated with industrial activity. Develop and implement a SWPPP for the operation of the site. Ensure that only stormwater is discharged.	Within 10 days of mailing or receipt of the operational SWPPP, submit to the CPM any correspondence, as specified by this condition, between the project owner and the RWQCB about the general NPDES permit for discharge of storm water associated with industrial activity.	Copies of Correspondence	Within 10 days of receipt or submittal	Ongoing		In-progress	NA	CH2	
S&W	SOIL & WATER-6a	PC	Upon project approval, the project owner shall develop and implement a Wetland E Monitoring and Adaptive Management Plan (Plan) (see BIO-19). in this condition.	At least 60 days prior to the start of any construction related ground disturbance, the project owner shall submit a copy of the Draft Wetland E Monitoring and Adaptive Management Plan to the CPM, California Department of Fish and Game (DFG) and the Central Valley RWQCB (CV RWQCB) for review and comment.	Draft Wetland E Monitoring and Adaptive Management Plan	At least 60 days prior to the start of any construction related ground disturbance			Complete	NA	CH2	
S&W	SOIL & WATER-6b	PC	Wetland Monitoring and Adaptive Management Plan for Mitigation Wetland E	The CPM in consultation with DFG and the CV RWQCB, will determine the plan's acceptability. At least 15 days prior to the start of any construction related ground disturbance, the project owner shall provide the CPM with the final version of the Wetland E Monitoring and Adaptive Management Plan	Mitigation Wetland E Monitoring and Adaptive Management Plan with comments	At least 15 days prior to the start of any construction related ground disturbance			Complete	NA	CH2	
S&W	SOIL & WATER-6c	CONS	Wetland Monitoring and Adaptive Management Plan for Mitigation Wetland E	The Wetland E Monitoring and Adaptive Management Plan shall be implemented prior to construction, including a minimum of one rainy season of pre-construction data collection.	Minimum of One-Season of Monitoring Data	Prior to construction	Ongoing		In-progress	NA	CH2	
S&W	SOIL & WATER-6d	CONS	Wetland Monitoring and Adaptive Management Plan for Mitigation Wetland E	During construction, the project owner shall provide monitoring data in the monthly compliance report on the effectiveness of the drainage, erosion and sediment control measures and the results of monitoring and maintenance activities.	MCR	Monthly	Ongoing		In-progress	NA	CH2	
S&W	SOIL & WATER-6e	OPS	Wetland Monitoring and Adaptive Management Plan for Mitigation Wetland E	Submit annual reports to the CPM, DFG, and the CV RWQCB detailing the results of water level monitoring and water quality sampling and analysis. The annual reports shall also document all maintenance activities implemented and compliance with all goals, objectives and performance standards in the Wetland E Monitoring and Adaptive Management Plan. The annual monitoring reports shall fully describe the status of the hydrology and water quality at Wetland E and any adaptive management measures implemented. Annual monitoring reports shall be submitted for review and approval annually within 30 days of the anniversary date of the commencement of habitat improvements for the life of the project.	ACR	Annually	Ongoing		Not Started	NA	CCGS	
S&W	SOIL & WATER-6f	OPS	Wetland Monitoring and Adaptive Management Plan for Mitigation Wetland E	The project owner shall submit copies to the CPM of all correspondence between the project owner and CDFG and/or the CV RWQCB regarding the Wetland E Monitoring and Adaptive Management.	Correspondence	As needed	As-needed		As-Needed	NA	CCGS	

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S&W	SOIL & WATER-6g	CONS	Wetland Monitoring and Adaptive Management Plan for Mitigation Wetland E	Water quality samples shall be collected from the discharge point to Wetland E during the rainy season. Discharge samples shall be collected following the first three rainfall events of 0.5 inch or greater for each year of construction and the first five years of operation. In addition, water quality sampling and analysis shall be required for the first three rainfall events of 0.5 inch or greater following a reported release of hazardous materials at the site. If sample analysis results exceed RWQCB Benchmark values or US EPA Ambient Water Quality Criteria for Protection of Freshwater Aquatic Life during the first five years of operation or following a release of hazardous materials, water quality sampling and analysis shall continue until three contiguous years of water quality analyses meet the RWQCB Benchmark values and US EPA Water Quality Criteria. Sample analyses shall include tests for pH, Dissolved Oxygen, Total Suspended Solids, Specific Conductance, Oil & Grease, and metals (Arsenic, Chromium, Iron, Selenium, Lead, Mercury, etc.). If analysis results exceed RWQCB Benchmark values or US EPA Water Quality Criteria, contingency plans should be implemented to improve or augment the stormwater quality treatment Best Management Practices on site.	Water Sampling	As needed after discharge points are installed	Ongoing		Not Started	NA	CCGS	
S&W	SOIL & WATER-6h	OPS	Wetland Monitoring and Adaptive Management Plan for Mitigation Wetland E	Same as SOIL&WATER-6g.	Water Sampling	As needed	As-needed		As-Needed	NA	CCGS	
S&W	SOIL & WATER-7a	CONS	Wastewater discharge should be limited to a maximum of 200-gpm and comply with the Ironhouse Sanitary District's Wastewater Discharge Requirements.	No later than 90 days prior to operation, the project owner shall submit to the Ironhouse Sanitary District a copy of the Wastewater Discharge Sampling and Analysis Plan for review and comment	Wastewater Discharge Sampling and Analysis Plan	No later than 90 days prior to operation	TBD		Not Started	NA	CCGS	
S&W	SOIL & WATER-7b	CONS	Wastewater Discharge Sampling and Analysis Plan	No later than 60 days prior to operation, the project owner shall submit the Wastewater Discharge Sampling and Analysis Plan with the Ironhouse Sanitary District's comments to the CPM for review and approval	Wastewater Discharge Sampling and Analysis Plan with comments	No later than 60 days prior to operation	TBD		Not Started	NA	CCGS	
S&W	SOIL & WATER-7c	OPS	Wastewater Discharge Sampling and Analysis Plan	The project owner shall provide information on the results of sample analysis results for wastewater discharge in the annual compliance report.	ACR	Annually	Ongoing		Not Started	NA	CCGS	
S&W	SOIL & WATER-7d	OPS	Wastewater Discharge Sampling and Analysis Plan	The project owner shall submit copies to the CPM of all correspondence between the project owner and Ironhouse Sanitation District DFG and/or the CV RWQCB regarding wastewater discharge	Correspondence	As needed	As-needed		As-Needed	NA	CCGS	
STRUC	STRUC-1a	CONS	Prior to the start of any increment of construction, submit plans, calculations and other supporting documentation, as described in this condition to the CBO for design review and acceptance for all project structures and equipment identified in the CBO-approved master drawing and master specifications list.	At least 60 days (or project owner- and CBO-approved alternative time frame) prior to the start of any increment of construction of any structure or component listed in the CBO-approved master drawing and master specifications list, submit to the CBO the above final design plans, specifications and calculations, with a copy of the transmittal letter to the CPM.	Final Design Plans, Specs & Calcs with Transmittal Letter	At least 60 days prior to the start of any increment of construction of listed component in the CBO-approved master drawing and specifications list	Ongoing	CBO approved on 6/3, 5, 9 and 16/11	In-progress	NA	EPC	
STRUC	STRUC-1b	CONS	Prior to the start of any increment of construction, submit plans, calculations and other supporting documentation, as described in this condition to the CBO for design review and acceptance for all project structures and equipment identified in the CBO-approved master drawing and master specifications list.	At least 60 days (or project owner- and CBO-approved alternative time frame) prior to the start of any increment of construction of any structure or component listed in the CBO-approved master drawing and master specifications list, submit to the CBO the above final design plans, specifications and calculations, with a copy of the transmittal letter to the CPM.	Final Design Plans, Specs & Calcs with Transmittal Letter	At least 60 days prior to the start of any increment of construction of listed component in the CBO-approved master drawing and specifications list	Ongoing		In-progress	NA	EPC	
STRUC	STRUC-1c	CONS	Construction Plans	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 comply with the requirements set forth in applicable engineering LORS.	MCR	Monthly	Ongoing		In-progress	NA	EPC	1-time: In the following MCR.
STRUC	STRUC-2a	CONS	Submit to the CBO the required number of sets of the documents listed in this condition related to work that has undergone CBO design review and approval: Concrete cylinder strength test reports; Concrete pour sign-off sheets; Bolt torque inspection reports; Field weld inspection reports; and Reports covering other structural activities requiring special inspections.		See condition text for document list	On a schedule suitable to the CBO	Ongoing		In-progress	NA	EPC	
STRUC	STRUC-2b	CONS	Structural	If a discrepancy is discovered in the data listed in this condition, 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. The NCR shall reference the condition(s) and the applicable CBC chapter and section.	(If Needed)	Within 5 days of discovering a discrepancy	As-needed		As-Needed	NA	EPC	
STRUC	STRUC-2c	CONS	Structural	Within five days of resolution of the NCR, submit a copy of the corrective action to the CBO and the CPM.	(If Needed)	Within five days of resolution of the NCR	As-needed		As-Needed	NA	EPC	

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STRUC	STRUC-2d	CONS	Structural	The project owner shall transmit a copy of the CBO's approval or disapproval of the corrective action to the CPM within 15 days. If 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.	(If Needed)	Within 15 days of receiving approval or disapproval	As-needed		As-Needed	NA	EPC	
STRUC	STRUC-3a	CONS	Submit to the CBO design changes to the final plans required by the 2010 CBC, including the revised drawings, specifications, calculations, and a complete description of, and supporting rationale for, the proposed changes, and shall give to the CBO prior notice of the intended filing.	On a schedule suitable to the CBO, notify the CBO of the intended filing of design changes, and 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.	(If Needed)	On a schedule suitable to the CBO	As-needed		As-Needed	NA	EPC	
STRUC	STRUC-3b	CONS	Structural	Notify the CPM, via the monthly compliance report, when the CBO has approved the revised plans.	MCR	Monthly	As-needed		As-Needed	NA	EPC	1-time: In the following MCR.
STRUC	STRUC-4a	CONS	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts specified in the 2010 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 time frame) prior to the start of installation of the tanks or vessels containing the specified quantities of toxic or hazardous materials, 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.	Final design plans, Specs & Calcs Engineer certification	At least 30 days prior to the start of installation of the tanks or vessels	TBD		Not Started	NA	EPC	
STRUC	STRUC-4b	CONS	Structural	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.	MCR	Monthly	Ongoing		In-progress	NA	EPC	1-time: In the following MCR.
TLSN	TLSN-1	CONS	Construct the proposed 230-kV transmission lines according to the requirements of California Public Utility Commission's GO-95, GO-52, GO-131-D, Title 8, and Group 2, High Voltage Electrical Safety Orders, sections 2700 through 2974 of the California Code of Regulations, and PG&E's EMF-reduction guidelines.	At least 30 days before starting the construction of the transmission line or related structures and facilities, submit to the CPM a letter signed by a California registered electrical engineer affirming that the lines will be constructed according to the requirements stated in this condition.	Confirmation Letter	At least 30 days before starting the upgrade of the transmission line or related structures and facilities	TBD		Not Started	NA	CCGS	
TLSN	TLSN-2a	OPS	Use a qualified individual to measure the strengths of the electric and magnetic fields from each line as outlined in this condition. These measurements shall be completed not later than six months after the start of operations.	These measurements shall be completed not later than six months after the start of operations.	--	Within 6 months after the start of operations	TBD		Not Started	NA	PG&E	
TLSN	TLSN-2b	OPS	Electric/magnetic measurements.	File copies of the post-energization measurements with the CPM within 60 days after completion of the measurements.	Post-energization Measurements	Within 60 days of the post-energization measurements	TBD		Not Started	NA	PG&E	
TLSN	TLSN-3	OPS	The rights-of-way of the proposed transmission lines shall be kept free of combustible material as required under the provisions of section 4292 of the Public Resources Code and section 1250 of Title 14 of the California Code of Regulations.	During the first 5 years of plant operation, provide a summary of inspection results and any fire prevention activities carried out along the right-of-way of the line and provide such summaries in the Annual Compliance Report.	ACR	Annually during the first five years of plant operation	Ongoing		Not Started	NA	CCGS	
TLSN	TLSN-4	CONS	Ensure that all permanent metallic objects within the rights-of-way of the project-related line is grounded according to industry standards.	At least 30 days before the line is energized, transmit to the CPM a letter confirming compliance with this condition.	Confirmation Letter	At least 30 days before the lines are energized	TBD		Not Started	NA	PG&E	
TLSN	TLSN-5	OPS	Identify and correct any complaints of interference with radio or television signals from operation of the project-related line and associated switchyards. Maintain written records for a period of five years, of all complaints of radio or television interference attributable to line operation together with the corrective action taken in response to each complaint. This record shall be submitted in an Annual Report to the Compliance Project Manager on transmission line safety and nuisance-related requirements.	All reports of line-related complaints shall be summarized for the project-related lines and included during the first five years of plant operation in the Annual Compliance Report.	ACR	Annually during the first five years of plant operation	Ongoing		Not Started	NA	CCGS	
TRANS	TRANS-1	PC	Consult with the city of Oakley and prepare and submit to the CPM for approval a Construction Traffic Control Plan and implementation program. The Construction Traffic Control Plan must be prepared in accordance with Caltrans Manual on Uniform Traffic Control Devices and the WATCH Manual and must comply with conditions.	At least 30 days prior to site mobilization, the project owner or contractor shall provide the Construction Traffic Control Plan to the CPM for review and approval.	Construction Traffic Control Plan	At least 30 days prior to site mobilization			Complete	NA	CH2	
TRANS	TRANS-2a	CONS	All temporary construction equipment over 200-feet in height shall have lighting and marking consistent with FAA Advisory circular 70/7460-1 K, Obstruction Marking and Lighting, 34 (Markers) for temporary construction equipment so not to create a hazard to air navigation.	Submit FAA Form 7460-2, Notice of Actual Construction or Alteration, to the FAA at least 10 days prior to start of construction.	FAA Form 7460-2, Notice of Actual Construction or Alteration	At least 10 days prior to start of construction	TBD		Not Started	NA	EPC	Request change to 10 days prior to use of equipment over 200 feet instead of 10 days prior to start of construction.
TRANS	TRANS-2b	CONS	All temporary construction equipment over 200-feet in height shall have lighting and marking consistent with FAA Advisory circular 70/7460-1 K, Obstruction Marking and Lighting, 34 (Markers) for temporary construction equipment so not to create a hazard to air navigation.	Submit FAA Form 7460-2, Notice of Actual Construction or Alteration within 5 days after the construction reaches its greatest height (7460-2, Part II).	FAA Form 7460-2, Notice of Actual Construction or Alteration	Within 5 days after the construction reaches its greatest height	TBD		Not Started	NA	EPC	
TRANS	TRANS-3a	PC	Prior to the start of construction, submit a copy of the images for the roadway segments to the CPM, city of Oakley, Contra Costa County, and/or Caltrans. Also prior to start of construction, the project owner shall notify the city, Contra Costa County, and/or Caltrans about the schedule for project construction.	Prior to the start of site mobilization, photograph or videotape all affected public roads, easements, right-of-way segment(s), and/or intersections and provide the CPM, the affected local jurisdiction(s), and Caltrans with a copy of these images.	Photo/Video of pre-project road conditions	Prior to the start of construction			Complete	NA	EPC	

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TRANS	TRANS-3b	PC	Prior to start of construction, the project owner shall notify the city, Contra Costa County, and/or Caltrans about the schedule for project construction.	Purpose of this notification is to postpone any planned roadway resurfacing and/or improvement projects until after the project construction has taken place and to coordinate construction-related activities associated with other projects.	Notification Letter	Prior to the start of construction			Complete	NA	CCGS	
TRANS	TRANS-3c	CONS	Following completion of project construction, the project owner shall repair any damage to roadways affected by construction activity along with the primary roadways identified in the traffic control plan for construction traffic to the road's pre-project construction condition	Within 30 days after completion of the project, the project owner shall meet with the CPM and city of Oakley to determine and receive approval for the actions necessary and schedule to complete the repair of identified sections of public roadways to original or as near-original condition as possible.	Meeting	Within 30 days after completion of the project	TBD		Not Started	NA	CCGS	
TRANS	TRANS-3d	CONS	Repair damage to roadways.	Following completion of any regional road improvements, the project owner shall provide to the CPM a letter from Contra Costa County, Caltrans, or other relevant jurisdiction if work occurred within its jurisdictional public ROW stating its satisfaction with the road improvements	Letter from Contra Costa County, Caltrans	Following completion of any regional road improvements	TBD		Not Started	NA	CCGS	
TRANS	TRANS-4a	CONS	Comply with Caltrans, Contra Costa County, city of Oakley, and other relevant jurisdictions limitations on vehicle sizes, weights, roadway encroachment, and travel routes and obtain any permits required for these actions	In the Monthly Compliance Reports, the project owner shall indicate that all required permits were obtained and list the jurisdictions they were acquired from, or indicate if no permits were necessary, during that reporting period.	MCR	Monthly	Ongoing		In-progress	NA	EPC	
TRANS	TRANS-4b	OPS	Comply with Caltrans, Contra Costa County, city of Oakley, and other relevant jurisdictions limitations on vehicle sizes, weights, roadway encroachment, and travel routes and obtain any permits required for these actions	The project owner shall retain copies of all acquired permits and supporting documentation in its compliance file for at least six months after the start of commercial operation	Project Archive	As-needed	Ongoing		Not Started	NA	CCGS	
TRANS	TRANS-5	PC	Payment of Transportation Fees: Where applicable, pay Traffic Impact Fee and the Regional Transportation Development Impact Mitigation Fee to City of Oakley.	At least 30 days prior to the start of project construction, the project owner shall provide to the CPM proof of payment of the Traffic Impact Fee and the Regional Transportation Development Impact Mitigation Fee or any future alternative regional fee adopted by the City	Proof of payment	At least 30 days prior to the start of project construction			Complete	NA	CCGS	
TSE	TSE-1a	CONS	Furnish to the CPM and to the CBO a schedule of transmission facility design submittals, as described in this condition, a Master Drawing List, a Master Specifications List, and a Major Equipment and Structure List. Provide designated packages to the CPM when requested.	Prior to the start of construction, submit the schedule, a Master Drawing List, and a Master Specifications List to the CBO and to the CPM. The schedule shall contain the elements listed in this condition. Additions and deletions shall be made to the table only with CPM and CBO approval.	Schedule, Master Drawing and Specifications Lists	Prior to the start of construction	TBD		Not Started	NA	EPC/PG&E	
TSE	TSE-1b	CONS	Transmission Facility Design	Provide schedule updates in the monthly compliance report.	(If Needed)	Monthly	As-needed		As-Needed	NA	EPC/PG&E	
TSE	TSE-2a	CONS	Prior to the start of construction assign an electrical engineer and at least one of each of the engineers listed in this condition to the project. No segment of the project shall have more than one responsible engineer. The electrical engineer shall preform duties (1) and (2) listed in this condition. This engineer shall be authorized to halt earthwork and to require changes if site conditions are unsafe or do not conform with predicted conditions used as a basis for design of earthwork or foundations.	Prior to the start of rough grading, submit to the CBO for review and approval, the names, qualifications and registration numbers of all the responsible engineers assigned to the project. Notify the CPM of the CBO's approvals of the engineers within five days of the approval.	Name/Quals of Responsible Engineers	Prior to the start of rough grading	TBD		Not Started	NA	CCGS	
TSE	TSE-2b	CONS	If any one of the designated engineers is subsequently reassigned or replaced, the project owner shall submit the name, qualifications and registration number of the newly assigned engineer to the CBO for review and approval.	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. Notify the CPM of the CBO's approvals of the engineers within five days of the approval.	(If Needed)	Within 5 days of replacing the engineer	As-needed		As-Needed	NA	PG&E	
TSE	TSE-3	CONS	If any discrepancy in design and/or construction is discovered in any engineering work that has undergone CBO design review and approval, document the discrepancy and recommend corrective action. The discrepancy documentation shall become a controlled document and shall be submitted to the CBO for review and approval and shall reference this condition.	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. If the corrective action is disapproved, advise the CPM, within five days, the reason for disapproval, and the revised corrective action required to obtain the CBO's approval.	(If Needed)	Within 15 days of receiving the discrepancy	As-needed		As-Needed	NA	PG&E-Gen-tie EPC-Substation	
TSE	TSE-4a	CONS	For the power plant switchyard, outlet line and termination, do not begin any construction until plans for that increment of construction have been approved by the CBO. These plans, together with design changes and design change notices, shall remain on the site for one year after completion of construction. Request that the CBO inspect the installation. Activities (A) through (C) of this condition shall be reported in the MCR.	Prior to the start of each increment of construction, 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 verifying compliance with the applicable LORS.	Final design, specs, & calcs / RE Statement	Multi-time: Prior to the start of each increment of construction	Ongoing		In-progress	NA	EPC/PG&E	
TSE	TSE-4b	CONS	Activities (A) through (C) of this condition shall be reported in the MCR.	Send the CPM a copy of the transmittal letter described in this condition in the next Monthly Compliance Report.	MCR	Monthly	Ongoing		In-progress	NA	EPC/PG&E	
TSE	TSE-5a	CONS	The design, construction, and operation of the proposed transmission facilities will conform to all applicable LORS, and requirements (a) through (f) listed in this condition.	Prior to the start of construction of transmission facilities, submit to the CBO for approval the elements (a) through (f) listed in this condition.	See condition text for document list	Prior to the start of construction of transmission facilities	TBD		Not Started	NA	CCGS	
TSE	TSE-5b	CONS	Once approved, the project owner shall inform the CPM and CBO of any anticipated changes to the design, and shall submit a detailed description of the proposed change and complete engineering, environmental, and economic rationale for the change to the CPM and CBO for review and approval.	Prior to the construction of or start of modification of transmission facilities, inform the CBO and the CPM of any anticipated changes to the design that are different from the design previously submitted and approved and submit a detailed description of the proposed change and complete engineering, environmental, and economic rationale for the change to the CPM and CBO for review and approval.	(If Needed)	Prior to the construction of or start of modification of transmission facilities	As-needed		As-Needed	NA	CCGS	

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TSE	TSE-6a	COMM	Provide the Notice to the California Independent System Operator (California ISO), as described in this condition, prior to synchronizing the facility with the California Transmission system. At least one week prior to synchronizing the facility with the grid for testing, provide the California ISO a letter stating the proposed date of synchronization.	Provide copies of the California ISO letter to the CPM when it is sent to the California ISO one week prior to initial synchronization with the grid.	Cal ISO Letter	At least 1 week prior to initial synchronization with the grid	TBD		Not Started	NA	CCGS	
TSE	TSE-6b	COMM	At least one business day prior to synchronizing the facility with the grid for testing, provide telephone notification to the California ISO Outage Coordination Department.	Contact the California 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. A report of conversation with the California ISO shall be provided electronically to the CPM one day before synchronizing the facility with the California transmission system for the first time.	Report of Conversation with Cal ISO	At least 1 business day prior to synchronizing the facility with the grid for testing	TBD		Not Started	NA	CCGS	
TSE	TSE-7a	CONS	The transmission facilities shall be inspected during and after project construction, and any subsequent CPM and CBO approved changes thereto.	Within 60 days after first synchronization of the project, transmit to the CPM and CBO items (A) through (C) of this condition.	As built Engineering descriptions / drawings / Summary of inspections	Within 60 days after first synchronization of the project	TBD		Not Started	NA	PG&E	
TSE	TSE-7b	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.	In case of non-conformance, inform the CPM and CBO in writing, within 10 days of discovering such non-conformance and describe the corrective actions to be taken.	(If Needed)	Within 10 days of discovering non-conformance	As-needed		As-Needed	NA	CCGS	
VIS	VIS-1a	CONS	Surface Treatment of Project Structures and Buildings: Color and finish the surfaces of all project structures and buildings visible to the public. Transmission line conductors and insulators shall be non-specular and non-reflective. A surface treatment plan shall be submitted to the CPM for approval that includes measures (A) through (E) of this condition.	At least 90 days prior to applying vendor color(s) and finish(es) for structures or buildings to be surface treated during manufacture, submit the proposed treatment plan to the CPM.	Proposed Surface Treatment Plan	At least 90 days prior to applying vendor color(s) and finish(es) for structures or buildings			In-progress	NA	EPC	Plan submitted to the CEC on 3/24/11. This pre-construction item is still pending. Example color plates have been requested by the CPM once they are available.
VIS	VIS-1b	CONS	Surface Treatment of Project Structures and Buildings: The applicant shall not request vendor surface treatment of any buildings or structures during their manufacture, or perform final field treatment on any buildings or structures, until the applicant has received treatment plan approval by the CPM.	If the CPM determines that the plan requires revision, provide to the CPM a plan with the specified revision(s) for review and approval by the CPM before any treatment is applied. Any modifications to the treatment plan must be submitted to the CPM for approval.	(If Needed)	Before any treatment is applied	As-needed		As-Needed	NA	EPC	
VIS	VIS-1c	CONS	Surface Treatment of Project Structures and Buildings: The applicant shall notify the CPM that surface treatment of all listed structures and buildings has been completed and is ready for inspection; and shall submit one set of electronic color photographs from KOPs 1 and 3 showing the "as built" surface treated structures and buildings.	Prior to the start of commercial operation, notify the CPM that surface treatment of all listed structures and buildings has been completed and is ready for inspection; and submit one set of electronic color photographs from KOPs 1 and 3 showing the "as built" surface treated structures and buildings.	Notification of surface treatment completion and photographs from KOPs 1 & 3	Prior to the start of operations	TBD		Not Started	NA	EPC	
VIS	VIS-1d	OPS	Surface Treatment of Project Structures and Buildings: The surface treatment plan shall include a procedure to ensure proper treatment maintenance for the life of the project.	Provide a status report regarding surface treatment maintenance in the Annual Compliance Report. The report shall specify a): the condition of the surfaces of all structures and buildings at the end of the reporting year; b) major maintenance activities that occurred during the reporting year; and c) the schedule of major maintenance activities for the next year.	ACR	Annually	Ongoing		Not Started	NA	CCGS	
VIS	VIS-2a	CONS	Submit to the CPM for review and approval and simultaneously to the City of Oakley and the local water purveyor for review and comment a Landscape Documentation Package which includes measures (a) through (d) of this condition.	The landscaping plan shall be submitted to the CPM for review and approval and simultaneously to the City of Oakley for review and comment at least 90 days prior to installation.	Landscaping Plan	At least 90 days prior to installation	TBD		Not Started	NA	EPC	
VIS	VIS-2b	CONS	Create landscape screening of sufficient density and height to screen the power plant structures to the greatest feasible extent within the shortest feasible time.	Planting must occur during the first optimal planting season following site mobilization.	Planting	First optimal planting season following site mobilization	TBD		Not Started	NA	EPC	
VIS	VIS-2c	OPS	Provide timely replacement for aging or diseased tree specimens on site in order to avoid future loss of existing visual screening.	The project owner shall simultaneously notify the CPM and the City of Oakley within seven days after completing installation of the landscape plan, that the site is ready for inspection.	Landscape Installation Verification Report	Within seven days after completing installation	TBD		Not Started	NA	CCGS	
VIS	VIS-2d	OPS	Landscaping plan.	The project owner shall report landscape maintenance activities, including replacement of dead or dying vegetation, for the previous year of operation in each Annual Compliance Report.	ACR	Annually	Ongoing		Not Started	NA	CCGS	
VIS	VIS-3a	CONS	Construction Activity Lighting: To the extent feasible given safety and security concerns, lighting on the construction site and the construction laydown area shall minimize potential night lighting impacts, as outlined in (A) through (D) of this condition.	At least 90 days prior to ordering any permanent exterior lighting, the project owner shall contact the CPM to discuss the documentation required in the lighting mitigation plan.	Notification to CPM	At least 90 days prior to ordering	TBD		Not Started	NA	EPC	
VIS	VIS-3b	CONS	Construction Activity Lighting.	Within 7 days after the first use of construction lighting, notify the CPM that the lighting is ready for inspection.	Notification to CPM	Within 7 days after the first use of construction lighting			Complete	NA	EPC	CEC notified via email on 8/31/11.
VIS	VIS-3c	CONS	Construction Activity Lighting.	If the CPM notifies the applicant that modifications to the lighting are needed to minimize impacts, within 15 days of receiving that notification implement the necessary modifications and notify the CPM that the modifications have been completed.	(If Needed)	Within 15 days of receiving notification	As-needed		As-Needed	NA	EPC	
VIS	VIS-3d	CONS	Construction Activity Lighting: If the applicant receives a complaint about construction lighting, the applicant shall notify the CPM and shall use the complaint resolution form included in the General Conditions section of the Compliance Plan to record each lighting complaint and to document the resolution of that complaint. The applicant shall provide a copy of each complaint form to the CPM.	Within 48 hours of receiving a lighting complaint, provide to the CPM; a) a report of the complaint, b) a proposal to resolve the complaint, and c) a schedule for implementation of the proposal.	(If Needed)	Within 48 hours of receiving a lighting complaint	As-needed		As-Needed	NA	CCGS	

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VIS	VIS-3e	CONS	Construction Activity Lighting.	Notify the CPM within 48 hours after completing implementation of the proposal to resolve the lighting complaint.	(If Needed)	Within 48 hours of implementing the proposal to resolve a lighting complaint	As-needed		As-Needed	NA	CCGS	
VIS	VIS-3f	CONS	Construction Activity Lighting.	A copy of the complaint resolution form report shall be submitted to the CPM within 30 days of complaint resolution.	(If Needed)	Within 30 days of complaint resolution	As-needed		As-Needed	NA	CCGS	
VIS	VIS-3g	CONS	Permanent Exterior Lighting: To the extent feasible, consistent with safety and security considerations and commercial availability, design and install all permanent exterior lighting as described in measures (a) through (f) of this condition. Provide to the CPM a lighting management plan that includes at a minimum the elements described in this condition.	At least 90 days prior to ordering any permanent exterior lighting, the project owner shall contact the CPM to discuss the documentation required in the lighting mitigation plan.	Meeting with CPM	At least 90 days prior to ordering any permanent exterior lighting	TBD		Not Started	NA	CCGS	
VIS	VIS-3h	CONS	Permanent Exterior Lighting.	At least 60 days prior to ordering any permanent exterior lighting, the project owner shall submit to the CPM for review and approval and simultaneously to the City of Oakley for review and comment a lighting mitigation plan. The project owner shall not order any exterior lighting until receiving CPM approval of the lighting mitigation plan.	Lighting Mitigation Plan	At least 60 days prior to ordering any permanent exterior lighting	TBD		Not Started	NA	EPC	
VIS	VIS-3i	CONS	Permanent Exterior Lighting.	Prior to commercial operation, the project owner shall notify the CPM that the lighting has been completed and is ready for inspection. If after inspection the CPM notifies the project owner that modifications to the lighting are needed, within 30 days of receiving that notification the project owner shall implement the modifications and notify the CPM that the modifications have been completed and are ready for inspection	(If Needed)	Within 30 days of receiving CPM's notification	As-needed		As-Needed	NA	EPC	
VIS	VIS-3j	CONS	Permanent Exterior Lighting.	Prior to commercial operation, notify the CPM that the lighting has been installed and is ready for inspection.	Notification to CPM	Prior to commercial operation	TBD		Not Started	NA	EPC	
VIS	VIS-3k	CONS	Permanent Exterior Lighting.	If after inspection the CPM notifies the applicant that modifications to the lighting are needed, within 30 days of receiving notification implement the modifications and notify the CPM that the modifications have been completed and are ready for inspection.	(If Needed)	Within 30 days of receiving notification	As-needed		As-Needed	NA	EPC	
VIS	VIS-3l	OPS	Permanent Exterior Lighting.	Notify the CPM within 10 days after completing implementation of the proposal.	(If Needed)	Within 10 days of implementing a proposal to resolve a lighting complaint	As-needed		As-Needed	NA	CCGS	
VIS	VIS-3m	OPS	Permanent Exterior Lighting: If the applicant receives a complaint about project lighting, the applicant shall notify the CPM and shall use the complaint resolution form included in the General Conditions section of the Compliance Plan to record each lighting complaint and to document the resolution of that complaint. The applicant shall provide a copy of each complaint form to the CPM.	Within 48 hours of receiving a lighting complaint, provide to the CPM; a) a report of the complaint, b) a proposal to resolve the complaint, and c) a schedule for implementation of the proposal.	(If Needed)	Within 48 hours of receiving a lighting complaint	As-needed		As-Needed	NA	CCGS	
VIS	VIS-3n	OPS	Permanent Exterior Lighting.	Notify the CPM within 48 hours after completing implementation of the proposal to resolve the lighting complaint.	(If Needed)	Within 48 hours of implementing the proposal to resolve a lighting complaint	As-needed		As-Needed	NA	CCGS	
VIS	VIS-3o	OPS	Permanent Exterior Lighting.	A copy of the complaint resolution form report shall be submitted to the CPM within 30 days of complaint resolution.	(If Needed)	Within 30 days of complaint resolution	As-needed		As-Needed	NA	CCGS	
WASTE	WASTE-1	CONS	Dispose of existing waste along the transmission line route within parcels where PG&E has the legal right to remove waste (including aboveground tanks, empty drums, and other equipment and materials) prior to initiation of construction of the transmission line for OGS. PG&E will ensure proper handling of waste from areas disturbed during the construction of the transmission line.	At least 60 days prior to the start of site mobilization to construct the transmission line, the project owner shall provide to the CPM a list of the types and amount of existing waste to be disposed of from the OGS transmission route.	Disposed wastes list, and the solid sampling and analysis report	At least 60 days prior to the start of site mobilization	TBD		Not Started	NA	CCGS	Item tied to the T-line schedule.
WASTE	WASTE-2	PC	Submit a Soils Management Plan (SMP) to the CPM for approval.	At least 60 days prior to any earthwork, including those earthwork activities associated with the site mobilization, ground disturbance, or grading as defined in the general conditions of certification the project owner shall submit the Soils Management Plan to the CPM for approval.	Soils Management Plan	At least 60 days prior to any earthwork			Complete	NA	CCGS	
WASTE	WASTE-3	PC	Provide the resume of an experienced and qualified Professional Engineer or Professional Geologist, who shall be available for consultation during site characterization (if needed), excavation and grading activities, to the CPM for review and approval. The resume shall show experience in remedial investigation and feasibility studies. The Professional Engineer or Professional Geologist shall be given full authority by the project owner to oversee any earth moving activities that have the potential to disturb contaminated soil.	At least 30 days prior to the start of site mobilization, submit the resume of the Professional Engineer or Professional Geologist to the CPM for review and approval.	Professional Engineer / Geologist Resume	At least 30 days prior to the start of site mobilization			Complete	NA	CH2	

Technical Area	Cond. No.	Phase	Description	Verification/Action	Submittal	Submittal Date Required	Expected or Actual Submittal Date	Date of CBO/CPM Approval	Status	Amendment Date	Responsibility	Notes
WASTE	WASTE-4a	CONS	If potentially contaminated soil is identified, the Professional Engineer or Geologist shall inspect the site, determine the need for sampling, and provide a written report to the project owner, representatives of Department of Toxic Substances Control, and the CPM stating the recommended course of action.	Submit any final reports filed by the Professional Engineer or Professional Geologist to the CPM within 5 days of their receipt.	(If Needed)	Within 5 days of receiving any reports filed by the Professional Engineer or Geologist	As-needed		As-Needed	NA	CH2	
WASTE	WASTE-4b	CONS	The Professional Engineer or Geologist shall have the authority to temporarily suspend construction activity at that location for the protection of workers or the public. If, in the opinion of the Professional Engineer or Professional Geologist, significant remediation may be required, the project owner shall contact the CPM and representatives of the Department of Toxic Substances Control for guidance and possible oversight.	Notify the CPM within 24 hours of any orders issued to halt construction.	(If Needed)	Within 24 hours of any orders issued to halt construction	As-needed		As-Needed	NA	CH2	
WASTE	WASTE-5	PC	Prepare a Construction Waste Management Plan for all wastes generated during construction of the facility, and submit the plan to the CPM for review and approval. The plan shall contain, at a minimum, the elements listed in this condition.	Submit the Construction Waste Management Plan to the CPM for approval no less than 30 days prior to the initiation of construction activities at the site.	Construction Waste Management Plan	At least 30 days prior to start of construction			Complete	NA	CH2	
WASTE	WASTE-6a	PC	Submit a Construction and Demolition Debris Recycling Plan (CDDR Plan) to the city of Oakley. Project mobilization and construction shall not proceed until the City issues an approval document and the CPM provides written concurrence.	At least 60 days prior to the start of any construction activities, the project owner shall submit the proposed CDDR Plan, along with any comments received from the city of Oakley, to the CPM for review and approval.	CDDR Plan and comments	At least 60 days prior to the start of any construction activities		City of Oakley approved on 8/4/11	Complete	NA	CH2	Debris Recovery Plan: Pre-Construction form submitted to the City of Oakley on 8/4/11.
WASTE	WASTE-6b	PC	CDDR Plan Fees.	Prior to the start of any construction activities, submit required deposit and administrative fees.	Payment / Proof of payment	Prior to the start of any construction activities			Complete	NA	CCGS	
WASTE	WASTE-6c	OPS	Submit compliance documentation to the City of Oakley and the CPM.	Not later than 60 days after completion of project construction, the project owner shall submit documentation of compliance with the diversion program requirements to the CPM and city. The required documentation shall include a Recycling and Reuse Summary Report, along with all necessary receipts and records of measurement from entities receiving project wastes.	Recycling and Reuse Summary Report and receipts/records from entities receiving project wastes	Not later than 60 days after completion of project construction	TBD		Not Started	NA	CCGS	
WASTE	WASTE-6d	PC	Submit a CDDR Plan to the city of Antioch . Project mobilization and construction shall not proceed until the City issues an approval document and the CPM provides written concurrence.	At least 60 days prior to the start of any transmission line construction activities, submit the proposed Waste Management Plan, along with any comments received from the city of Antioch, to the CPM for review and approval. Project mobilization and construction shall not proceed until the city of Antioch issues an approval document, consistent with the city's normal building permit approval, and the CPM provides written concurrence.	CDDR Plan and comments	At least 60 days prior to start of T-line construction activities			Complete	NA	CH2	The City of Antioch has requested that all waste from the T-line be managed through the City of Oakley recycling plan.
WASTE	WASTE-6e	PC	CDDR Plan Fees.	Prior to the start of any transmission line construction activities within the city of Antioch limits, submit to the city of Antioch, documentation consistent with the requirements of the city's CDDR Program, along with the normally required deposit and administrative fees.	Payment / Proof of payment	Prior to the start of any T-line construction activities			Complete	NA	CCGS	The City of Antioch has requested that all waste from the T-line be managed through the City of Oakley recycling plan.
WASTE	WASTE-6f	OPS	Submit compliance documentation to the City of Antioch and the CPM.	Not later than 60 days after completion of project construction, submit documentation of compliance with the diversion program requirements to the CPM and city. The required documentation shall include a Waste Management Plan completed in accordance with the city's requirements.	Recycling and Reuse Summary Report and receipts/records from entities receiving project wastes	Not later than 60 days after completion of project construction	TBD		Not Started	NA	CCGS	See City of Oakley requirement (WASTE-6c).
WASTE	WASTE-7	CONS	Obtain a hazardous waste generator identification number from the USEPA prior to generating any hazardous waste during construction. Obtain a hazardous waste generator identification number prior to generating any hazardous waste during operations.	Keep a copy of the identification number on file at the project site and provide the number to the CPM in the next Monthly Compliance Report.	MCR	Monthly			Complete	NA	CCGS	CAL EPA Haz Waste Generator No. CAL000363217 issued on 4/21/11. US EPA Haz Waste Generator ID No. CAR000219410 issued on 6/14/11.
WASTE	WASTE-8	CONS	Upon becoming aware of any impending waste management-related enforcement action, notify the CPM of any such action taken or proposed to be taken against the project itself, or against any waste hauler or disposal facility or treatment operator with which the owner contracts.	Notify the CPM in writing within 10 days of becoming aware of an impending enforcement action. The CPM shall notify the project owner of any changes that will be required in the way project-related wastes are managed.	(If Needed)	Within 10 days of becoming aware of an impending enforcement action	As-needed		As-Needed	NA	CCGS	
WASTE	WASTE-9a	CONS	Prepare an Operation Waste Management Plan for all wastes generated during operation of the facility, and shall submit the plan to the CPM for review and approval. The plan shall contain, at a minimum, the elements listed in this condition.	Submit the Operation Waste Management Plan to the CPM for approval no less than 30 days prior to the start of project operation. Submit any required revisions to the CPM within 20 days of notification from the CPM that revisions are necessary.	Operation Waste Management Plan	At least 30 days prior to the start of operation	TBD		Not Started	NA	CCGS	
WASTE	WASTE-9b	CONS	Prepare an Operation Waste Management Plan for all wastes generated during operation of the facility, and shall submit the plan to the CPM for review and approval. The plan shall contain, at a minimum, the elements listed in this condition.	Submit any required revisions to the CPM within 20 days of notification from the CPM that revisions are necessary.	(If Needed)	Within 20 days of Notification	As-needed		As-Needed	NA	CCGS	
WASTE	WASTE-9c	OPS	Operation Waste Management Plan.	Document in each Annual Compliance Report the actual volume of wastes generated and the waste management methods used during the year; provide a comparison of the actual waste generation and management methods used to those proposed in the original Operation Waste Management Plan; and update the Operation Waste Management Plan as necessary to address current waste generation and management practices.	ACR	Annually	Ongoing		Not Started	NA	CCGS	

Technical Area	Cond. No.	Phase	Description	Verification/Action	Submittal	Submittal Date Required	Expected or Actual Submittal Date	Date of CBO/CPM Approval	Status	Amendment Date	Responsibility	Notes
WASTE	WASTE-10	CONS	All spills or releases of hazardous substances, materials, or waste shall be reported, cleaned-up, and remediated as necessary, in accordance with all applicable federal, state, and local requirements.	Document, as described in this condition all unauthorized releases and spills of hazardous substances, materials, or wastes that occur on the project property or related pipeline and transmission corridors. Copies of the unauthorized spill documentation shall be provided to the CPM within 30 days of the date the release was discovered.	(If Needed)	Within 30 days of the date the release was discovered	As-needed		As-Needed	NA	EPC	
WORKER SAFETY	WORKER SAFETY-1	PC	Submit to the CPM the Project Construction Safety and Health Program containing the elements listed in this condition. The Personal Protective Equipment Program, the Exposure Monitoring Program, and the Injury and Illness Prevention Program shall be submitted to the CPM for review and approval. The Construction Emergency Action Plan and the Fire Prevention Plan shall be submitted to the East Contra Costa Fire Protection District for review and comment prior to submittal to the CPM for approval.	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 Project Construction Safety and Health Program. Provide a copy of a letter to the CPM of any comments received from the East Contra Costa Fire Protection District on the Construction Fire Prevention Plan and Emergency Action Plan.	Construction Health & Safety Program w/Fire Department Comments on EAP/FPP	At least 30 days prior to start of construction			Complete	NA	EPC	
WORKER SAFETY	WORKER SAFETY-2	CONS	Submit to the CPM the Project Operations and Maintenance Safety and Health Program containing the elements listed in this condition. The Operation Injury and Illness Prevention Plan, Emergency Action Plan, and Personal Protective Equipment Program shall be submitted to the CPM for review and comment concerning compliance of the programs with all applicable safety orders. The Fire Prevention Plan and the Emergency Action Plan shall also be submitted to the East Contra Costa Fire Protection District for review and comment.	At least 30 days prior to the start of first-fire or commissioning, submit to the CPM for approval a copy of the Project Operations and Maintenance Safety and Health Program. Provide a copy of a letter to the CPM of any comments received from the East Contra Costa Fire Protection District on the Operations Fire Prevention Plan and Emergency Action Plan.	Operation Health & Safety Program w/Fire Department Comments on EAP/FPP	At least 30 days prior to the start of first-fire or commissioning	TBD		Not Started	NA	CCGS	
WORKER SAFETY	WORKER SAFETY-3a	PC	Provide a site Construction Safety Supervisor (CSS) who is qualified as specified in this condition. The CSS shall perform the duties listed in this condition.	At least 30 days prior to the start of construction, submit to the CPM the name and contact information for the CSS.	CSS Name/Contact	At least 30 calendar days prior to start of construction			Complete	NA	EPC	On 11/1/11, James Peacock, CCGS Site Project Manager, was designated CSS.
WORKER SAFETY	WORKER SAFETY-3b	CONS	CSS	The CSS shall submit in the Monthly Compliance Report (MCR) a monthly safety inspection report to include the elements listed in this condition.	MCR	Monthly	Ongoing		In-progress	NA	EPC	
WORKER SAFETY	WORKER SAFETY-3c	CONS	CSS	The contact information of any replacement CSS shall be submitted to the CPM within one business day.	If needed	within one business day of replacement	As-needed		As-Needed	NA	EPC	
WORKER SAFETY	WORKER SAFETY-4	PC	Make payments to the Chief Building Official (CBO) for the services of a Safety Monitor. Those services shall be in addition to other work performed by the CBO. The Safety Monitor shall be responsible for the duties listed in condition WORKER SAFETY-3.	Prior to the start of construction, provide proof of agreement to fund the Safety Monitor services to the CPM for review and approval.	Proof of Agreement w/CBO for Safety Monitor	Prior to construction			Complete	NA	CCGS	
WORKER SAFETY	WORKER SAFETY-5	PC	A portable automatic external defibrillator (AED) shall be located on site during demolition, construction, and operations and a training program shall be implemented, as described in this condition. The training program shall be submitted to the CPM for review and approval.	At least 30 days prior to the start of construction, submit to the CPM proof that a portable AED exists on site and a copy of the training and maintenance program for review and approval.	Proof of AED and Training Program	At least 30 calendar days prior to start of construction			Complete	NA	EPC	
COMPLIANCE	COMPLIANCE-1	CONS	Unrestricted Access.	The project owner shall grant Energy Commission staff and delegate agencies or consultants unrestricted access to the power plant site.	Access	As-Requested	As-Requested		In-progress	NA	CCGS	
COMPLIANCE	COMPLIANCE-2	CONS	Compliance Record.	The project owner shall maintain project files on-site. Energy Commission staff and delegate agencies shall be given unrestricted access to the files.	Access	As-Requested	As-Requested		In-progress	NA	CCGS	
COMPLIANCE	COMPLIANCE-3	CONS	Compliance Verification Submittals.	The project owner is responsible for the delivery and content of all verification submittals to the CPM, whether such condition was satisfied by work performed or the project owner or his agent.	Verification Submittals	Monthly/Annually/As Received	Ongoing		In-progress	NA	CCGS	
COMPLIANCE	COMPLIANCE-4	PC	Pre-construction Matrix and Tasks Prior to Start of Construction.	Construction shall not commence until the all of the following activities/submittals have been completed: property owners living within one mile of the project have been notified of a telephone number to contact for questions, complaints or concerns; a pre-construction matrix has been submitted identifying only those conditions that must be fulfilled before the start of construction; all pre-construction conditions have been complied with; the CPM has issued a letter to the project owner authorizing construction.	Pre-construction Matrix	Prior to commencement of construction		CEC notice of Start of Construction issued on 7/26/11	Complete	NA	CCGS	OGS Project site Hotline established. Compliance matrix in-place.
COMPLIANCE	COMPLIANCE-5	CONS	Compliance Matrix.	The project owner shall submit a compliance matrix (in a spreadsheet format) with each monthly and annual compliance report which includes the status of all compliance conditions of certification.	Compliance Matrix	Monthly	Ongoing		In-progress	NA	CCGS	
COMPLIANCE	COMPLIANCE-6	CONS	Monthly Compliance Report including a Key Events List.	During construction, the project owner shall submit a MCR which includes specific information. The first MCR is due the month following the Energy Commission business meeting date on which the project was approved and shall include an initial list of dates for each of the events identified on the Key Events List.	MCR	Monthly	Ongoing		In-progress	NA	CCGS	
COMPLIANCE	COMPLIANCE-7	OPS	Annual Compliance Reports.	After construction ends and throughout the life of the project, the project owner shall submit an Annual Compliance Report (ACR) instead of a MCR.	ACR	Annual following completion of construction	Ongoing		Not Started	NA	CCGS	
COMPLIANCE	COMPLIANCE-8	CONS	Confidential Information.	Any information the project owner deems confidential shall be submitted to the Energy Commission's Executive Director with a request for confidentiality.	Confidential Filings	As-Needed	As-needed		As-Needed	NA	CCGS	

Technical Area	Cond. No.	Phase	Description	Verification/Action	Submittal	Submittal Date Required	Expected or Actual Submittal Date	Date of CBO/CPM Approval	Status	Amendment Date	Responsibility	Notes
COMPLIANCE	COMPLIANCE-9a	PC	Annual fees.	Payment of Annual Energy Facility Compliance Fee.	Initial Annual Compliance Fee	Initial payment due on date of Business Meeting when CEC accepts final decision			Complete	NA	CCGS	2010 fee paid 6/22/11. 2011 fee paid 7/18/11.
COMPLIANCE	COMPLIANCE-9b	OPS	Annual fees.	Payment of Annual Energy Facility Compliance Fee.	Annual Compliance Fee	Due annually on July 1	Ongoing		Not Started	NA	CCGS	
COMPLIANCE	COMPLIANCE-10	CONS	Reporting of Complaints, Notices and Citations.	Prior to the start of construction, the project owner must send a letter to property owners living within one mile of the project notifying them of a telephone number to contact project representatives with questions, complaints, or concerns. Within 10 days of receipt, the project owner shall report to the CPM, all notices, complaints, and citations.	Telephone Number for Nearby Property Owners to Call / Notice, Complaint, and Citation Reports	Prior to commencement of construction / Within 10 days of receipt	Ongoing		In-progress	NA	CCGS	Residents within one mile of the power plant project site were notified. Residents along the T-line are required to be notified prior to the start of T-line construction.
COMPLIANCE	COMPLIANCE-11	OPS	Planned Facility Closure.	The project owner shall submit a closure plan to the CPM at least 12 months prior to commencement of a planned closure.	Closure Plan	At least 12 months prior to commencement of planned closure	TBD		Not Started	NA	CCGS	
COMPLIANCE	COMPLIANCE-12	CONS	Unplanned Temporary Facility Closure.	To ensure that public health and safety and the environment are protected in the event of an unplanned temporary closure, the project owner shall submit an on-site contingency plan no less than 60 days prior to commencement of commercial operation.	On-site Contingency Plan	No less than 60 days prior to commencement of commercial operation	TBD		Not Started	NA	CCGS	
COMPLIANCE	COMPLIANCE-13	CONS	Unplanned Permanent Facility Closure.	To ensure that public health and safety and the environment are protected in the event of an unplanned permanent closure, the project owner shall submit an on-site contingency plan no less than 60 days prior to commencement of commercial operation. In the event of an unplanned permanent closure, the project owner shall notify the CPM, as well as other responsible agencies, by telephone, fax, or e-mail within 24 hours and shall take all necessary steps to implement the on-site contingency plan. A closure plan, consistent with the requirements for a planned closure, shall be developed and submitted to the CPM within 90 days of the permanent closure or another period of time agreed to by the CPM.	On-site Contingency Plan / Closure Plan	No less than 60 days prior to commencement of commercial operation / Within 90 days of permanent closure / 24-hour notice	TBD		Not Started	NA	CCGS	
COMPLIANCE	COMPLIANCE-14	CONS	Post-Certification Changes to the Decision.	The project owner must petition the Energy Commission to delete or change a condition of certification, modify the project design or operational requirements and/or transfer ownership of operational control of the facility.	Post Certification Modifications	As-Needed	As-needed	CEC approved on 10/25/11	As-Needed	NA	CCGS	Amendment No. 1 for additional laydown yard/parking area.

Oakley Generating Station Compliance Matrix Legend

Acronym and Abbreviation List

ACR	Annual Compliance Report
ANSI	American National Standards Institute
API	American Petroleum Institute
AQ	Air Quality
AQCMM	Air Quality Construction Mitigation Manager
AQCMP	Air Quality Construction Mitigation Plan
AQ-SC	Air Quality-Standard Construction
ASME	American Society of Mechanical Engineers
BAAQMD	Bay Area Air Quality Management District
BIO	Biological Resources
BMP	Best Management Practice
BRMIMP	Biological Resources Mitigation Implementation and Monitoring Plan
CalARP	California Accidental Release Program
Cal ISO	California Independent System Operator
Cal-OSHA	California Division of Occupational Safety and Health
CBO	Chief Building Officer (Contra Costa County)
CCCHSD-HCP	Contra Costa County Health Services Department – Hazardous Materials Program
CDFG	California Department of Fish & Game
CEC	California Energy Commission
CFR	Code of Federal Regulations
CHRIS	California State Historical Resources Commission
COMM	Commissioning
CONS	Construction

CPM	Compliance Project Manager
CPUC	California Public Utilities Commission
CRMMP	Cultural Resources Monitoring and Mitigation Plan
CRR	Cultural Resources Report
CRS	Cultural Resources Specialist
CUL	Cultural Resources
CV RWQCB	Central Valley Regional Water Quality Control Board
DESCP	Drainage, Erosion, and Sedimentation Control Plan
DOT	Department of Transportation
ECCFPD	East Contra Costa Fire Protection District
ELEC	Electrical
ERC's	emission reduction credits
FAA	Federal Aeronautics Administration
HAZ	Hazardous Materials
HVAC	Heating, Ventilation and Air Conditioning
HMBP	Hazardous Materials Business Plan
LORS	Law, Ordinances, Regulations and Standards
MCR	Monthly Compliance Report
ME	Mechanical Engineer
MECH	Mechanical
NPDES	National Pollutant Discharge Elimination System
NTSB	National Transportation Safety Board
OGS	Oakley Generating Station
OPS	Operations
PC	Pre-construction

PRMMP	Paleontological Resources Monitoring and Mitigation Plan
PRR	Paleontological Resources Report
RE	Resident Engineer
RMP	Risk Management Plan
RWQCB	Regional Water Quality Control Board
SOCIO	Socioeconomic Resources
S&W	Soil & Water
SPCCP	Spill Prevention, Control, and Countermeasure Plan
STRUC	Structural
SWCP	Storm Water Control Plan
SWPPP	Storm Water Pollution Prevention Plan
TBD	To be determined
USDOT	United States Department of Transportation
USEPA	Unites State Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
WATCH	Work Area Traffic Control Handbook
WEAP	Worker Environmental Awareness Program

Legend

Completed Items (gray)

Active or Future Items (white)