

# GRENIER & ASSOCIATES, INC.

ENVIRONMENTAL PLANNING • LICENSING & PERMITTING • REGULATORY COMPLIANCE

October 20, 2011

*Compliance Log #2011-019*

Ms. Christine Stora  
Compliance Project Manager  
California Energy Commission  
1516 Ninth Street, MS-2000  
Sacramento, CA 95814

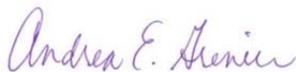
Subject: Lodi Energy Center (08-AFC-10C)  
Condition of Certification COM-6  
Monthly Compliance Report #14

Dear Ms. Stora:

In compliance with Condition of Certification COM-6 as set forth in the California Energy Commission's Final Decision for the Lodi Energy Center Project, enclosed please find one hard copy and one electronic version of the project's fourteenth Monthly Compliance Report for the period ending September 30, 2011.

If you have any questions regarding this submittal, please contact me at (916) 780-1171.

Sincerely,



Andrea Grenier  
Environmental Compliance Manager  
for the Lodi Energy Center Project

cc: Mike DeBortoli, NCPA



# Lodi Energy Center Project



September 2011  
Reporting Period

## Monthly Compliance Report #14

This document has been prepared by Grenier & Associates, Inc. on behalf of the Northern California Power Agency and represents the fourteenth monthly compliance report for the Lodi Energy Center Project. The information contained in this report covers construction, commissioning, and environmental compliance activities performed during September 2011.

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# Lodi Energy Center Project

Docket 08-AFC-10C

September 2011  
Reporting Period

## Monthly Compliance Report #14

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# MONTHLY COMPLIANCE REPORT #14

## ONE | INTRODUCTION

On April 21, 2010, the California Energy Commission (CEC) issued a license to the Northern California Power Agency (NCPA) for the construction and operation of the Lodi Energy Center Project. The CEC Compliance Project Manager (CPM) issued an Authority to Construct letter to NCPA on July 14, 2010, allowing the start of construction activities for all power plant and related linear facilities.

This document constitutes NCPA's fourteenth Monthly Compliance Report (MCR) for the Lodi Energy Center Project, as required by Condition of Certification COM-6 in the CEC Final Decision for the Project. The information in this report documents the construction, commissioning, and environmental compliance activities that were performed during September 2011.

## TWO | OVERALL PROJECT STATUS

NCPA has contracted with several companies to provide the engineering, procurement, and construction services needed to build the Lodi Energy Center Project. WorleyParsons (WP) is performing as NCPA's owners engineer and construction manager, providing engineering, procurement, and design services and overseeing the construction of the project. Siemens is providing the power island equipment, which includes the combustion turbine generator and associated equipment. ARB, Inc. (ARB) is the construction contractor for the power plant and transmission interconnection facilities. Pacific Gas and Electric Company (PG&E) will design, build, and operate the natural gas pipeline associated with the project.

As of the end of September 2011, the project was 75.1 percent complete overall. Project detailed design engineering has been completed, but WP's engineering team continues to provide support related to vendor submittal review and construction support. The following table presents the percent complete numbers for the engineering, procurement, and construction activities as of the end of the month.

<b>Activity</b>	<b>% Complete</b>
Engineering	99.9
Procurement	100.0
Construction	59.2
Commissioning	0

During September, the CTG erection continued with the trimming out of the CTG and CT Enclosures, installing CT piping systems, and erecting the Inlet Air Filterhouse. The CTG was mechanically completed in September. Pulling of cable from the Siemens Electrical Package to field devices also continued. The STG erection began and

all major components were set, and preliminary alignment is complete. The turbine connection to the condenser is complete. ARB continued with installation of pipe in the HRSG Area pipe rack. The STG Area pipe rack is nearly complete and ready for pipe installation.

The high-voltage conductors and OPGW from the switchyard to the CTG GSU Transformer were installed and sections of CTG isophase required for Backfeed have been set. ARB/Cupertino continued with pulling cable required for booting up the DCS. The Control Room furniture has been installed, and the UPS panel in the Control Room is complete. ARB's subcontractor Agate continued trim-out the STG Enclosure. Trim-out also continued on the Water Treatment Building; the roofing, east wall siding, and mezzanine floor are yet to be completed and the mezzanine floor is awaiting CBO approval of the architectural drawings. Switchyard equipment erection is now complete and Cupertino completed conduit installations and continued with cable pulls in the switchyard for switchyard control. ARB continued preparations for the HRSG hydrotest; tests are scheduled to begin the first week of October. SPX, the cooling tower supplier, mobilized late in the month to begin receiving material and begin tower erection. Another subcontractor, Paso Robles, also mobilized in early September and erected the Waste Water Injection Tank, and began the Service Water Tank.

Weekly coordination calls were held during the reporting period between NCPA, WP, and ARB. A project summary schedule is included in Exhibit 1 of this report. An updated key events list is included in Exhibit 2. The anticipated commercial operation date for the LEC is June 2012.

An aerial view of the project site taken in September is shown in Figure 1. Additional construction photos taken during the reporting period are provided in Exhibits 3 and 8.



**FIGURE 1: AERIAL VIEW OF LEC PROJECT SITE – September 2011**

## THREE | CONSTRUCTION AND COMMISSIONING ACTIVITIES

Previous reports provided detailed information on the engineering, procurement, and construction activities accomplished during the reporting period. Now that the bulk of the major engineering and procurement activities have been completed, this report focuses on the construction activities that were accomplished during the reporting period. As work on commissioning activities begins, a description of those activities will be incorporated into future reports.

### Construction

The following major construction activities were accomplished at the LEC project site during September:

#### General Activities

- Continued procurement, field fabrication and shop fabrication of aboveground piping
- Continued pulling 230Kv Pole cable (230Kv cable to CT GSU complete)
- Completed installation of new switchyard fence
- Commenced installation of street lighting foundations, conduit, grounding
- Commenced installation of DCS cabinets
- Commenced installation of instrumentation at CTG and HRSG areas

#### STG Activities

- Continued STG under-roof electrical and fire protection
- Continued STB building HVAC
- Continued foundations south of STG building
- Completed STG GSU foundation pedestal
- Commenced the STG GSU wall installation
- Continued STG enclosure interior support steel (iso phase support steel)
- Completed receipt and setting of ST Equipment including Generator and Turbine
- Commenced STG millwright alignment and installation of steam turbine package
- Completed installation of STG miscellaneous pump skid foundations
- Completed mobilization and demobilization of Bigge for setting ST Generator and Turbine
- Commenced receipt and installation of miscellaneous ST pumps and tanks
- Completed installation of steam surface condenser (boilermaker work)
- Continued STG Pipe rack support steel, platforms, ladders, stairs, and handrails
- Commenced installation of STG interconnecting piping (above lube oil skid)
- Continued installation of STG equipment.
- Completed erection of STG pipe rack steel
- Continue STG pipe rack , plumb, rattle and bolt up
- Commence STG pipe rack stairs, platforms and handrails

### HRSB Activities

- Completed installation of HRSB piping prior to HRSB hydro
- Continued HRSB lighting
- Continued above ground piping supports and piping installation
- Commenced preparation for HRSB hydrotesting

### West Area Activities

- Completed PDC#1 and #2 support and cable tray
- Received and commenced installation of auxiliary boiler
- Commenced receipt, shake out, and installation of auxiliary boiler steel
- Commenced receipt and installation of Boiler feed water pumps A & B
- Completed backfilling and grading of West corridor
- Continued MV cable pulls and preparation for future cable pulls

### Cooling Tower Area

- Completed receipt and setting of circulation water pumps
- Commenced installation of above ground circulating water pipe and valves at the cooling tower
- Commenced preparation for MV cable pulls at circulation water pumps
- Completed installation of platform steel, handrail, and grating at cooling tower pump structure

### CTG Area Activities

- Continued setting CTG related mechanical equipment
- Continued installation of CTG piping
- Continued CTG electrical
- Continued CTG area structural steel and filter house

### Water Treatment Building Activities

- Continued Water Treatment Building (WTB) foundations (west and south)
- Continued erection of WTB
- Continued WTB masonry
- Continued rough set of WTB equipment
- Continued installation of WTB AG vendor supplied piping
- Commenced WTB electrical at ground level electrical room

### North Area Activities

- Completed Raw Water underground and backfill
- Continued installation of ISO Phase bust duct, cable, electrical and weld splices at CT equipment

Key construction activities ***planned for October 2011*** are described below:

### General Activities

- Continue procurement, field fabrication of aboveground piping
- Substantial completion of planned shop fabrication of aboveground piping
- Continue installation of street lighting foundations, conduit, grounding
- Continued installation of instrumentation at CTG and HRSG areas

### STG Activities

- Continue STG under-roof electrical
- Complete STG building foam fire protection equipment installation and GSU wall installation
- Complete foundations south of STG building
- Continue STG enclosure interior support steel and millwright alignment
- Continue installation of steam turbine package
- Continue receipt and installation of miscellaneous ST pumps and tanks
- Complete bolt up of STG Pipe rack support steel, platforms and stairs
- Commence cable tray at STG pipe rack
- Continue installation of STG interconnecting piping
- Commence LB AG pipe and supports at STG pipe rack

### HRSG Activities

- Continue above ground piping supports and piping
- Commence HRSG hydrotesting
- Commence insulation of HRSG piping

### West Area Activities

- Complete installation of Auxiliary Boiler and steel
- Complete installation of Boiler feed water pumps A & B
- Commence pipe above boiler feed water pumps
- Commence Sample panel foundation

### Cooling Tower Area

- Continue installation of above ground circulating water pipe
- Complete platform steel

### CTG Area Activities

- Continue setting CTG related mechanical equipment
- Complete installation of CTG piping and CTG area structural steel and filter house
- Continue CTG electrical

### Water Treatment Building Activities

- Continue Water Treatment Building foundations
- Continue erection of WTB and masonry
- Continue rough set of WTB equipment
- Continue installation of WTB AG vendor supplied piping
- Continue WTB electrical
- Commence installation of Clarifiers and Reactors tanks

### North Area Activities

- Complete installation of ISO Phase bust duct, cable, electrical and weld splices at CT equipment

### East Area Activities

- Complete installation of duct bank 0631
- Commence installation of fuel gas compressor foundation
- Complete ST GSU walls
- Commence layout for ST Circuit Breaker isophase foundations

## **Commissioning**

Power plant commissioning activities are expected to begin in late October 2011 and will be addressed in future MCRs.

## **FOUR | COMPLIANCE ACTIVITIES**

This section of the monthly compliance report provides input on NCPA's activities related to ensuring that compliance with all the Conditions of Certification as set forth in the CEC's Final Decision for the Lodi Energy Center Project is achieved in a timely and satisfactory manner. The following information is provided per the requirements set forth in Condition of Certification COM-6.

### **Compliance Matrix**

The compliance matrix 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 delegate agency.

### **Completed Compliance Activities**

During September, the following compliance submittals were provided to the CEC CPM: AQ-61 (CEMS Protocol) and COM-6 (MCR #13). The CEC Staff did not conduct a site visit in September.

## Required Documents Submitted With This Report

The Final Decision sets forth specific conditions, many of which include reporting requirements that must be addressed in this MCR. The following paragraphs describe the compliance activities that were completed during the September 2011 reporting period:

**AQ-SC1:** The Air Quality Construction Mitigation Manager (AQCOMM) for the project is responsible for directing and documenting compliance with AQ-SC3, AQ-SC4, and AQ-SC5 for the entire project site and linear facility construction. Additional AQCOMM delegates will be assigned as needed to cover situations when there are multiple tasks occurring simultaneously that require oversight, extended hours of construction, or when the AQCOMM is unavailable. The AQCOMM's daily monitoring log is available on site for the CPM's inspection.

**AQ-SC2:** Construction mitigation measures as set forth in Conditions AQ-SC3, AQ-SC4, and AQ-SC5 as well as in the LEC Air Quality Construction Mitigation Plan were complied with during the reporting period. The AQCOMM's monthly report is included in Exhibit 7.

**AQ-SC3:** Approximately 205,000 gallons of construction water from the White Slough Water Pollution Control Facility were used for dust control purposes. Work activities requiring dust control are more completely described in the AQCOMM's monthly report included in Exhibit 7.

**AQ-SC4:** Dust plume control measures were implemented as necessary and information on their use (if required) is included in the AQCOMM's monthly report included in Exhibit 7.

**AQ-SC5:** A summary of the diesel engine certification information required by this condition is included as part of the AQCOMM's monthly report included in Exhibit 7, along with diesel fuel purchase information.

**BIO-2:** Rick Crowe is the Designated Biologist for the LEC Project. His monthly Biological Resources Mitigation Implementation and Monitoring Report, which provides a summary of the September 2011 construction activities and associated biological monitoring, is included in Exhibit 8.

**BIO-5:** In accordance with this condition, 75 personnel received the Construction Worker Environmental Awareness Program training during the reporting period, bringing the total trained to date to 1,144. Copies of the worker's certification training and sign-in sheets for the reporting period are included in Exhibit 9.

**BIO-6:** This condition requires that the Designated Biologist/Biological Monitor's provide monthly documentation on how the biological mitigation measures included in the BRMIMP have been implemented during the monthly reporting period. This information is included in the DB's monthly report (see Exhibit 8).

**BIO-7:** This condition requires that the Designated Biologist/Biological Monitor's provide monthly documentation on how the impact avoidance and minimization measures have been implemented during the monthly reporting period. This information is included in the DB's monthly report (see Exhibit 8).

**BIO-8:** This condition requires that the Designated Biologist/Biological Monitor's provide monthly documentation on how measures to minimize or avoid harassment or harm to sensitive species have been

implemented during the monthly reporting period. This information is included in the DB's monthly report (see Exhibit 8).

**BIO-9:** This condition requires that the Designated Biologist/Biological Monitor's monthly report include a discussion of implementation of giant garter snake mitigation and avoidance measures. This information is included in the DB's monthly report (see Exhibit 8).

**BIO-10:** This condition requires that the Designated Biologist/Biological Monitor's monthly report include a discussion of implementation of burrowing owl mitigation and avoidance measures. This information is included in the DB's monthly report (see Exhibit 8).

**BIO-11:** This condition requires that the Designated Biologist/Biological Monitor's monthly report include a discussion of implementation of Swainson's hawk mitigation and avoidance measures. This information is included in the DB's monthly report (see Exhibit 8).

**BIO-12:** This condition requires that the Designated Biologist/Biological Monitor's monthly report include a discussion of implementation of migratory bird mitigation and avoidance measures. This information is included in the DB's monthly report (see Exhibit 8).

**BIO-13:** This condition requires that the Designated Biologist/Biological Monitor's monthly report include a discussion of implementation of northwestern and western pond turtle mitigation and avoidance measures. This information is included in the DB's monthly report (see Exhibit 8).

**CIVIL 1-4:** Copies of relevant CBO approval letters are provided in Exhibit 4.

**COM-5:** The updated compliance matrix is provided in Exhibit 6.

**CUL-5:** In accordance with this condition, 75 personnel received the Construction Worker Environmental Awareness Program training during the reporting period, bringing the total trained to date to 1,144. Copies of the worker's certification training and sign-in sheets for the reporting period are included in Exhibit 9.

**CUL-6:** The Cultural Resources Specialist's monthly summary report is included in Exhibit 8.

**GEN-2:** To reduce the size of this MCR, the updated master drawing and spec list is available for viewing by accessing the LEC Project webpage that has been set up by the CBO.

**GEN-3:** During September, NCPA made payments to the CBO in the amount of \$64,479.

**GEN-6:** Information related to the approval of any special inspectors and fabricators during the reporting period is included in Exhibit 4.

**MECH-1:** Information related to inspection approvals of any major piping or plumbing mechanical systems is provided in Exhibit 4.

**MECH-2:** Information related to the inspection approvals of any HVAC and pressure vessel systems is provided in Exhibit 4.

**PAL-4:** In accordance with this condition, 75 personnel received the Construction Worker Environmental Awareness Program training during the reporting period, bringing the total trained to date to 1,144. Copies of the worker's certification training and sign-in sheets for the reporting period are included in Exhibit 9.

**PAL-5:** The Paleontological Resource Specialist's monthly report is included in Exhibit 8.

**S&W-2:** Information related to the implementation of construction SWPPP activities is included in the Air Quality Construction Mitigation Manager's Monthly Report provided in Exhibit 7.

**S&W-7:** San Joaquin County issued Well Construction Permit No. 425149 on 7/31/12. A copy of the permit is included in Exhibit 11. We are awaiting Staff's approval so that construction can commence.

**STRUC-1:** Copies of relevant CBO approval letters are provided in Exhibit 4.

**STRUC-2:** A log of the Non-Compliance Reports is provided in Exhibit 12.

**STRUC-4:** Information related to the CBO's approval of any structural inspections is provided in Exhibit 4.

**TSE-1:** WorleyParsons initial submittal of the master drawing and spec list of the transmission system was approved by the CBO on August 5, 2010. To reduce the size of this MCR, the updated list is available for viewing by accessing the LEC Project webpage that has been set up by the CBO.

**TSE-4:** This condition requires information related to the following topics: a) receipt or delay of major electrical equipment; b) testing or energization of major electrical equipment; and c) the number of electrical drawings approved, submitted for approval, and still to be submitted. All electrical equipment has been received and testing is underway. Energization of the equipment is expected to occur by year end.

**VIS-1:** No construction-related lighting complaints were received during the reporting period.

**VIS-4:** Installation of exterior lighting continues. A request for an onsite inspection by the CEC CPM will be requested once the work is completed.

**Worker Safety-3:** NCPA's Construction Safety Supervisor's monthly safety report is included in Exhibit 10.

**Worker Safety-4:** The CBO is providing the services of a Site Safety Monitor who will provide monthly reports on the implementation of all Cal/OSHA and CEC safety requirements. The CBO Safety Monitor's monthly report is included in Exhibit 10.

### **Submittal Deadlines Not Met**

No submittal deadlines were missed during the reporting period.

### **Approved Changes to Conditions of Certification**

NCPA filed a petition in July 19, 2011 with the CEC CPM requesting changes to the project's gas line route. The amendment is required to accommodate final design plans developed by PG&E during the last several months. A Notice of Determination was filed on August 30, 2011 and re-circulated on September 15, 2011. The CEC issued

an approval letter to NCPA on September 29, 2011. PG&E is expected to begin construction of the gas line in October. A copy of the encroachment permit issued by the County is provided in Exhibit 11.

### **Filings or Permits Issued by Other Governmental Agencies**

A copy of the well construction permit (Well Permit # 425149) issued by San Joaquin County is provided in Exhibit 11.

### **Projected Compliance Activities for October/November 2011**

NCPA will continue to report progress on the compliance activities noted above. In addition, the following compliance documents will continue to be monitored with the CEC or submitted during October/November:

- WS-2: Operations Safety and Health Plan
- HAZ-6: Operations Security Plan
- TLSN-5: Metallic Objects Letter of Compliance
- S&W-6: Engineers Report and Cross Connection Inspection

### **Listing of Additions to Onsite Compliance Files During the Reporting Period**

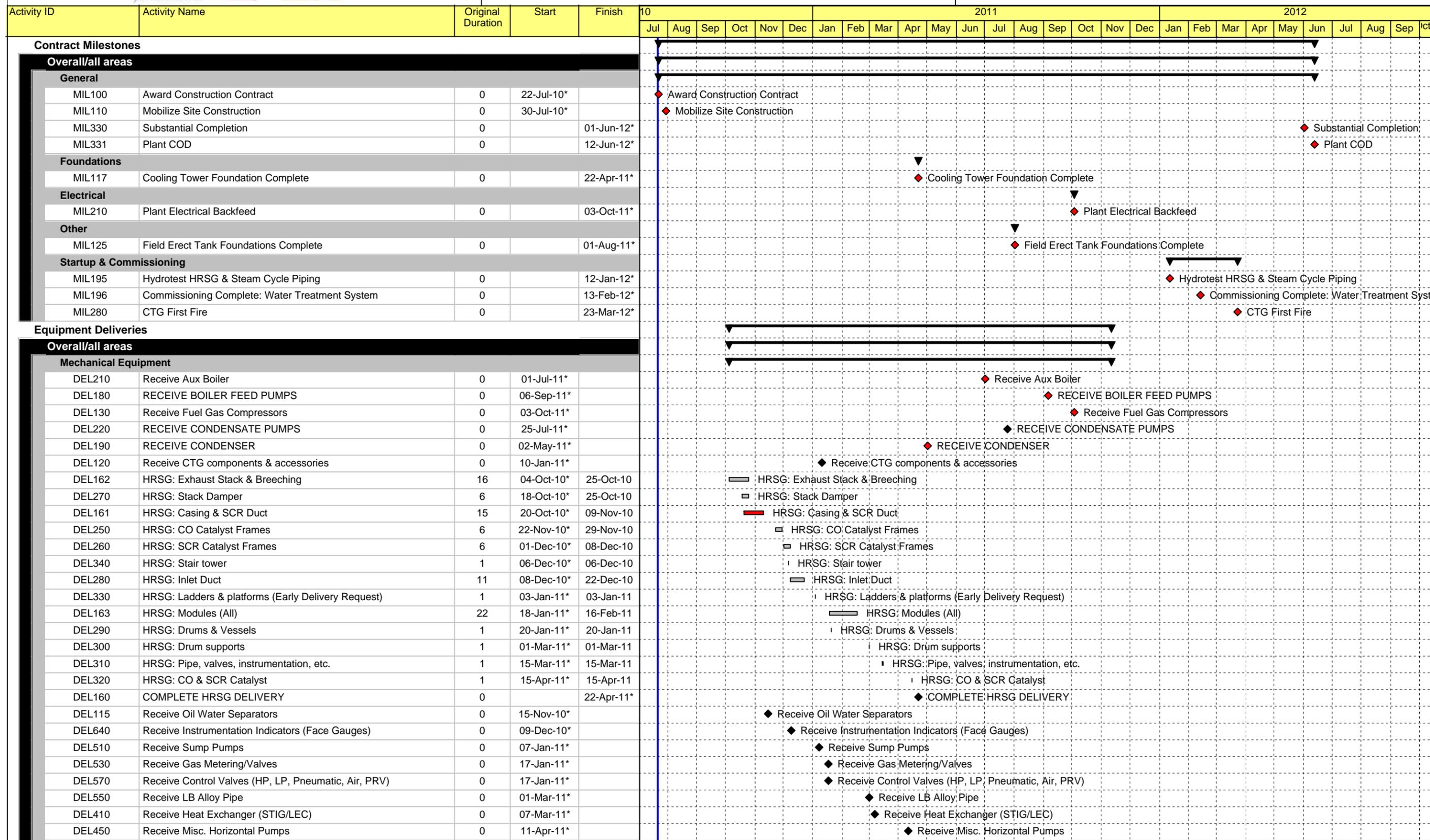
Copies of the documents included in the exhibits to this monthly compliance report have been added to the onsite compliance files.

### **Requests to Dispose of Items Required To Be In Compliance Files**

For this reporting period, no requests are being made for the disposal of items listed in the project owner's compliance files.

Exhibit 1

Project Summary Schedule



▬ Remaining Summary (LOE)   
 ▬ Critical Remaining Work   
 ◆ Milestone  
 Remaining Work   
 ◆ Critical Milestone   
 ▬ Summary



































Exhibit 2

Key Events List

## KEY EVENTS LIST

PROJECT: LODI ENERGY CENTER

DOCKET #: 08-AFC-10C

COMPLIANCE PROJECT MANAGER: CHRISTINE STORA

EVENT DESCRIPTION	DATE
Certification Date	4/21/10
Obtain Site Control	3/22/10
Online Date	JUNE 2012
<b>POWER PLANT SITE ACTIVITIES</b>	
Start Site Mobilization	7/30/10
Start Ground Disturbance	8/7/10
Start Grading	8/7/10
Start Construction	10/1/10
Begin Pouring Major Foundation Concrete	10/8/10
Begin Installation of Major Equipment	11/1/10
Completion of Installation of Major Equipment	3/5/12
First Combustion of Gas Turbine	3/23/12
Obtain Building Occupation Permit	?
Start Commercial Operation	6/1/12
Complete All Construction	6/1/12
<b>TRANSMISSION LINE ACTIVITIES</b>	
Start T/L Construction	6/8/11
Synchronization with Grid and Interconnection	3/29/12
Complete T/L Construction	7/5/11
<b>FUEL SUPPLY LINE ACTIVITIES</b>	
Start Gas Pipeline Construction and Interconnection	TBD
Complete Gas Pipeline Construction	2/1/12
<b>WATER SUPPLY LINE ACTIVITIES</b>	
Start Water Supply Line Construction	11/15/11
Complete Water Supply Line Construction	11/23/11

Exhibit 3

Construction Photographs

### 3.0 ATTACHMENTS

#### 3.1 PROJECT PHOTOGRAPHS



CTG (looking northeast)



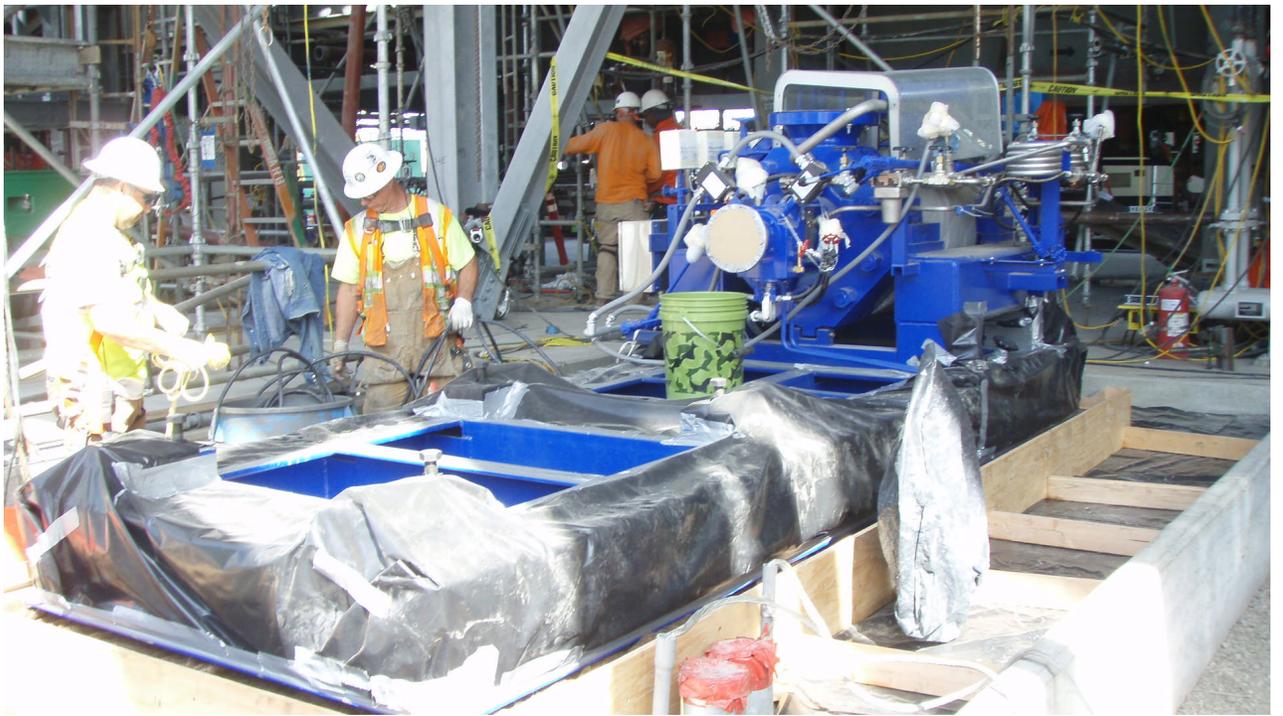
CTG Isophase (looking north)



Piperack (looking southeast)



CCCW Pumps



BFP



Aux Boiler (looking east)



WTB (looking southwest)



Filter Presses



WTB Equipment



Looking southwest from Stack



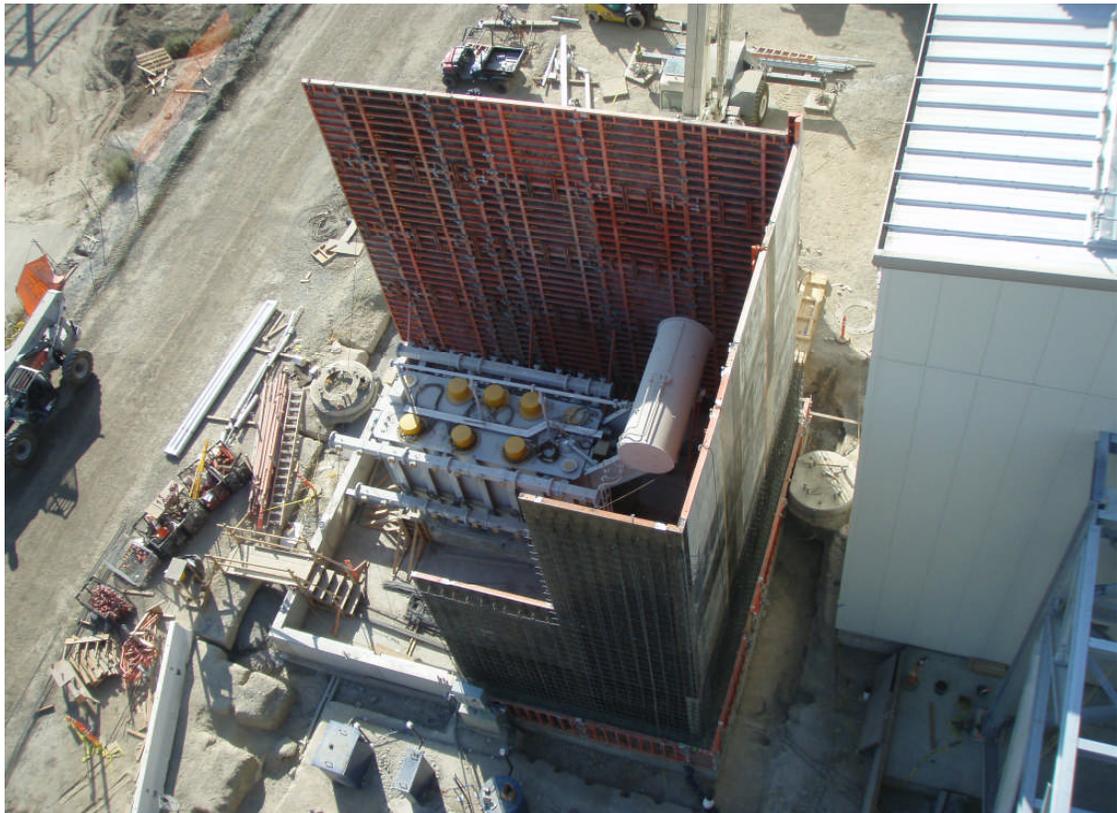
ST Generator Set



IP-LP Turbine Set



HP Turbine Set



STG GSU Blastwalls



Circulating Water and Aux Cooling Water Pumps Set



WT System Transformers Set with Busduct



Cooling Tower Bents Assembled

Exhibit 4

CBO Approvals

## Hays, Nancy (Sacramento)

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**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Tuesday, September 06, 2011 9:52 AM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



### **MECH-01A 68.13 (REV 1) (110906).zip**

APPROVED: High Energy Pipe Supports - Boiler Feedwater (Lisega)

[Download this file](#) 6.1 MB

Category: -Plan Review APPROVALS

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## Hays, Nancy (Sacramento)

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**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Tuesday, September 06, 2011 10:01 AM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

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**STRUCT-01A 31.4 (REV 1) (110906).zip**

APPROVED: STG Utility Bridge (S&S Steel)

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**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
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**Subject:** [Lodi Energy Center] A new file has been uploaded

**Project:** [Lodi Energy Center](#)  
**Company:** TRB and Associates

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### **MECH-01A 62.1 (REV 1) (110906).zip**

REVIEWED FOR REFERENCE: Fuel Gas Isometrics

[Download this file](#) 849.7 KB

Category: -Plan Review REFERENCE ONLY

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Project: [Lodi Energy Center](#)  
Company: TRB and Associates

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### **STRUCT-01A 31.5 (REV 1) (110906).zip**

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## Hays, Nancy (Sacramento)

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Project: [Lodi Energy Center](#)  
Company: TRB and Associates

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**STRUCT-01A 31.6 (REV 1) (110906).zip**

APPROVED: STG Utility Bridge (S&S Steel)

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## Hays, Nancy (Sacramento)

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**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
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**Project:** [Lodi Energy Center](#)  
**Company:** TRB and Associates

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### **STRUCT-01A 31.7 (REV 1) (110907).zip**

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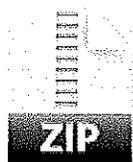
## Hays, Nancy (Sacramento)

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**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
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**Project:** [Lodi Energy Center](#)  
**Company:** TRB and Associates

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### **STRUCT-01A 31.8 (REV 1) (110908).zip**

APPROVED: STG Utility Bridge (S&S Steel)

[Download this file](#) 5.1 MB

Category: -Plan Review APPROVALS

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Friday, September 09, 2011 11:46 AM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



**STRUCT-01A 31.9 (REV 1) (110909).zip**

APPROVED: STG Utility Bridge

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Friday, September 09, 2011 1:55 PM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



### **GEN-5 4.1 (REV 0) (110909).zip**

APPROVED: Deputy RE - Matthew Tedesche

[Download this file](#) 100.2 KB

Category: -Plan Review APPROVALS

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Friday, September 09, 2011 4:21 PM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



### **STRUCT-01A 31.11 (REV 1) (110909).zip**

APPROVED: Steam Turbine Enclosure (S&S Steel)

[Download this file](#) 30.8 MB

Category: -Plan Review APPROVALS

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Monday, September 12, 2011 9:22 AM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



### **MECH-01A 68.36 (REV 0) (110912).zip**

APPROVED: Pipe Supports Boiler Blowdown System (Lisega)

[Download this file](#) 3 MB

Category: -Plan Review APPROVALS

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Thursday, September 22, 2011 8:40 AM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



**TLNS-01 0.1 (REV 5) (110922).zip**

APPROVED: 230kv Switchyard Drawings

[Download this file](#) 1.5 MB

Category: -Plan Review APPROVALS

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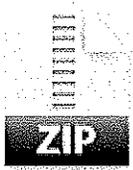
## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Thursday, September 22, 2011 8:42 AM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



**TLNS-01 0.2 (REV 1) (110922).zip**

APPROVED: 230kv Switchyard Drawings

[Download this file](#) 890.3 KB

Category: -Plan Review APPROVALS

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]

**Sent:** Thursday, September 22, 2011 8:49 AM

**To:** Hays, Nancy (Sacramento)

**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)

Company: TRB and Associates

Stacey Hughes uploaded a new file:



**TLNS-01 0.3 (REV 1) (110922).zip**

APPROVED: 230kv Switchyard Drawings

[Download this file](#) 5.2 MB

Category: -Plan Review APPROVALS

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Friday, September 23, 2011 1:59 PM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



### **GEN-6 14.0 (REV 0) (110923).zip**

APPROVED: Paso Robles Tank Inc. - Certs

**[Download this file](#)** 8.9 MB

Category: -Plan Review APPROVALS

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## Hays, Nancy (Sacramento)

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**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Tuesday, September 27, 2011 10:10 AM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



### **MECH-01A 68.13 (REV 2) (110927).zip**

APPROVED: Pipe Supports - Boiler Feedwater (Lisege)

[Download this file](#) 187.5 KB

Category: -Plan Review APPROVALS

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## Hays, Nancy (Sacramento)

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**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]

**Sent:** Tuesday, September 27, 2011 10:41 AM

**To:** Hays, Nancy (Sacramento)

**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)

Company: TRB and Associates

Stacey Hughes uploaded a new file:



### **MECH-01A 68.43 (REV 0) (110927).zip**

APPROVED: Pipe Supports - Steam Turbine Drain System (Lisega)

[Download this file](#) 1.6 MB

Category: -Plan Review APPROVALS

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## Hays, Nancy (Sacramento)

---

**From:** Michelle Masterman [notifications@trbplus.basecamphq.com]

**Sent:** Monday, September 26, 2011 12:26 PM

**To:** Hays, Nancy (Sacramento)

**Subject:** [Lodi Energy Center] New files have been uploaded

Project: [Lodi Energy Center](#)

Company: TRB and Associates

Michelle Masterman uploaded these new files:



**STRUCT-01A 56.0 (REV 2) (110926) 1 of 2.zip**

CONDITIONAL APPROVAL: SPX Cooling Tower (1 of 2)

[Download this file](#) 47.5 MB

Category: -Plan Review CONDITIONAL APPROVAL



**STRUCT-01A 56.0 (REV 2) (110926) 2 of 2.zip**

CONDITIONAL APPROVAL: SPX Cooling Twoer (2 of 2)

[Download this file](#) 66.1 MB

Category: -Plan Review CONDITIONAL APPROVAL

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]

**Sent:** Wednesday, September 28, 2011 12:48 PM

**To:** Hays, Nancy (Sacramento)

**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)

Company: TRB and Associates

Stacey Hughes uploaded a new file:



**STRUCT-01A 56.0 (REV 2) (110926) 1 of 2.zip**

CONDITIONAL APPROVAL: SPX Cooling Tower (1 of 2)

[Download this file](#) 47.6 MB

Category: -Plan Review CONDITIONAL APPROVAL

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]

**Sent:** Wednesday, September 28, 2011 12:59 PM

**To:** Hays, Nancy (Sacramento)

**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)

Company: TRB and Associates

Stacey Hughes uploaded a new file:



**STRUCT-01A 56.0 (REV 2) (110926) 2 of 2.zip**

CONDITIONAL APPROVAL: SPX Cooling Tower (2 of 2)

[Download this file](#) 66.1 MB

Category: -Plan Review CONDITIONAL APPROVAL

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## Hays, Nancy (Sacramento)

---

**From:** Michelle Masterman [notifications@trbplus.basecamphq.com]

**Sent:** Friday, September 30, 2011 8:54 AM

**To:** Hays, Nancy (Sacramento)

**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)

Company: TRB and Associates

Michelle Masterman uploaded a new file:



### **STRUCT-01A 32.0 (REV 3) (110930).zip**

APPROVED: Raw Water Treatment Equipment Foundation (revised drawing)

[Download this file](#) 231.3 KB

Category: -Plan Review APPROVALS

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## Hays, Nancy (Sacramento)

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**From:** Michelle Masterman [notifications@trbplus.basecamphq.com]

**Sent:** Thursday, September 01, 2011 11:12 AM

**To:** Hays, Nancy (Sacramento)

**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)

Company: TRB and Associates

Michelle Masterman uploaded a new file:



**MECH-01A 66.0 (REV 1) (110901).zip**

COMMENTS: Fire Protection Technical Specifications

[Download this file](#) 309.1 KB

Category: -Plan Review COMMENTS

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## Hays, Nancy (Sacramento)

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**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Wednesday, September 07, 2011 4:51 PM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



### **STRUCT-01A 41.2 (REV 0) (110907).zip**

COMMENTS: Architectural Sketches for WTB

[Download this file](#) 255.3 KB

Category: -Plan Review COMMENTS

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## Hays, Nancy (Sacramento)

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**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Monday, September 12, 2011 9:30 AM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



### **MECH-01A 68.37 (REV 0) (110912).zip**

COMMENTS: Pipe Supports Hot Reheat Steam System (Lisegea)

[Download this file](#) 86.2 KB

Category: -Plan Review COMMENTS

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## Hays, Nancy (Sacramento)

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**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Monday, September 12, 2011 9:38 AM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



**MECH-01A 68.38 (REV 0) (110912).zip**  
COMMENTS: Pipe Supports Steam Drain System (Lisegea)  
[Download this file](#) 84.2 KB  
Category: -Plan Review COMMENTS

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## Hays, Nancy (Sacramento)

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**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Monday, September 19, 2011 10:13 AM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

**Project:** [Lodi Energy Center](#)  
**Company:** TRB and Associates

Stacey Hughes uploaded a new file:



**STRUCT-01A 58.1 (REV 0) (110919).zip**  
COMMENTS: IDI - Fiberglass Tanks (Seismic Tie Downs)  
[Download this file](#) 85.6 KB  
Category: -Plan Review COMMENTS

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Tuesday, September 20, 2011 1:45 PM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



**STRUCT-01A 41.0 (REV 3) (110920).zip**

COMMENTS: Water Treatment Building (Agate Steel)

[Download this file](#) 120.1 KB

Category: -Plan Review COMMENTS

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Wednesday, September 21, 2011 8:46 AM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



**STRUCT-01A 41.3 (REV 0) (110921).zip**  
COMMENTS: WTB Stair, Landing and Handrail Dwgs (Agate)  
[Download this file](#) 217.8 KB  
Category: -Plan Review COMMENTS

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]

**Sent:** Tuesday, September 27, 2011 10:17 AM

**To:** Hays, Nancy (Sacramento)

**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)

Company: TRB and Associates

Stacey Hughes uploaded a new file:



**MECH-01A 68.40 (REV 0) (110927).zip**

COMMENTS: Pipe Supports - Hot Reheat Steam System (Lisega)

[Download this file](#) 155.8 KB

Category: -Plan Review COMMENTS

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]

**Sent:** Tuesday, September 27, 2011 10:30 AM

**To:** Hays, Nancy (Sacramento)

**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)

Company: TRB and Associates

Stacey Hughes uploaded a new file:



### **MECH-01A 68.41 (REV 0) (110927).zip**

COMMENTS: Pipe Supports Aux Steam System (Lisege)

[Download this file](#) 168 KB

Category: -Plan Review COMMENTS

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamp.com]

**Sent:** Tuesday, September 27, 2011 10:36 AM

**To:** Hays, Nancy (Sacramento)

**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)

Company: TRB and Associates

Stacey Hughes uploaded a new file:



**MECH-01A 68.42 (REV 0) (110927).zip**

COMMENTS: Pipe Supports Steam Drains System (Lisega)

[Download this file](#) 158 KB

Category: -Plan Review COMMENTS

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## Hays, Nancy (Sacramento)

---

**From:** Stacey Hughes [notifications@trbplus.basecamphq.com]  
**Sent:** Thursday, September 29, 2011 9:34 AM  
**To:** Hays, Nancy (Sacramento)  
**Subject:** [Lodi Energy Center] A new file has been uploaded

Project: [Lodi Energy Center](#)  
Company: TRB and Associates

Stacey Hughes uploaded a new file:



**MECH-01A 68.44 (REV 0) (110929).zip**

COMMENTS: Pipe Supports - Aux Steam System (Lisegea)

[Download this file](#) 86.4 KB

Category: -Plan Review COMMENTS

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Exhibit 5

Look Ahead Schedules

Description	Week Date Day	September							September							September							COMMENTS							
		LAST WEEK							FIRST WEEK							SECOND WEEK								THIRD WEEK						
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		26	27	28	29	30	1	2
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S			
<b>General Activities</b>																														
Fabricate A/G Pipe Field and Shop Fabrication																														
Excavate and install Street lighting foundations, Conduit, Grounding																														
Switchyard Construction																													Bolting issues addressed	
230 KV Pole Line Foundation																													Mob to Drill F-8	
Set 230 KV Pole and pull cable																													Pole setting to start 8/17	
<b>STG Area</b>																														
Assemble Condensor																													Continue on Transition and water boxes Extended neck work After IP Turbine Alignment 9/19	
STG Building A/G Electrical																														
Form, Rebar, Pour STG GSU Foundation																													Pad and pier complete, rebar and forming walls.	
Receive, Install Interior Rack, Support Steel																													Bolting, handrail, grating, moment welds	
Install STG Misc. Pipe Rack Foundations/Heat Exchangers/Pump Skids																														
Install equipment/ Housekeeping pads inside building																														
Shake out install STG pipe rack steel																														
Receive, Rough Set Equipment Inside ST Building																														
Dresser Rand continue ST, STG																														
Erect STG Enclosure Building/Open Penetrations, Install ladders, Roof, Walkways																													Trim out and cut penetrations, install ladders & walkways Final trim out, install roof panels after equipment set	
<b>HRSG Area</b>																														
Install HRSG Large Bore Supports																														
HRSG Vendor Supplied Pipe Fabrication																													Installation of last 3 valves when received	
Install BOP Pipe & Supports North/South Pipe Rack																													Continue pending receipt of customer supplied pipe	
Prep For HRSG Hydro																														
Install Cable Tray and Lighting																														
<b>East Area</b>																														
Excavate and install UG Drains for Fuel Gas compressor to OWS																														
Form, Rebar, Pour Fuel Gas Compressor foundation																													After HRSG Hydro	
<b>West Area</b>																														
PDC #1 Support & Cable Tray/Pull Cable/Terminations																													Continue Terminations	
PDC #2 Support & Cable Tray/Misc. Electrical/Cable Pulls/ Terminations																													Cable Pulls from PDC # 1, Continue Terminations	
Form, Rebar, Pour Aux. Boiler foundation/Housekeeping pads																														
Receive Steel, Shake out, Preassemble, Install																														
Set Aux. Boiler																														
Trench, Install Street light Foundation, Conduit, Grounding																														
Granite Mob, Backfill, Grading																													Working Backfill, Grading under Pipe Rack	
<b>Water Treatment Building</b>																														
WTB Foundation																														

Description	Week Date Day	September							September							September							COMMENTS							
		LAST WEEK							FIRST WEEK							SECOND WEEK								THIRD WEEK						
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		26	27	28	29	30	1	2
	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S		
Install Misc. LB, SB piping																														
Rough Set Equipment																												Continue after Building and Mezzanine deck erection		
Excavate, Form, Rebar, Pour Chem. Feed Foundation																												Chemical area Foundation to start		
Excavate, Form, Rebar, Pour Raw Water Treatment (Clarifier) Foundation																														
Excavate and install mics. Drain lines																														
Erect Building																														
<b>Cooling Tower Area</b>																														
Install Circ Water Pipe at Cooling Tower/ install Valves																												Waiting on 54" Valve delivery		
Install platform steel, handrail @pump basin																														
Receive and set Circ. Water pumps																														
<b>CTG Area</b>																														
CTG																														
Erect Generator Enclosure																												Finish after pipe, instrumentation installation		
Erect CT Enclosure																												Roof being left open for pipe, instrumentation installation		
Install Misc.Piping/Supports																														
CTG Misc.Electrical/ Conduit, Pull Cable																														
Install Air Intake Steel/Filter House																														
<b>North Area</b>																														
Shake Out, install ISO Phase Bushings, Steel, Bus Duct & Cable, Weld splices																												Waiting on Weld Procedure, PQR		

Description	Week Date Day	September							September							October									COMMENTS			
		LAST WEEK							FIRST WEEK							SECOND WEEK			THIRD WEEK									
		12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4		5	6	7
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	
<b>General Activities</b>																												
Fabricate A/G Pipe Field and Shop Fabrication																												
Excavate and install Street lighting foundations, Conduit, Grounding																												
Switchyard Construction																												
230 KV Pole Line Foundation																												
Set 230 KV Pole and pull cable																												
<b>STG Area</b>																												
Assemble Condensor																												
STG Building A/G Electrical																												
Form, Rebar, Pour STG GSU Foundation/Walls, Strip																												
Receive, Install Interior Rack, Support Steel																												
Install STG Misc. Pipe Rack Foundations/Heat Exchangers/Pump Skids																												
Install equipment/ Housekeeping pads inside building																												
Shake out install STG pipe rack steel																												
Receive, Rough Set Equipment Inside ST Building																												
Dresser Rand continue ST, STG																												
Erect STG Enclosure Building/Open Penetrations, Install ladders, Roof, Walkways																												
Granite Continue Backfill, and Grading																												
<b>HRSR Area</b>																												
Install HRSR Large Bore Supports																												
HRSR Vendor Supplied Pipe Fabrication																												
Install BOP Pipe & Supports North/South Pipe Rack																												
Prep For HRSR Hydro																												
Install Cable Tray and Lighting																												
<b>East Area</b>																												
Trench, install Conduit & Cable for Security Gate SE corner.																												
Install UG Drains for Fuel Gas compressor to OWS/Backfill																												
Form, Rebar, Pour Fuel Gas Compressor foundation																												
<b>West Area</b>																												
PDC #1 Support & Cable Tray/Pull Cable/Terminations																												
PDC #2 Support & Cable Tray/Misc. Electrical/Cable Pulls/ Terminations																												
Receive Aux. Boiler Steel, Shake out, Preassemble, Install																												
Set Aux. Boiler and Assemble																												
Trench, Install Street light Foundation, Conduit, Grounding																												
Granite Continue, Backfill, Grading																												
<b>Water Treatment Building</b>																												

Description	Week Date Day	September										September										October									COMMENTS
		LAST WEEK					FIRST WEEK					SECOND WEEK					THIRD WEEK														
		12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9		
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S				
WTB Foundation																															
Install Misc. LB, SB piping																															
Rough Set Equipment																														Continue after Building and Mezzanine deck erection	
Excavate, Form, Rebar, Pour Chem. Feed & Cooling area Foundation South Side																														Chemical area Foundation to start	
Excavate, Form, Rebar, Pour Raw Water Treatment (Clarifier) Foundation																															
Continue Equipment, Cable tray WT Electrical Room																															
Erect Building, Mezzanine Deck																															
<b>Cooling Tower Area</b>																															
Install Circ Water Pipe at Cooling Tower/ install Valves																														Waiting on 54" Valve delivery	
Granite Continue Backfill and Grading																														Around fence line and fire wall	
<b>CTG Area</b>																															
CTG																															
Erect Generator Enclosure																														Finish after pipe, instrumentation, electrical installation	
Erect CT Enclosure																														Roof being left open for pipe, instrumentation, electrical installation	
Install Misc.Piping/Supports																															
CTG Misc.Electrical/ Conduit, Pull Cable																															
Install Air Intake Steel/Filter House																														Install Filter Media at Later Date	
<b>North Area</b>																															
Shake Out, install ISO Phase Bushings, Steel, Bus Duct & Cable, Weld splices																														Waiting on Welder to start 9/19	

Description	Week Date Day	September																October																COMMENTS
		LAST WEEK								FIRST WEEK								SECOND WEEK								THIRD WEEK								
		19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16					
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S							
<b>General Activities</b>																																		
Fabricate A/G Pipe Field and Shop Fabrication																																		
Excavate and install Street lighting foundations, Conduit, Grounding																																		
Switchyard Construction																																		
Set 230 KV Pole and pull cable																																		
<b>STG Area</b>																																		
Assemble Condensor																													Continue Fit and Weld on Transition					
Install Condensate Pipe																																		
STG Building A/G Electrical																																		
Form, Rebar, Pour STG GSU Foundation/Walls, Strip																													Pad and pier complete, rebar and forming walls.					
Install Interior Rack, Support Steel																													Bolting, handrail, grating, moment welds					
Install STG Misc. Pipe Rack Foundations/Heat Exchangers/Pump Skids																																		
Install equipment/ Housekeeping pads inside building																																		
Install STG Pipe Rack Steel/Grating, Handrail																																		
Rough Set Equipment Inside ST Building																																		
Dresser Rand continue ST, STG																													Demob until final alignment					
Erect STG Enclosure Building/Open Penetrations, Install ladders, Roof, Walkways																													Summit install Fire Protection, install ladders & walkways Final trim out, install roof panels after equipment set					
Granite Continue Backfill, and Grading																																		
<b>HRSG Area</b>																																		
Install HRSG Large Bore Supports																																		
Install BOP Pipe & Supports North/South Pipe Rack																													Continue pending receipt of customer supplied pipe					
HRSG Hydro																																		
Install Cable Tray, Lighting/Pull Cable																																		
<b>East Area</b>																																		
Trench, install Conduit & Cable for Security Gate SE corner.																																		
Install UG Drains for Fuel Gas compressor to OWS/Backfill																																		
Form, Rebar, Pour Fuel Gas Compressor foundation																													After HRSG Hydro					
<b>West Area</b>																																		
PDC #1 Support & Cable Tray/Pull Cable/Terminations																													Continue Terminations					
PDC #2 Support & Cable Tray/Misc. Electrical/Cable Pulls/ Terminations																													Continue Terminations					
Receive Aux. Boiler Steel, Shake out, Preassemble, Install																																		
Set Aux. Boiler and Assemble																																		
Trench, Install Street light Foundation, Conduit, Grounding																																		
Granite Continue, Backfill, Grading																													Working Backfill, Grading under Pipe Rack					
<b>Water Treatment Building</b>																																		
Install LB, SB Pipe																																		

Description	Week Date Day	September										September										October						COMMENTS		
		LAST WEEK					FIRST WEEK					SECOND WEEK					THIRD WEEK													
		19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S			
Rough Set Equipment																														Continue after Building and Mezzanine deck erection
Excavate, Form, Rebar, Pour Chem. Feed & Cooling area Foundation South Side																														Chemical area Foundation to start
Excavate, Form, Rebar, Pour Raw Water Treatment (Clarifier) Foundation																														
Install Clarifiers																														
Continue Electrical Equipment, Cable tray, Conduit																														
Erect Building, Mezzanine Deck, Fire Protection ( Agate)																														
<b>Cooling Tower Area</b>																														
Install Circ Water Pipe at Cooling Tower/ install Valves																														Waiting on 54" Valve delivery
Granite Continue Backfill and Grading																														Around fence line and fire wall
<b>CTG Area</b>																														
CTG																														
Erect Generator Enclosure																														Finish after pipe, instrumentation, electrical installation
Erect CT Enclosure																														Roof being left open for pipe, instrumentation, electrical installation
Install Misc.Piping/Supports																														
CTG Misc.Electrical/ Conduit, Pull Cable																														
Install Air Intake Steel/Filter House																														Install Filter Media at Later Date
<b>North Area</b>																														
Install ISO Phase, Weld splices																														Waiting on Welder to start 9/19

Exhibit 6

Compliance Matrix

**LODI ENERGY CENTER CONSTRUCTION COMPLIANCE MATRIX  
BASED ON CEC FINAL DECISION**

Construction	Commissioning	Operations	To CEC or Agency	Approved by CEC
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Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Date sent to CEC, CBO or agency	NCPA Log #	CEC Status
AQ-002	CONS	The ATC serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c).	No verification necessary.	None	Complete			
AQ-003	CONS	The facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4.	Submit the Title V Operating Permit application to both the District and CPM.	Prior to operation	5/13/12			
AQ-007	COMM	Particulate matter emissions from the gas turbine system shall not exceed 0.1 grains/dscf in concentration	Submit the results of source tests to both the District and CPM in accordance with AQ-46.	Within 60 days after testing	7/1/12			
AQ-008	COMM	No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity.	Make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	As required	As required			
AQ-009	COMM	APCO or an authorized representative shall be allowed to inspect the required monitoring devices to ensure that such devices are functioning properly.	Make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	As required	As required			
AQ-010	COMM	Commissioning activities are defined as, but not limited to, all testing, adjustment, tuning, and calibration activities recommended by the equipment manufacturers and the construction contractor to ensure safe and reliable steady state operation of the gas turbine and associated electrical delivery systems.	No verification necessary.	None	None			
AQ-011	COMM	Commissioning period shall commence when all mechanical, electrical, and control systems are installed and individual system startup has been completed, or when a gas turbine is first fired, <u>whichever occurs first</u> . <i>The commissioning period shall terminate when the plant has completed initial source testing, completed final plant tuning, and is available for commercial operation.</i>	Submit a commissioning plan to the CPM and APCO for approval that describes the procedures to be followed during the commissioning period and the anticipated duration of each commissioning activity.	30 days prior to first fire of the gas turbine	3/2/12			
AQ-012	COMM	During the commissioning period, emission rates from the gas turbine system shall not exceed any of the following limits: NOx (as NO2) - 400.00 lb/hr and 4,000 lb/day; VOC (as CH4) - 16.00 lb/hr and 192.0 lb/day; CO - 2,000 lb/hr and 20,000 lb/day; PM10 - 9.00 lb/hr and 108.0 lb/day; or SOx (as SO2) - 6.10 lb/hr and 73.1 lb/day.	A summary of significant operation and maintenance events and monitoring records required shall be included in the QOR (QOR) required by AQ-SC8.	30 days after end of quarter	7/30/12			
AQ-013	COMM	During commissioning period, NOx and CO emission rate shall be monitored using installed and calibrated CEMS.	Submit to the CPM and APCO for approval the commissioning plan as required in AQ-11.	30 days prior to first fire of the gas turbine	3/2/12			
AQ-014	COMM	Total mass emissions of NOx, VOC, CO, PM10 and SOx that are emitted during the commissioning period shall accrue towards the quarterly emission limits.	A summary of significant operation and maintenance events and monitoring records required shall be included in the QOR as required by AQSC-08.	30 days after end of quarter	7/30/12			
AQ-015	COMM	During commissioning period, the owner or operator shall keep records of the natural gas fuel combusted in the gas turbine system on hourly and daily basis.	A summary of significant operation and maintenance events and monitoring records required shall be included in the QOR as required by AQSC-08.	30 days after end of quarter	7/30/12			

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Date sent to CEC, CBO or agency	NCPA Log #	CEC Status
AQ-018	COMM	Maintain records of the date, start-up time, downtime for gas turbine and the steam turbine prior to startup, startup type, minute-by-minute turbine load (MW), and NOx and CO concentrations (ppmvd @ 15% O2) measurement using CEMS, for each startup event in the first 12 months of operation following the end of the commissioning period.	Make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	As required	As required			
AQ-023	COMM	The District shall administratively add the minimum temperature limitation established pursuant to the above condition in the final Permit to Operate.	Make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	As required	As required			
AQ-024	CONS	The SCR system shall be equipped with a continuous temperature monitoring system to measure and record the temperature at the catalyst face.	Make the site available for inspection by representatives of the District, ARB, and the Commission upon request.	SCR install	As required			
AQ-026	COMM	Start-up is defined as the period of time during which a unit is brought from a shutdown status to its operating temperature and pressure, including the time required by the unit's emission control system to reach full operation.	No verification necessary.	None	None			
AQ-027	COMM	Shutdown is defined as the period of time during which a unit is taken from an operational to a non-operational status ending when the fuel supply to the unit is completely turned off. [District Rule 4703, 3.26]	No verification necessary.	None	None			
AQ-031	COMM	Each 3-hour rolling average period will be compiled from the three most recent one hour periods. Each one hour period shall commence on the hour. Each one hour period in a twenty-four hour average for ammonia slip will commence on the hour. The twenty-four hour average will be calculated using the most recent twenty-four one-hour periods.	No verification necessary.	None	None			
AQ-042	COMM	A SCR system and an oxidation catalyst shall serve the gas turbine system.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-043	CONS	The gas turbine engine and generator lube oil vents shall be equipped with mist eliminators or equivalent technology sufficient to limit the visible emissions from the lube oil vents to not exceed 5% opacity, except for a period not exceeding three minutes in any one hour.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-044a	COMM	Source testing shall be conducted using the methods and procedures approved by the District.	Submit the proposed source test plan or protocol for the source tests to both the District and CPM for approval.	15 days prior to proposed source test date	6/15/12			
AQ-044b	COMM	Source testing shall be conducted using the methods and procedures approved by the District.	Notify the District and CPM of the proposed source test date and time.	30 days prior to the proposed source test date and time	5/2/12			
AQ-044c	COMM	Source testing shall be conducted using the methods and procedures approved by the District.	Submit source test results to the CEC CPM and District.	No later than 60 days following the source test	7/31/12			

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Date sent to CEC, CBO or agency	NCPA Log #	CEC Status
AQ-045	COMM	Source testing shall be witnessed or authorized by District personnel and samples shall be collected by a California Air Resources Board (CARB) certified testing laboratory or a CARB certified source testing firm.	Submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-44.	15 days prior to proposed source test date	5/17/12			
AQ-046a	COMM	Source testing to measure start-up emission rates of NOx, CO and VOC shall be conducted before the end of commissioning period and at least once every seven years thereafter. CEM relative accuracy for NOx and CO shall be determined during startup and shutdown source testing in accordance with 40 CFR 60, Appendix F (Relative Accuracy Audit). If CEM data is not certifiable to determine compliance with NOx and CO startup emission limits, then startup and shutdown NOx and CO testing shall be conducted every 12 months.	Submit results and field data collected during source tests to the District and CPM.	Within 60 days of testing	7/31/12			
AQ-046b	COMM	Testing for startup and shutdown emissions shall be conducted upon initial operation and at least once every seven years.	Submit source test results to the CEC CPM and District.	Upon initial operation and at least once every 7 years	6/12/12			
AQ-047a	COMM	Source testing to determine compliance with the NOx, CO, VOC, and NH3 emission rates (lb/hr and ppmvd @ 15% O2) and PM10 emission rate (lb/hr) shall be conducted before the end of commissioning period and at least once every 12 months thereafter.	Submit results and field data collected during source tests to the District and CPM according to a pre-approved protocol (AQ-44). Testing for steady-state emissions shall be conducted upon initial operation and at least once every 12 months.	Within 60 days of testing	7/31/12			
AQ-047b	COMM	Testing for steady state emissions shall be conducted upon initial operation .	Submit source test results to the CEC CPM and District.	Upon initial operation	7/31/12			
AQ-048	COMM	The sulfur content of each fuel source shall be: (i) documented in a valid purchase contract, a supplier certification, a tariff sheet or transportation contract, or (ii) monitored within 60 days after the end of commissioning period and weekly thereafter. If the sulfur content is less than or equal to 1.0 gr/100 dscf for eight consecutive weeks, then the monitoring frequency shall be every six months. If the result of any six month monitoring demonstrates that the fuel does not meet the fuel sulfur content limit, weekly monitoring shall resume until compliance is demonstrated for eight consecutive weeks.	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 QOR.	30 days after end of quarter	10/1/12			
AQ-049	COMM	The following test methods shall be used: NOx - EPA Method 7E or 20 or CARB Method 100; CO - EPA Method 10 or 10B or CARB Method 100; VOC - EPA Method 18 or 25; PM10 - EPA Method 5 (front half and back half) or 201 and 202a; ammonia - BAAQMD ST-1B; and O2 - EPA Method 3, 3A, or 20 or CARB Method 100. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit.	Submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-44.	15 days prior to proposed source test date	5/17/12			
AQ-051	COMM	The results of each source test shall be submitted to the District within 60 days thereafter.	Submit the source test report of results to both the CEC and District.	Within 60 days of testing	5/17/12			

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Date sent to CEC, CBO or agency	NCPA Log #	CEC Status
AQ-052	CONS	A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the unit shall be installed, utilized and maintained.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-053	COMM	The owner or operator shall install, certify, maintain, operate, and quality-assure a CEMS which continuously measures and records the exhaust gas NOx, CO, and O2 concentrations. CEMS shall monitor emissions during all types of operation, including during startup and shutdown periods, provided the CEMS passes the relative accuracy requirement for startups and shutdowns specified herein. If relative accuracy of CEMS cannot be demonstrated during startup conditions, CEMS results during startup and shutdown events shall be replaced with startup emission rates obtained from source testing to determine compliance with emission limits contained in this document.	The project owner shall make the site available for inspection by representatives of the District, ARB and the Commission to verify the continuous monitoring system is properly installed and operational.	As required	As required			
AQ-060	COMM	Upon written notice from the District, the owner or operator shall provide a summary of the data obtained from the CEMS. This summary shall be in the form and the manner prescribed by the District.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-061	CONS	The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEMS data polling software system and shall make CEMS data available to the District's automated polling system on a daily basis. Upon notice by the District that the facility's CEMS is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEMS data is sent to the District by a District-approved alternative method.	Provide a CEMS protocol for approval by the APCO and CPM. The project owner shall make the site available for inspection by representatives of the District, ARB and the Commission upon request.	at least 60 days prior to installation of the CEMS	2/1/12		9/14/11 2011-017	Pending CEC Approval
AQ-063	CONS	The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O2 analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-064	COMM	Monitor Downtime is defined as any unit operating hour in which the data for NOx, CO2 or O2 concentrations is either missing or invalid.	No verification necessary.	None	None			
AQ-067	COMM	The owner or operator shall maintain all records of required monitoring data and support information for a period of five years from the date of data entry and shall make such records available to the District upon request.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Date sent to CEC, CBO or agency	NCPA Log #	CEC Status
AQ-070	COMM	[CONDITIONS AQ-70 through 79 relate to Facility Wide Offsets] Prior to operating under ATCs N-2697-5-0 and N-2697-7-0, the permittee shall mitigate the following quantities of NOx: Q1: 38,348 lb, Q2: 38,721 lb, Q3: 37,436 lb, and Q4: 38,150 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 9/21/06).	Submit to both the District and CPM records showing that the project's offset requirements have been met.	Prior to initiating operation	Complete	4/9/10	2010-010	Approved 6/29/10
AQ-071	COMM	NOx ERCs S-2857-2, S-2848-2, S-2849-2, S-2850-2, S-2851-2, S-2852-2, S-2854-2, S-2855-2, C-915-2, C-916-2, C-914-2, N-755-2, N-754-2, S-2894-2 and S-2895-2 (or a certificate split from any of these certificates) shall be used to supply the required NOx offsets, unless a revised offsetting proposal is received and approved by the District.	Submit to both the District and CPM records showing that the project's offset requirements have been met.	Prior to initiating operation	Complete	4/9/10	2010-010	Approved 6/29/10
AQ-072	COMM	Prior to operating under ATCs N-2697-5-0 and N-2697-7-0, the permittee shall mitigate the following quantities of VOC: 1st quarter: 8,240 lb, 2nd quarter: 8,331 lb, 3rd quarter: 8,571 lb, and 4th quarter: 8,477 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201.	Submit to both the District and CPM records showing that the project's offset requirements have been met.	Prior to initiating operation	4/1/12			
AQ-073	COMM	VOC ERC S-2860-1, and NOx ERCs S-2857-2, S-2848-2, S-2849-2, S-2850-2, S-2851-2, S-2852-2, S-2854-2, S-2855-2, C-915-2, C-916-2, C-914-2, N-755-2, N-754-2, S-2894-2 and S-2895-2 (or a certificate split from any of these certificates) shall be used to supply the required VOC offsets, unless a revised offsetting proposal is received and approved by the District.	Submit to both the District and CPM records showing that the project's offset requirements have been met.	Prior to initiating operation	Complete	4/9/10	2010-010	Approved 6/29/10
AQ-074	COMM	The District has authorized to use NOx reductions to overcome shortfall in the amount of VOC offsets at NOx/VOC interpollutant offset ratio of 1.00.	No verification necessary.	None	None			
AQ-075	COMM	Prior to operating under ATCs N-2697-5-0 and N-2697-7-0, the permittee shall mitigate the following quantities of SOx: 1st quarter: 2,668 lb, 2nd quarter: 2,668 lb, 3rd quarter: 2,668 lb, and 4th quarter: 2,668 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 9/21/06).	Submit to both the District and CPM records showing that the project's offset requirements have been met.	Prior to initiating operation	4/1/12			
AQ-076	COMM	SOx ERCs S-2843-5, S-2845-5, S-2858-5, N-759-5, N-758-5, S-2846-5 and N-757-5 (or a certificate split from any of these certificates) shall be used to supply the required SOx offsets, unless a revised offsetting proposal is received and approved by the District.	Submit to both the District and CPM records showing that the project's offset requirements have been met.	Prior to initiating operation	Complete	4/9/10	2010-010	Approved 6/29/10
AQ-077	COMM	Prior to operating under ATCs N-2697-5-0, N-2697-6-0 and N-2697-7-0, the permittee shall mitigate the following quantities of PM10: 1Q: 19,112 lb, 2Q: 19,112 lb, 3Q: 19,112 lb, and 4Q: 19,112 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 9/21/06).	Submit to both the District and CPM records showing that the project's offset requirements have been met.	Prior to initiating operation	3/2/12			

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Date sent to CEC, CBO or agency	NCPA Log #	CEC Status
AQ-078	COMM	PM10 ERCs S-2844-4, C-911-4, N-756-4, C-913-4, C-912-4, and SOx ERCs S-2843-5, S-2845-5, S-2858-5, N-759-5, N-758-5, S-2846-5 and N-757-5 (or a certificate split from any of these certificates) shall be used to supply the required PM10 offsets, unless a revised offsetting proposal is received and approved by the District.	Submit to both the District and CPM records showing that the project's offset requirements have been met.	Prior to initiating operation	Complete	4/9/10	2010-010	Approved 6/29/10
AQ-079	COMM	The District has authorized to use SOx reductions to overcome shortfall in the amount of PM10 offsets at SOx/PM10 interpollutant offset ratio of 1.00.	No verification necessary.	None	None			
AQ-080	CONS	<b>[CONDITIONS AQ-80 through 89 relate to Facility Wide Dust Control]</b> Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 or Rule 8011.	A summary of significant construction activities and monitoring records required shall be included in the construction monthly report required by AQ-SC3.	Monthly	Include in MCR	Ongoing during construction		
AQ-081b	CONS	A summary of significant construction activities and monitoring records required shall be included in the construction monthly compliance report required by AQSC-3.	Submit the required information to the CEC as part of the MCR.	Monthly	Include in MCR	Ongoing during construction		
AQ-082	CONS	An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 or Rule 8011.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required	Ongoing during construction		
AQ-083	CONS	Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 or Rule 8011.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required	Ongoing during construction		
AQ-084	CONS	Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 or Rule 8011.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required	Ongoing during construction		
AQ-085	CONS	Water, gravel, roadmix, or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District-approved control measure shall be applied to unpaved vehicle travel areas as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in Section 3.59 of District Rule 8011.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required	Ongoing during construction		
AQ-086	CONS	Where dusting materials are allowed to accumulate on paved surfaces, the accumulation shall be removed daily or water and/or chemical/organic dust stabilizers/suppressants shall be applied to the paved surface as required to maintain continuous compliance with the requirements for a stabilized unpaved road as defined in Section 3.59 of District Rule 8011 and limit Visible Dust Emissions (VDE) to 20% opacity.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required	Ongoing during construction		

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AQ-087	CONS	On each day that 50 or more Vehicle Daily Trips or 25 or more Vehicle Daily Trips with three axles or more will occur on an unpaved vehicle/equipment traffic area, permittee shall apply water, gravel, roadmix, or chemical/ organic dust stabilizers/suppressants, vegetative materials, or other District-approved control measure as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in Section 3.59 of District Rule 8011.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required	Ongoing during construction		
AQ-088	CONS	Whenever any portion of the site becomes inactive, Permittee shall restrict access and periodically stabilize any disturbed surface to comply with the conditions for a stabilized surface as defined in Section 3.58 of District Rule 8011.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required	Ongoing during construction		
AQ-090	COMM	<b>[CONDITIONS AQ-90 through 103 relate to the Acid Rain Program]</b> The owners and operators of each affected source and each affected unit at the source shall have an Acid Rain permit and operate in compliance with all permit requirements. [40 CFR 72]	Submit the Acid Rain Program application to both the District and the CPM.	Prior to first fire	6/30/12	5/6/09		
AQ-091	COMM	The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR Part 75.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-092	COMM	The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain program.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-093	COMM	The owners and operators of each source and each affected unit at the source shall: (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-094	COMM	Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.	No verification necessary.	None	None			
AQ-095	COMM	Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-096	COMM	An allowance shall not be deducted in order to comply with the requirements under 40 CFR part 73, prior to the calendar year for which the allowance was allocated.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			

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AQ-097	COMM	An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.	No verification necessary.	None	None			
AQ-098	COMM	An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.	No verification necessary.	None	None			
AQ-100	COMM	The owners and operators of an affected unit that has excess emissions in any calendar year shall: (i) Pay without demand the penalty required, and pay up on demand the interest on that penalty; and (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-101	COMM	The owners and operators of the each affected unit at the source shall keep on site the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority: (i) The certificate of representation for the designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site beyond such five-year period until such documents are superceded because of the submission of a new certificate of representation changing the designated representative.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-102	COMM	The owners and operators of each affected unit at the source shall keep on site each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority; (ii) All emissions monitoring information, in accordance with 40 CFR part 75; (iii) Copies of all reports, compliance certifications and other submissions and all records made or required under the Acid Rain Program; (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission that demonstrates compliance with the requirements of the Acid Rain Program.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-103	COMM	The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR 75 Subpart I.	Submit the Acid Rain Program Application to both the District and CPM.	Prior to first fire	6/30/12	5/6/09		
AQ-105	---	This ATC serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c).	No verification necessary.	None	None			

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AQ-106	CONS	Prior to operating with modifications authorized by this ATC, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4.	Submit to both the District and CPM the Title V Operating Permit application prior to operation.	Prior to operation	5/13/12			
AQ-107	COMM	No air contaminant shall be released into the atmosphere which causes a public nuisance.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-110	COMM	No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-112	COMM	No hexavalent chromium containing compounds shall be added to cooling tower circulating water.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-116	COMM	Compliance with PM10 emission limit shall be determined by blowdown water sample analysis by independent laboratory within 60 days after the end of commissioning period of the gas turbine system and at least once quarterly thereafter.	Use the results of water recirculation rate and total dissolved solids concentration analysis data to determine emissions (lb/day and grains/dscf) and the results shall be included in the quarterly operation report (AQ-SC8).	30 days after end of quarter	10/1/12			
AQ-118	CONS	This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c).	No verification necessary.	None	Complete			
AQ-119	COMM	Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4.	Submit to both the District and CPM the Title V Operating Permit application	Prior to operation	4/1/12			
AQ-120	COMM	All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-121	COMM	No air contaminant shall be released into the atmosphere which causes a public nuisance.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-122	COMM	No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-125	COMM	A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the unit shall be installed, utilized and maintained.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-126	COMM	The total mass emissions of NOx, VOC, CO, PM10 and SOx that are emitted during the commissioning period shall accrue towards the quarterly emission limits.	A summary of significant operation and maintenance events and monitoring records required shall be included in the QOR.	30 days after end of quarter	10/1/12			

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AQ-141	COMM	All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306.	Submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-44.	15 days prior to proposed source test date	5/17/12			
AQ-142	COMM	Source testing to measure NOx and CO emissions from this unit while fired on natural gas shall be conducted within 60 days of the end of commissioning period of the gas turbine system.	Submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-44.	Within 30 days of testing	7/30/12			
AQ-144	COMM	The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance.	Submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-44.	15 days prior to proposed source test date	5/17/12			
AQ-145	COMM	Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing.	Submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-44.	15 days prior to proposed source test date	5/17/12			
AQ-146	COMM	NOx emissions for source test purposes shall be determined using EPA Method 7E or CARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis.	Submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-44.	15 days prior to proposed source test date	5/20/12			
AQ-147	COMM	CO emissions for source test purposes shall be determined using EPA Method 10 or CARB Method 100.	Submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-44.	15 days prior to proposed source test date	5/20/12			
AQ-148	COMM	Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or CARB Method 100.	Submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-44.	15 days prior to proposed source test date	5/20/12			
AQ-149	COMM	For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit.	Submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-44.	15 days prior to proposed source test date	5/20/12			
AQ-150	COMM	The results of each source test shall be submitted to the District within 60 days thereafter.	Submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-44.	15 days prior to proposed source test date	5/20/12			
AQ-159	COMM	All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request.	Make the site available for inspection by representatives of the District, ARB, and the CEC upon request.	As required	As required			
AQ-SC03	CONS	The AQCMM shall submit documentation to the CPM in each MCR that demonstrates compliance with items (a) through (m) 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.	Include a summary of all actions taken to maintain compliance with this condition, copies of any complaints filed with the Air District in relation to project construction, and any other documentation deemed necessary by the CPM and AQCMM to verify compliance with this condition.	Monthly	Include in MCR	Ongoing during construction		

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AQ-SC04	CONS	The AQCMM 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 project owner indicate that existing mitigation measures are not providing effective mitigation. The AQCMM shall implement Steps 1-3 in the Condition in the event such visible dust plumes are observed.	AQCMM shall prepare for the MCR: (1) a summary of all actions taken to maintain compliance with this condition; (2) copies of any complaints filed with the air district in relation to project construction; and (3) any other documentation deemed necessary by the CPM and AQCMM to verify compliance with this condition.	Monthly	Include in MCR	Ongoing during construction		
AQ-SC05	CONS	The AQCMM shall submit to the CPM in the MCR a construction mitigation report that demonstrates compliance with the measures (A-F) set forth in the Condition for purposes of controlling diesel construction-related emissions. Any deviation from the following 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.	Monthly	Include in MCR	Ongoing during construction		
AQ-SC06	CONS	Submit to the CPM for review and approval any modification proposed by the project owner to any project air permit. The project owner shall submit to the CPM any modification to any permit proposed by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, for the project.	Submit any proposed air permit modification to the CPM either by: 1) the project owner to an agency, or 2) receipt of proposed modifications from an agency.	Submit modifications within 5 working days of its submittal and submit modified air permits within 15 days of receipt	As required			
BIO-02	CONS	Ensure that the DB performs the activities outlined in BIO-2 during site (or related facilities) mobilization, ground disturbance, grading, construction, operation, and closure.	Designated Biologist must maintain written records of the tasks described in condition and provide summaries for inclusion in the MCR.	Monthly	Include in MCR	Ongoing during construction		
BIO-04	CONS	Construction/Operation Manager shall act on the advice of the DB to ensure conformance with the biological resources Conditions of Certification. If required by the DB, Construction/ Operation Manager shall halt all site mobilization, ground disturbance, grading, construction, and operation activities in areas specified by the DB.	Designated Biologist must notify the CPM immediately of any non-compliance activity or halt of any site mobilization, ground disturbance, grading, construction, and ops activities.	Immediately following non-compliance or construction halt	As required	Ongoing during construction		
BIO-05b	CONS	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.	Include a running total in MCR.	Monthly	Include in MCR	Ongoing during construction		
BIO-06c	CONS	Any changes to the approved BRMIMP must also be approved by the CPM and submitted to the HTAC to ensure no conflicts exist.	Notify the CPM before implementing any modifications to the approved BRMIMP	Within 5 days	As required			
BIO-06d	CONS	Implementation of BRMIMP measures will be reported in the MCR by the DB.	Provide report for inclusion in MCR.	Monthly	Include in MCR	Ongoing during construction		

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BIO-06e	CONS	Prepare 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.	Provide construction closure report to the CPM for review and approval.	Within 30 days after completion of construction	5/31/12			
BIO-07a	CONS	Any time the project owner modifies or finalizes the project design they shall incorporate all feasible measures that avoid or minimize impacts to the local biological resources, including Items 1-9 as listed in the Condition.	Provide report for inclusion in MCR.	Monthly	Include in MCR	Ongoing during construction		
BIO-07b	CONS	Submit a written construction termination report identifying how bio mitigation measures have been completed.	Provide construction termination report to the CPM for review and approval.	Within 30 days after completion of construction	5/31/12			
BIO-08a	CONS	Implement measures set forth in condition (Items 1-8) in a manner to avoid or minimize impacts to the local biological resources.	Provide report for inclusion in MCR.	Monthly	Include in MCR	Ongoing during construction		
BIO-08b	CONS	Submit a written construction termination report identifying how bio mitigation measures have been completed.	Provide construction termination report to the CPM for review and approval.	Within 30 days after completion of construction	5/31/12			
BIO-09c	CONS	Discuss implementation of GGS mitigation and avoidance measures.	Provide report for inclusion in MCR.	Monthly	Include in MCR	Ongoing during construction		
BIO-10c	CONS	Discuss implementation of burrowing owl mitigation and avoidance measures.	Provide report for inclusion in MCR.	Monthly	Include in MCR	Ongoing during construction		
BIO-11c	CONS	Discuss implementation of Swainson's hawk mitigation and avoidance measures.	Provide report for inclusion in MCR.	Monthly	Include in MCR	Ongoing during construction		
BIO-12b	CONS	Discuss implementation of migratory bird mitigation and avoidance measures.	Provide report for inclusion in MCR.	Monthly	Include in MCR	Ongoing during construction		
BIO-13b	CONS	Discuss implementation of pond turtle mitigation and avoidance measures.	Provide report for inclusion in MCR.	Monthly	Include in MCR	Ongoing during construction		
CIVIL-01e	CONS	Submit written statement certifying that the documents required by CIVIL-01(a-d) have been approved by the CBO.	Include written certification in next monthly compliance report.	Monthly	Include in MCR	Ongoing during construction		
CIVIL-02	CONS	The RE shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible soils engineer, geotechnical engineer, or the civil engineer experienced and knowledgeable in the practice of soils engineering identifies unforeseen adverse soil or geologic conditions. The project owner shall submit modified plans, specifications, and calculations to the CBO based on these new conditions. The project owner shall obtain approval from the CBO before resuming earthwork and construction in the affected area.	Notify the CPM within 24 hours when earthwork and construction are stopped as a result of unforeseen adverse geological 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.	Within 24 hours of construction halt due to geologic conditions	As required	Ongoing during construction		

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CIVIL-03a	CONS	Perform inspections in accordance with the 2007 CBC. All plant site grading operations for which a grading permit is required shall be subject to inspection by the CBO. If, in the course of inspection, it is discovered that the work is not being performed in accordance with the approved plans, the discrepancies shall be reported immediately to the resident engineer, the CBO, and the CPM.	The RE shall transport to the CBO and CPM a NCR and the proposed corrective action for review and approval. Within 5 days of resolution, EPC must submit details of correction action to the CBO and CPM.	Within 5 days of discovery of any discrepancies	As required	Ongoing during construction		
CIVIL-03b	CONS	A list of NCRs for the reporting month shall also be included in the following monthly compliance report.	Include in the MCR.	Monthly	Include in MCR	Ongoing during construction		
CIVIL-04	CONS	After completion of finished grading and the erosion and sedimentation control and drainage work, the project owner shall obtain the CBO's approval of the final grading plans (including final changes) for the erosion and sedimentation control work. The civil engineer shall state that the work within his/her area of responsibility was done in accordance with the final approved plans.	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 final approved plans. The project owner shall submit a copy of the CBO's approval to the CPM in the next MCR.	Within 30 days of completion of work	7/1/12			
COM-01	CONS	The CPM, responsible Energy Commission staff, and delegated agencies or consultants shall be guaranteed and granted unrestricted access to the power plant site, related facilities, project-related staff, and the records maintained onsite, for the purpose of conducting audits, surveys, inspections, or general site visits.	Although the CPM will normally schedule site visits on dates and times agreeable to the project owner, the CPM reserves the right to make unannounced visits at any time.	As required	As required	Ongoing during construction		
COM-02	CONS	Maintain maintain project files on-site or at an alternative site approved by the CPM for the life of the project, unless a lesser period of time is specified by the Conditions of Certification. The files shall contain copies of all "as-built" drawings, documents submitted as verification for Conditions, and other project-related documents.	CEC staff and delegate agencies shall, upon request to the project owner, be given unrestricted access to the files maintained pursuant to this condition.	Ongoing	Ongoing	Ongoing during construction		
COM-05	CONS	Submit a construction matrix that provides the current status of all conditions in a spreadsheet format.	Submit a compliance matrix with each MCR and also in ACR	Monthly	Include in MCR	Ongoing during construction		
COM-06	CONS	The first MCR shall include the AFC number and an initial list of dates for each of the events identified on the Key Events List. During construction of the project, the project owner or authorized agent shall submit an original and an electronic searchable version of the within 10 working days after the end of each reporting month. MCRs shall be clearly identified for the month being reported. The reports shall contain, at a minimum the items specified in the condition.	Submit to CPM on a monthly basis	Monthly	Complete			

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COM-08	CONS	Any information that the project owner deems confidential shall be submitted to the Energy Commission's Executive Director with an application for confidentiality pursuant to Title 20, California Code of Regulations, section 2505(a). Any information that is determined to be confidential shall be kept confidential as provided for in Title 20, California Code of Regulations, section 2501 et. seq.	Any info the project owner deems confidential shall be submitted to the Docket Unit with an application for confidentiality.	As required	As required	Ongoing during construction		
COM-09	CONS	Annual Energy Facility Compliance Fee: The project owner is required to pay an annual compliance fee, which is adjusted annually. Current Compliance fee information is available on the CEC's website.	Submit annual compliance fee to CEC.	Annually	7/15/12	Ongoing		
COM-10	CONS	Report and provide copies to the CPM of all complaint forms, including noise and lighting complaints, notices of violation, notices of fines, official warnings, and citations. Complaints shall be logged and numbered. Noise complaints shall be recorded on the form provided in the NOISE Conditions of Certification. All other complaints shall be recorded on the complaint form (Attachment A).	Provide documentation to the CPM as required.	Within 10 days of receipt	As required	Ongoing during construction		
COM-12a	CONS	Prepare an Unplanned Temporary Facility Closure/On-Site Contingency Plan (see condition for issues that must be addressed in the plan). The approved plan must be in place prior to commercial operation of the facility and shall be kept at the site at all times.	Submit an on-site contingency plan for CPM review and approval.	no less than 60 days prior to COD	4/13/12			
COM-12b	CONS	In the event of an unplanned temporary 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. The project owner shall keep the CPM informed of the circumstances and expected duration of the closure.	Notify the CPM and other agencies as required.	Within 24 hours of unplanned temporary closure	As required			
COM-12c	CONS	If the CPM determines that an unplanned temporary closure is likely to be permanent, or for a duration of more than 12 months, a closure plan consistent with the requirements for a planned closure shall be developed and submitted to the CPM.	Develop and submit the closure plan to the CPM.	Within 90 days of CPM's determination	As required			
COM-13a	CONS	The on-site contingency plan required for unplanned temporary closure shall also cover unplanned permanent facility closure. All of the requirements specified for unplanned temporary closure shall also apply to unplanned permanent closure. In addition, the on-site contingency plan shall address how the project owner will ensure that all required closure steps will be successfully undertaken in the event of abandonment.	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 and shall take all necessary steps to implement the on-site contingency plan. The project owner shall keep the CPM informed of the status of all closure activities.	Within 24 hours of unplanned permanent closure	As required			
COM-13b	CONS	Prepare a closure plan, consistent with the requirements for a planned closure.	Submit the closure plan to the CPM.	Within 90 days of permanent closure	As required			
COM-14	CONS	Post-Certification Changes to the Decision--see Condition for detailed information on what constitutes and how to prepare a post-licensing change to the CEC Final Decision.	As required	As required	As required			

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Date sent to CEC, CBO or agency	NCPA Log #	CEC Status
CUL-02b	CONS	Provide to the CRS and CPM a schedule of project activities for the following week, including the identification of area(s) where ground disturbance will occur during that week.	Provide requested info to the CPM and CRS.	Weekly during construction	Weekly	Ongoing during construction		
CUL-04a	CONS	If any archaeological monitoring or data recovery activities are conducted during project construction, submit a final Cultural Resources Report (CRR) which addresses the items specified in the condition.	Provide the required written documentation to the CPM for review and approval.	Within 90 days after completion of ground disturbance	9/28/12			
CUL-04b	CONS	If cultural materials requiring curation were collected, provide to the CPM a copy of an agreement or other written commitment form.	Provide the required written documentation to the CPM.	Within 90 days after completion of ground disturbance	9/28/12			
CUL-04c	CONS	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 project-related reports.	Provide the required written documentation to the CPM.	Within 10 days after CPM approval of CRR	10/28/12			
CUL-04d	CONS	If the project is suspended, submit a draft CRR to the CPM for review and approval.	Provide the required written documentation to the CPM for review and approval.	Within 30 days after requesting a suspension	As required			
CUL-05c	CONS	Provide the WEAP Training Acknowledgement 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.	Include a running total in MCR.	Monthly	Include in MCR	Ongoing during construction		
CUL-06a	CONS	Based on the findings of the geoarchaeological study, no archaeological monitoring is required unless WEAP-trained construction workers identify cultural resources materials during excavations. In that event, To ensure there are no impacts to unknown buried archaeological resources, construction shall cease in the vicinity of the discovery, the CRS shall be notified, and CUL-7 shall apply.	During monitoring, provide daily feedback to CPM on status of monitoring activities via email.	Daily logs emailed to CPM	As required	Ongoing during construction		
CUL-06b	CONS	Submit a monthly summary report of cultural resources-related monitoring prepared by the CRS.	Provide report for inclusion in MCR.	Monthly	Include in MCR	Ongoing during construction		
CUL-06c	CONS	Notify CEC prior to changing or eliminating monitoring.	Provide letter or email to CPM for review and approval detailing justification for changing or eliminating monitoring.	At least 24 hours prior to changing level	As required			
CUL-06d	CONS	A Native American monitor shall be obtained to monitor ground disturbance in areas and at depths, if any, where the CUL-1 geoarchaeological study identified the potential for buried prehistoric archaeological deposits and anywhere else that if Native American artifacts are encountered during ground disturbance.	Provide the required written documentation to the CPM.	No later than 30 days after discovery	As required			
CUL-06e	CONS	Submit any comments or information provided by Native Americans in response to the project owner's transmittals of information.	Provide the required written documentation to the CPM.	Within 15 days of receipt	As required			

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CUL-7	CONS	Grant authority to halt construction to the CRS, alternate CRS and the CRMs in the event previously unknown cultural resource sites or materials are encountered, or if known resources may be impacted in a previously unanticipated manner (discovery).	Provide the CPM and CRS with a letter confirming that the CRS, alternate CRS and CRMs have the authority to halt construction activities in the vicinity of a cultural resource 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.	At least 30 days prior to ground disturbance	Complete	8/4/10	2010-062	Approved by CEC 8/18/11
ELEC-01a	CONS	Prior to the start of any increment of electrical construction for electrical equipment and systems 480 volts and higher, with the exception of underground duct work and any physical layout drawings and drawings not related to code compliance and life safety, submit for CBO design review and approval the proposed final design, specifications and calculations.	Submit to the CBO for design review and approval the items listed in this condition (see page 59 of Final Decision)	At least 30 days prior to start of construction of each increment of electrical construction	7/16/10	Ongoing during construction		Info is included in MCRs
ELEC-01b	CONS	Send the CPM a copy of the transmittal letter in the next MCR.	Include the required documentation in the MCR.	Monthly	Include in MCR	Ongoing during construction		
GEN-01a	CONS	Design, construct and inspect the project in accordance with the 2007 CBC et al and all other applicable engineering LORS in effect at the time initial design plans are submitted to the CBO for review and approval. The CBCS in effect is the edition that has been adopted by the California Building Standards Commission and published at least 180 days previously.	Submit to the CEC CPM a statement of verification signed by responsible design engineer attesting that all design, construction, installation and inspection requirements of the applicable LORS and CEC Final Decision has been met in the area of facility design.	With 30 days after receipt of Certificate of Occupancy	7/30/12			
GEN-01b	CONS	Final Certificate of Occupancy	Provide the CPM a copy of the Final Certificate of Occupancy from the CBO.	Within 30 days after receipt from the CBO	6/30/12			
GEN-01c	CONS	Once the certificate of occupancy has been issued, the project owner shall inform the CPM at least 30 days prior to any construction, addition, alteration, moving, demolition, repair, or maintenance being performed on any portion(s) of the completed facility that requires CBO approval for compliance with the above codes. The CPM shall then determine if the CBO needs to approve the work.	The CPM shall then determine if the CBO needs to approve the work.	At least 30 days prior to such work	9/28/12			
GEN-02b	CONS	Major structures and equipment shall be added to or deleted from Facility Design Table 1 (see page 46 of Final Decision) only with CPM approval.	The project owner shall provide schedule updates in the MCR.	Monthly	Include in MCR	Ongoing during construction		
GEN-03	CONS	Make payments to the CBO for design review, plan check and construction inspections based upon a reasonable fee schedule to be negotiated between NCPA and the CBO.	Send copy of CBO's receipt of payment to CPM in next MCR indicating applicable fees have been paid.	Monthly	Include in MCR	Ongoing during construction		
GEN-04b	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.	Notify the CPM of the CBO's approval of the new engineer.	Within 5 days	As required			

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GEN-05c	CONS	If the designated responsible engineer is subsequently reassigned or replaced, submit the resume and registration number of the newly assigned engineer to the CBO for review and approval.	Notify the CPM of the CBO's approval of the new engineer.	Within 5 days	As required			
GEN-06a	CONS	Assign to the project, qualified and certified special inspector(s) who shall be responsible for the special inspections required by the 2007 CBC. A certified weld inspector, certified by the American Welding Society (AWS) and/or American Society of Mechanical Engineers (ASME) as applicable, shall inspect welding performed on-site requiring special inspection (including structural, piping, tanks, and pressure vessels). The special inspector shall perform the duties specified in the condition.	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.	At least 15 days prior to start of an activity requiring special inspection	9/21/10	Ongoing during construction		Info is included in MCRs
GEN-06b	CONS	Submit to the CPM a copy of the CBO's approval of the qualifications of all special inspectors.	Include the required documentation in the MCR.	Monthly	Include in MCR	Ongoing during construction		
GEN-06c	CONS	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 5 days	As required			
GEN-07	CONS	If any discrepancy in design and/or construction is discovered in any engineering work that has undergone CBO design review and approval, the project owner shall document the discrepancy and recommend required corrective actions. The discrepancy documentation shall be submitted to the CBO for review and approval. The discrepancy documentation shall reference Condition GEN-7 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 MCR. 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.	Monthly	Include in MCR	Ongoing during construction		
GEN-08a	CONS	Obtain the CBO's final approval of all completed work that has undergone CBO design review and approval. Request that the CBO 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.	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.	Within 15 days of completion of any work	Include in MCR			
GEN-08b	CONS	Electronic copies of the approved plans, specifications, calculations, and marked-up as-builts shall be provided to the CBO for retention by the CPM.	Submit to the CPM a letter stating both that the above documents have been stored and the storage location of those documents.	After storing final approved plans, specs, and calcs	As required			
GEN-08c	CONS	Provide to the CBO three sets of electronic copies of the documents referenced in the condition.	Documents shall be provided in the form of "read only" (Adobe .pdf 6.0) files, with restricted (password-protected) printing privileges, on archive quality CDs.	Within 90 days after completion of construction	9/10/12			

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HAZ-02	CONS	Develop and implement a Safety Management Plan (SMP) for the delivery of anhydrous ammonia and other liquid hazmat by tanker truck. The plan shall address the information required in the Condition. This plan shall be applicable during construction, commissioning, and operation of the power plant.	Submit the plan to the CPM for review and approval.	At least 30 days prior to delivery of any liquid haz mat to the facility	Complete		2010-067 12/8/10	Approved by CEC 12/2/10
HAZ-03	CONS	Direct all vendors delivering aqueous ammonia to the site to use only tanker truck transport vehicles that meet or exceed the specifications of DOT Code MC-330 or 331.	Submit copies of notification letter to supply vendors indicating the transport vehicle specs to the CPM for review and approval.	At least 30 days prior to commissioning	10/15/11			Existing vendor for STIG delivers ammonia
HAZ-04	CONS	Direct all vendors delivering any hazardous material to the site to use only the route approved by the CPM (I-5 to North Thornton Road to Frontage Road to North Cord Road to the project site). Obtain approval of the CPM if an alternate route is desired.	Submit copies of the required transportation route limitation direction to the CPM for review and approval.	At least 60 days prior to commissioning	10/15/11			Existing vendor for STIG delivers ammonia
HAZ-06a	COMM	Prepare a site-specific security plan for the commissioning and operational phases which addresses all the items in the Condition.	Notify the CPM that a site-specific operations site security plan is available for review and approval.	At least 30 days prior to commissioning	10/15/11			
MECH-01a	CONS	MAJOR PIPING & PLUMBING SYSTEMS: Submit for CBO design review and approval the proposed final design, specifications and calcs for each plant major piping and plumbing system listed in Facility Design Table 1 of GEN-2. Physical layout drawings and drawings not related to code compliance and life safety need not be submitted. The submittal shall also include the applicable QA/QC procedures. Upon completion of construction of any such major piping or plumbing system, the project owner shall request the CBO's inspection approval of that construction.	Submit to the CBO for design review and approval the final plans, specs, and calcs, including a copy of the signed and stamped statement from the responsible mechanical engineer certifying compliance with applicable LORS.	At least 30 days prior to the start of any major piping or plumbing construction listed in Table 1	Ongoing during construction	Ongoing during construction		Info is included in MCRs
MECH-01b	CONS	Upon completion of construction of any such major piping or plumbing system, the project owner shall request the CBO's inspection approval of that construction.	Transmit to the CPM, following completion of any inspection, a copy of the transmittal letter conveying the CBO's inspection approvals.	Monthly	Include in MCR	Ongoing during construction		
MECH-02a	CONS	PRESSURE VESSELS: Submit to the CBO and Cal-OSHA the code certification papers and other documents required by applicable LORS.	Submit to the CBO for design review and approval the final plans, specs, and calcs, including a copy of the signed and stamped statement from the responsible mechanical engineer certifying compliance with LORS	At least 30 days prior to start of onsite fabrication or installation of any pressure vessel	Ongoing during construction			
MECH-02b	CONS	Upon completion of the installation of any pressure vessel, the project owner shall request the appropriate CBO and/or Cal-OSHA inspection of that installation/	Transmit to the CPM, in the MCR following completion of any inspection, a copy of the transmittal letter conveying the CBO's and/or Cal-OSHA inspection approvals.	Monthly	Include in MCR	Ongoing during construction		

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MECH-03a	CONS	HVAC SYSTEMS: Submit for CBO design review and approval the proposed final design, specifications and calculations for each any heating, ventilating, air conditioning (HVAC) or refrigeration system. Packaged HVAC systems, where used, shall be identified with the appropriate manufacturer's data sheets.	Submit the calcs, plans, and specs to the CBO, including a copy of the signed and stamped statement from the responsible mech engr certifying compliance with CBC and other applicable codes, with a copy of transmittal to CPM.	At least 30 days prior to start of construction of any HVAC or refrig system	Ongoing during construction			
MECH-03b	CONS	Design and install all HVAC and refrigeration systems within buildings and related structures in accordance with the CBC and other applicable codes. Upon completion of construction of pressure vessels, request the CBO's inspection approval of that construction.	Provide the required written documentation to the CPM.	Monthly	Include in MCR	Ongoing during construction		
NOISE-02	CONS	Throughout the construction and operation of the project, document, investigate, evaluate, and attempt to resolve all project-related noise complaints. Noise Complaint Resolution process will be used.	File a Noise Complaint Resolution Form with the City and the CPM documenting resolution of the complaint. If mitigation is required to resolve a complaint, and the complaint is not resolved within a three-day period, the project owner shall submit an updated Noise Complaint Resolution Form when the mitigation is implemented.	Within 5 days of receiving a noise complaint	As required			
NOISE-04a	COMM	Project design and implementation shall include appropriate noise mitigation measures adequate to ensure that the noise levels due to operation of the project alone will not exceed: an hourly average of 45 dBA, measured at or near monitoring locations M1 (approximately 4,250 feet north of the project site boundary) and M2 (approximately 5,500 feet northeast of the project site boundary); an hourly average of 44 dBA, measured at or near monitoring location M3 approximately 7,000 feet southeast of the project site boundary); and an hourly average of 42 dBA, measured at or near monitoring location M4 (approximately 10,000 feet south of the project site boundary). (See condition for additional information.)	Conduct a community noise survey at monitoring location M4, or at a closer location acceptable to the CPM. This survey during the power plant's full-load operation shall also include measurement of one-third octave band sound pressure levels. Conduct a survey of noise at monitoring locations M1, M2, and M3, or at closer locations acceptable to the CPM. The short-term noise measurements at this location shall be conducted during the nighttime hours of 10:00 p.m. to 7:00 a.m.	Within 30 days of project's first achieving a sustained output of 85% or greater of rated capacity	7/12/12			
NOISE-04b	COMM	Submit a summary report of the survey to the CPM. Included in the survey report shall 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. When these measures are in place, the project owner shall repeat the noise survey.	Submit required info to the CPM.	Within 15 days after completing noise survey	7/27/12			
NOISE-06	CONS	Equip the steam blow piping with a temporary silencer. The project owner shall conduct steam blows only during the hours of 7:00 a.m. to 9:00 p.m.	Submit to the CPM drawings or other information describing the temporary steam blow silencer and a description of the steam blow schedule	At least 15 days prior to the first steam blow	4/16/12			
NOISE-07a	CONS	Notify all residents or business owners within one mile of the site of the planned steam blow activity, and make the notification available to other area residents in an appropriate manner.	The notification may be in the form of letters to the area residences, telephone calls, fliers or other effective means. The notification shall include a description of the purpose and nature of the steam blow(s), the proposed schedule, the expected sound levels, and the explanation that it is a one-time operation and not a part of normal plant operations.	At least 15 days prior to first steam blow(s)	4/16/12			

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NOISE-07b	CONS	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.	Provide the required documentation to the CPM.	Within 5 days of notifying entities	4/21/12			
PAL-05	CONS	Ensure that the PRS and PRM(s) monitor consistently with the PRMMP, all construction-related grading, excavation, trenching, and auguring in areas where potentially fossil-bearing materials have been identified.	Paleo monitors shall provide monthly summaries for inclusion in MCR.	Monthly	Include in MCR	Ongoing during construction		
PAL-07	CONS	Ensure preparation of a Paleontological Resources Report (PRR) by the designated PRS to be completed following completion of ground disturbing activities.	Submit the PRR under confidential cover to the CPM.	Within 90 days after completion of ground disturbing activities	9/28/12			
SOIL & WATER-01b	CONS	Submit copies to the CPM of all correspondence between the project owner and the CVRWQCB) about the construction SWPPP, including a copy of the NOI.	Submit the required information to the CEC.	Within 10 days of receipt	As required	Ongoing during construction		
SOIL & WATER-03	CONS	If groundwater is encountered during construction or operation of the LEC, the project owner shall comply with the requirements of the CVRWQCB Order NO. R5-2008-0081 for Waste Discharge Requirements for Dewatering and Other Low threat Discharges to Surface Waters.	Submit a complete Notice of Intent (NOI) to obtain coverage under CVRWQCB Order No. R5-2008-0081. Submit copies to the CPM of all correspondence between the project owner and the CVRWQCB regarding Order No. R5-2008-0081 within 10 days of its receipt or submittal.	Prior to any groundwater discharge or dewatering activities	As required			All deep excavations are complete
SOIL & WATER-06a	CONS	The project owner shall provide the CPM two copies of the executed Recycled Water Purchase Agreement (agreement) with the COL for the long-term supply (30 – 35 years) of tertiary treated recycled water to the LEC. The agreement shall specify a maximum daily supply of 2.61mgd with a total annual maximum supply of 1,800 AFY. The agreement shall specify all terms and costs for the delivery and use of recycled water by the LEC.	Submit two copies of the executed agreement for the supply and on-site use of recycled water at the LEC.	No later than 60 days prior to connection to City's recycled water pipeline	Complete	5/19/10	2010-026	Approved 6/1/10
SOIL & WATER-06b	CONS	The LEC shall not connect to the COL's recycled water pipeline without the final agreement in place and submitted to the CPM. The project owner shall comply with the requirements of Title 22 and Title 17 of the California Code of Regulations and section 13523 of the California Water Code.	The project owner shall submit to the CPM a copy of the Engineering Report and Cross Connection inspection and approval report from the California Department of Public Health prior to the delivery of recycled water from the COL.	Prior to the delivery of recycled water from the COL	10/30/11			
SOIL & WATER-07a	CONS	The project shall not construct a supply well or extract and use any groundwater therefrom until the SJCEHD issues its written evaluation as to whether the proposed well construction and operation activities comply with all applicable county well requirements, and the CPM provides approval to construct the well. Submit a well construction application to the SJCEHD in accordance the City of Lodi (COL) Municipal Code, Title 8, Chapter 8.08. (See condition for specific requirements.)	Send the CPM 2 copies of the water well construction application submitted to the San Joaquin SJCEHD.	No later than 30 days prior to construction of the onsite water supply well	11/1/11		9/14/11 2011-018	Pending CEC approval

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SOIL & WATER-07b	CONS	Provide written concurrence from the SJCEHD indicating that the proposed well construction activities comply with all county well requirements and meets the requirements established by the county's water well permit program.	Provide CPM with 2 copies of the written concurrence document from the SJCEHD.	No later than 15 days prior to construction of the onsite water supply well	11/16/11			
SOIL & WATER-07c	CONS	Ensure the driller has submitted Well Completion Report for each well installed to CDWR.	Provide a copy of the well completion report to the CPM along with a copy of well drilling logs, water quality analyses, and any inspection reports that may be completed.	No later than 60 days after installation of any water supply well	1/30/12			
SOIL & WATER-07d	CONS	Ensure compliance with all county water well standards and requirements during construction.	Provide CPM with 2 copies of all monitoring or other reports required during construction.	As required	As required			
SOIL & WATER-07e	CONS	Submit documentation to the CPM and the RWQCB that well drilling activities were conducted in compliance with Title 23, California Code of Regulations, Chapter 15, Discharges of Hazardous Wastes to Land, (23 CCR, sections 2510 et seq.) requirements and that any onsite drilling sumps used for project drilling activities were removed in compliance with 23 CCR section 2511(c).	Submit required info to the CPM.	No later than 15 days after completion of well	1/15/12			
SOIL & WATER-08a	CONS	Install and maintain metering devices as part of the water supply and distribution system to monitor and record in gallons per day the volume of potable and recycled water supplied to the LEC.	Submit to the CPM evidence that metering devices have been installed and are operational on the potable and recycled pipelines serving the project.	At least 60 days prior to use of any water source for operations	4/1/12			
STRUC-01a	CONS	Prior to the start of any increment of construction of any major structure or component listed in Facility Design Table 1 of Condition of Certification GEN-2, above, the project owner shall submit to the CBO for design review and approval the proposed lateral force procedures for project structures and the applicable designs, plans, and drawings for project structures. Proposed lateral force procedures, designs, plans, and drawings shall be those for the items listed in the GEN-2 table. <b>Construction of any structure or component shall not begin until the CBO has approved the lateral force procedures to be employed in designing that structure or component.</b>	Submit to the CBO the final design plans, specs and calcs with a copy of the transmittal letter to the CPM.	At least 60 days prior to start of any structure or component listed in Facility Design Table 1 of GEN-2	8/7/10	Ongoing during construction		Included as part of MCRs
STRUC-01b	CONS	Submit to the CPM 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.	Submit required info to the CPM as part of the MCR.	Monthly	Include in MCR	Ongoing during construction		

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STRUC-02	CONS	Submit to the CBO the required number of sets of the documents related to work that has undergone CBO design review and approval related to concrete cylinder strength test reports and pour sign-off sheets, bolt torque and field weld inspection reports, and other reports covering structural activities requiring special inspections in accordance with CBC 2007.	If a discrepancy is discovered in any of the above data, 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. Within five days of resolution of the NCR, submit a copy of the corrective action to the CBO and the CPM. 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, of the reason for disapproval and the revised corrective action necessary to obtain CBO's approval.	As required	As required	Ongoing during construction		
STRUC-03	CONS	Submit to the CBO design changes to the final plans required by the 2007 CBC, including the revised drawings, specifications, calculations, and a complete description of, and supporting rationale for, the proposed changes, and shall give to the CBO prior notice of the intended filing.	Notify the CBO of the intended filing of design changes and shall submit the required number of sets of revised drawings and the required number of copies of the other above-mentioned documents to the CBO, with a copy of the transmittal letter to the CPM. The project owner shall notify the CPM, via the MCR, when the CBO has approved the revised plans.	Monthly	Include in MCR	Ongoing during construction		
STRUC-04a	CONS	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts specified in the 2007 CBC shall, at a minimum, be designed to comply with the requirements of that chapter.	Submit to the CBO for design review and approval the final plans, specs, and calcs, including a copy of the signed and stamped statement from the responsible engineer certifying compliance with LORS	At least 30 days prior to the start of installation of the tanks or vessels	Ongoing in MCR	Ongoing during construction		Included as part of MCRs
STRUC-04b	CONS	Send copies of the CBO approvals of plan checks to the CPM. Also transmit a copy of the CBO's inspection approvals to the CPM in the MCR following completion of any inspection.	Provide requested info to CPM as part of the MCR.	Monthly	Include in MCR	Ongoing during construction		
TLSN-01	CONS	Construct the proposed transmission line 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 Pacific Gas and Electric's EMF-reduction guidelines.	Submit to the CPM a letter signed by a CA registered EE affirming that the line will be constructed according to the requirements set forth in the Condition.	At least 30 days prior to starting construction of the t-line or related structures and facilities	6/25/11	3/28/11	2011-008	Pending CPM Approval
TLSN-03	COMM	Use a qualified individual to measure the strengths of the electric and magnetic fields from the line at the points of maximum intensity along the proposed route. The measurements shall be made before and after energization according to ANSI/IEEE standard procedures. These measurements shall be completed not later than six months after the start of operations.	File copies of the pre-and post-energization measurements with the CPM	Within 60 days after completion of measurements	12/31/11			

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TLSN-05	CONS	Ensure that all permanent metallic objects within the right-of-way of the project-related lines are grounded according to industry standards regardless of ownership.	Transmit to the CPM a letter confirming compliance with this condition.	At least 30 days before lines are energized	9/15/11			
TRANS-02b	CONS	Provide photo/videotape documentation that the damaged sections of Eight Mile Road, North Thornton Road, I-5 Frontage Road, and Cord Road have been restored to their pre-project condition.	Submit info to San Joaquin Planning Department and the CPM	Within 90 days following completion of construction	9/28/12			
TSE-01a	CONS	Provide the CPM and CBO with a schedule of transmission facility design submittals, a master drawing list, a master specifications list, and a major equipment and structure list for the components listed in the condition. To facilitate audits by CEC staff, the project owner shall provide designated packages to the CPM when requested.	Provide info to CBO and CPM. Additions and deletions shall be made to the table only with both CPM and CBO approval.	At least 60 days prior to start of construction of the t-line	Included in MCR	Ongoing during t-line construction		
TSE-01b	CONS	Provide schedule updates as part of the MCR.	Include the required documentation in the MCR.	Monthly	Include in MCR	Ongoing during t-line construction		
TSE-02a	CONS	Assign an electrical engineer and at least one of each of the following: a civil engineer; geotechnical engineer or a civil engineer experienced and knowledgeable in the practice of soils engineering; a design engineer who is either a structural engineer or a civil engineer and fully competent and proficient in the design of power plant structures and equipment supports; or a mechanical engineer.	Submit names, resumes, quals, and registration numbers of all engineers assigned to the project to the CBO for review and approval. (If any are replaced, new resumes must be submitted.)	At least 30 days prior to start of rough grading	Complete	6/14/10	2010-045	Approved 6/22/10
TSE-02b	CONS	If the designated responsible engineer is subsequently reassigned or replaced, the project owner has five days in which to submit the name, qualifications, and registration number of the newly assigned engineer to the CBO for review and approval.	The project owner shall notify the CPM of the CBO's approval of the new engineer	within five days of the approval	As required			
TSE-03	CONS	If any discrepancy in design and/or construction is discovered in any engineering work that has undergone CBO design review and approval, the project owner shall document the discrepancy and recommend corrective action. The discrepancy documentation shall become a controlled document and shall be submitted to the CBO for review and approval and refer to this condition of certification.	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	As required			CEC approved minor relocation of one tower on 6/9/11
TSE-04a	CONS	For the power plant switchyard, outlet line and termination, construction shall not begin 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.	Submit to the CBO for review and approval the final design plans, specifications and calculations.	At least 30 days before the start of each increment of construction	Included in MCR			CBO has approved all documents for construction
TSE-04b	CONS	The following activities shall be reported in the MCR: A. Receipt Or Delay Of Major Electrical Equipment; B. Testing Or Energization Of Major Electrical Equipment; and C. The Number Of Electrical Drawings Approved, Submitted For Approval, And Still To Be Submitted.	Include the required documentation in the MCR.	Monthly	Include in MCR	Ongoing during t-line construction		

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Date sent to CEC, CBO or agency	NCPA Log #	CEC Status
TSE-05a	CONS	Design, construct, and operate the proposed transmission facilities in conformance with all applicable LORS, and the requirements listed in the condition (see Items A-I).	Submit the required number of copies of the design drawings and calculations, as determined by the CBO.	At least 60 days prior to start to construction of the transmission facilities	Included in MCR			CBO has approved all documents for construction
TSE-05b	CONS	Provide electrical one-line diagrams signed and sealed by the registered professional electrical engineer in charge, a route map, and an engineering description of the equipment and configurations covered by requirements TSE-5 a) through j),	Submit the requested info to the CBO for approval.	At least 60 days prior to start to construction of the transmission facilities	Included in MCR			CBO has approved all documents for construction
TSE-05c	CONS	Provide the final Detailed Facility Study (DFS) including a description of facility upgrades, operational mitigation measures, and/or special protection system sequencing and timing if applicable.	Submit the requested info to the CBO for approval.	At least 60 days prior to start to construction of the transmission facilities	Included in MCR			These docs were provided to the CEC during permitting
TSE-05d	CONS	Provide the executed project owner and California ISO facility interconnection agreement.	Submit the requested info to the CBO for approval.	At least 60 days prior to start to construction of the transmission facilities	Included in MCR			These docs were provided to the CEC during permitting
TSE-05d	CONS	Provide evidence showing coordination with the affected agencies and utilities including but not limited to Western Area Power Administration and Lodi Electric Utility.	Submit the requested info to the CBO for approval.	At least 60 days prior to start to construction of the transmission facilities	Included in MCR			Completed during permitting
TSE-05e	CONS	Inform the CPM and CBO of any impending changes which may not conform to the requirements of TSE-05 and request approval to implement such changes.	Inform the CBO and CPM of any impending changes.	At least 60 days prior to start to construction of the transmission facilities	Included in MCR			No changes
TSE-06	COMM	Provide notice to the Cal-ISO prior to synchronizing the facility with the California transmission system as referenced in items A & B of the condition.	Provide written letter to CAISO 7 days prior to synch and send CPM copy of letter. At least 1 business day before synch, call CAISO's outage coordination department (Monday through Friday, between the hours of 7:00 a.m. and 3:30 p.m. at (916) 351-2300).	One week prior to initial synchronization w/ the grid	3/25/12			

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Date sent to CEC, CBO or agency	NCPA Log #	CEC Status
TSE-07	CONS	Inspect the transmission facilities during and after project construction, and for any subsequent CPM- and CBO-approved changes, to ensure conformance with CPUC General Order 95 or National Electric Safety Code (NEC); Title 8 of the California Code and Regulations (Title 8); Articles 35, 36 and 37 of the High Voltage Electric Safety Orders, California ISO standards, National Electric Code (NEC) and related industry standards. In cases of non-conformance, the project owner shall inform the CPM and CBO, in writing and within 10 days of the discovery of such non-conformance, and the actions that will be taken to correct it.	Transmit to the CPM and CBO: "As built" engineering description(s) and one-line drawings of the electrical portion of the facilities signed and sealed by the registered electrical engineer in charge; a statement verifying conformity with the standards set forth in Condition; "as built" engineering description of the mechanical, structural, and civil portion of the transmission facilities signed and sealed by the registered engineer in charge or an acceptable alternative verification; and a summary of inspections of the completed transmission facilities, and identification of any nonconforming work and corrective actions taken, signed and sealed by the registered engineer in charge.	Within 60 days after first synchronization to the grid	2/1/12			
VIS-01	CONS	Ensure that construction lighting is used in a manner that minimizes potential night lighting impacts: minimum necessary brightness, shielded/hooded and directed downward, and kept off when not in use.	Notify the CPM that the lighting is ready for inspection. (If complaints are received, provide CPM with a complaint resolution form report and include copy in MCR.)	Within 7 days after first use of construction lighting	Complete			
VIS-02	CONS	Landscape screening deleted.		None				
VIS-03a	CONS	Ensure that the cooling tower is designed and operated as presented to the CEC during the licensing of the LEC project. The cooling tower shall be designed and operated to meet the plume fogging frequency curve received into evidence as Exhibit 5 at the evidentiary hearing held at the CEC on 1/5/10.	Provide to the CPM for review the final design specifications of the cooling tower to confirm that the fogging frequency curve for the cooling tower cells matches Exhibit 5. The project owner shall not order the cooling tower until notified by the CPM that this design requirement has been satisfied.	At least 90 days prior to ordering the cooling tower	Complete			Approved 7/9/10
VIS-04a	CONS	Design and install all permanent exterior lighting such that (a) lamps and reflectors are not visible from beyond the project site, including any off-site security buffer areas; (b) lighting does not cause excessive reflected glare; (c) direct lighting does not illuminate the nighttime sky; (d) illumination of the project and its immediate vicinity is minimized, and (e) the plan complies with local policies and ordinances.	Contact the CPM to discuss the documentation required in the lighting mitigation plan. The project owner shall not order any exterior lighting until receiving CPM approval of the lighting mitigation plan.	At least 90 days prior to ordering any permanent exterior lighting	2/15/11			
VIS-04b	CONS	Prepare a lighting mitigation plan that includes the specific info set forth in the condition.	Submit to the CPM for review and approval and simultaneously to city of Lodi Community Development Department and San Joaquin County Community Development Department for review and comment.	At least 60 days prior to ordering any permanent exterior lighting	3/15/11	3/18/11	2011-005 and 2011-006	Approved 6/9/11
VIS-04c	COMM	Notify the CPM that the permanent exterior lighting has been completed and is ready for inspection.	Set up an inspection appointment.	Prior to start of commercial operation	5/13/12			

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Date sent to CEC, CBO or agency	NCPA Log #	CEC Status
VIS-05a	CONS	Treat the surfaces of all project structures and buildings visible to the public in accordance with the provisions in the Condition. The transmission line conductors shall be nonspecular and nonreflective; and the insulators shall be nonreflective and nonrefractive. The project owner shall not specify to the vendors the treatment of any buildings or structures treated during manufacture, or perform the final treatment on any buildings or structures treated in the field, until the project owner receives notification of approval of the treatment plan by the CPM. Subsequent modifications to the treatment plan are prohibited without CPM approval.	Submit a specific surface treatment plan to the CPM for review and approval that addresses all the items in the Condition, and simultaneously to the city of Lodi Community Development Department and San Joaquin County Community Development Department for review and comment.	At least 90 days prior to specifying to the vendor the colors and finishes of the first structures or buildings that are surface treated during manufacture	Complete	10/27/10	2010-065	Approved 12/10/10
VIS-05b	COMM	Notify the CPM that the surface treatment of all listed structures and buildings has been completed and is ready for inspection and submit electronic color photographs taken from the same KOPs	Set up an inspection appointment.	Prior to start of commercial operation	5/13/12			
WASTE-03	CONS	If potentially contaminated soil is identified during site characterization, excavation, or grading at either the proposed site or linear facilities, as evidenced by discoloration, odor, detection by handheld instruments, or other signs, the Professional Engineer or Professional Geologist shall inspect the site, determine the need for sampling to confirm the nature and extent of contamination, and provide a written report to the project owner, representatives of DTSC, and the CPM stating the recommended course of action.	Submit any final reports filed by the Professional Engineer or Professional Geologist to the CPM. Project owner must notify the CPM within 24 hours of any orders issued to halt construction.	Within 5 days of their receipt	As required	Ongoing during construction		
WASTE-04	CONS	Obtain a hazardous waste generator identification number from the United States Environmental Protection Agency prior to generating any hazardous waste during construction and operations.	Keep a copy of the identification number on file at the project site and provide the number to the CPM in the next MCR.	Prior to generating any haz waste	Ongoing	10/27/10	emailed	Approved 10/27/10
WASTE-05	CONS	Upon becoming aware of any impending waste management-related enforcement action by any local, state, or federal authority, 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 manner in which project-related wastes are managed.	As required	Within 10 days of becoming aware of action	Ongoing during construction		
WASTE-06a	COMM	Prepare an Operations Waste Management Plan for all wastes generated during construction of the facility that meets the requirements defined in the condition.	Submit plan to the CPM for review and approval. See Final Decision WASTE-5 for plan requirements.	No less than 30 days prior to start of project operation	5/3/12			
WASTE-08	CONS	Ensure that all spills or releases of hazardous substances, hazardous materials, or hazardous waste are reported, cleaned-up, and remediated as necessary, in accordance with all applicable federal, state, and local requirements.	Provide documentation as set forth in the verification language of the condition to the CPM. Copies of the unauthorized spill documentation shall be provided to the CPM within 30 days of the date the release was discovered.	As required	As required	6/15/11	2011-011	Pending CPM Approval

Cond. #	Sort Code	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Date sent to CEC, CBO or agency	NCPA Log #	CEC Status
WORKER SAFETY-02	COMM	Prepare and submit an O&M Safety & Health Plan containing: an IIPP, EAP, HMMP, FPP, and PPE.	The Operations IIPP, EAP, PPE shall be submitted to the CEC CPM for review and comment; the EAP and FPP shall also be submitted to the Woodbridge Fire Protection District for review and comment. Provide a copy of a letter to the CPM from the Woodbridge Fire Protection District stating the fire department's comments on the Operations Fire Prevention Plan and Emergency Action Plan.	At least 30 days prior to first fire or commissioning	10/15/11			
WORKER SAFETY-03a	CONS	Provide a site Construction Safety Supervisor (CSS) who will perform the duties set forth in the Condition.	Submit to CPM the name and contact info for the construction safety supervisor.	At least 30 days prior to site mobilization	Complete	6/22/10	Submitted J. Selvey under 2011-002	
WORKER SAFETY-03b	CONS	The CSS shall prepare and submit a monthly safety inspection that includes the info specified in the verification language of the condition.	Submit required info to the CPM.	Monthly	Include in MCR	Ongoing during construction		
WORKER SAFETY-04b	CONS	The CBO Safety Monitor shall be responsible for verifying that the construction safety supervisor implements all required Cal/OSHA and CEC safety requirements.	Submit the CBO Safety Monitor's report as part of the MCR.	Monthly	Include in MCR	Ongoing during construction		

Exhibit 7

AQCMM Monthly Report



## **NCPA LODI ENERGY CENTER**

### **Lodi California**

### **September 2011 AQCOMM / SWPPP Monthly Report**

#### **General Progress:**

The Month of September was warm with temperatures in the high 80's to low 90's most of the time. ARB's water truck was run full time for dust control on-site and in the lay down yards. There have not been any complaints from the neighbors or NCPA about dust events.

Granite Construction completed the backfill of the west side of the power island bringing everything up to the finish grade elevation with AB. This cuts the possibility of dust events down significantly and will make the area easier to work in during the up coming wet season. Granite also backfilled the remaining area south of the cooling tower thus allowing for the installation of the fence along this side of the project.

The electricians work on the underground portions of the site lighting this month and are getting closer to being finished with their underground work. This has eliminated a major source for potential dust events occurring. Most of the remaining excavations being carried out in the future will be for foundations. Water hoses are used to control dust as this work is being done.

Major work for the month consisted of pouring of the chemical treatment and storage foundations south of the Water Treatment Building and the pouring of the STG GSU Foundation. This GSU foundation was completed after the setting of the STG generator and turbines which kept the Mil-wrights busy for the month with alignment tasks. The Iron workers worked inside and outside of the STG building erecting the pipe racks. The pipefitters have been working just behind them installing process piping.

As has been the case for the entire project all trades made a concerned effort to carry out their tasks in a manner to prevent dust clouds from forming and keep the site in a clean safe condition. Housekeeping has been a major undertaking with the amount of trash being produced growing as more equipment is unpacked daily. The Laborer crew has done an outstanding job of keeping up with the trash.

#### **SWPPP:**

During the month of September, the site had experienced zero rain events. For the month, there was a total of 0.00 inches of rain.

There were no samples taken as all BMPs were maintained and properly implemented.

Copies of any of the inspection reports are available upon request for review from Jaime Pena.

This report has been prepared by:

Jeff Latham  
ARB, Inc  
Project Engineer/AQCMM  
Jaime Pena  
ARB, Inc.  
Field Engineer

**Lodi Energy Center**  
**Summary of Diesel Construction Equipment Mitigation Determinations**

Month	September										
Equipment Make and Model	Engine Make, Model & Rating	Tier 3 Engine (yes/no)	Tier 2 Engine (yes/no)	Tier 1 Engine (yes/no)	Days Expected Onsite	Excess Oil Consumption Expected (yes/no)	Adequate Exhaust Temperature (yes/no)	Adequate Installation Space (yes/no)	Is There An ARB Certified DPF for this Engine (yes/no)	Mitigation Determination(ULSFO, Tier 3/2/1 engine, DPF, Nox control)	
John Deere 210J Skiploader	John Deere, 4045HT05 4, 99 HP	yes			54	no	yes	NA	NA	Tier 3	
CAT CS663E, SD VIB Comp	CAT, 3056E, 165 HP		yes		41	no	yes	NA	NA	Tier 2	
CAT 14H Grader	CAT, 3176, 257 HP		yes		65	no	yes	NA	NA	Tier 2	
Peterbuilt, 3 ax. Water Truck	Cummins, ISC 300, 315 HP	NA	NA	NA	65	no	yes	NA	NA	NA	
Magnum, Generator,	John Deere, 4045TF27 5D		yes		60	no	yes	NA	NA	Tier 2	
John Deere 210LE Loader	John Deere, 4045DT05			yes		no	yes	NA	NA	Tier 1	
JLG Skytrak 10054	Cummins QSB 4.5T, 110 HP		yes			no	yes	NA	NA	Tier 2	
JLG Skytrak 10054	Cummins QSB 4.5T, 110 HP		yes			no	yes	NA	NA	Tier 2	

**Lodi Energy Center**  
**Summary of Diesel Construction Equipment Mitigation Determinations**

Month	September	Engine Make, Model & Rating	Tier 3 Engine (yes/no)	Tier 2 Engine (yes/no)	Tier 1 Engine (yes/No)	Days Expected Onsite	Excess Oil Consumption Expected (yes/no)	Adequate Exhaust Temperature (yes/no)	Adequate Installation Space (yes/no)	Is There An ARB Certified DPF for this Engine (yes/no)	Mitigation Determination(ULSFO, Tier 3/2/1 engine, DPF, Nox control)
		Caterpillar, C4.4, 99.9 HP	yes				no	yes	NA	NA	Tier 3
		Caterpillar 3126B, 183 HP		yes			no	yes	NA	NA	Tier 2
		MQ Power DCA 70SSIU Generator		yes			no	yes	NA	NA	Tier 2
		Sennebogen ABI TM 13/16		yes			no	yes	NA	NA	Tier 2
		Lay-Mor 8HC Sweeper		NA	NA	65	no	yes	NA	NA	NA
		Caterpillar CS423E Drum Roller		yes			no	yes	NA	NA	Tier 2

CLEAR DIESEL FOR SEPTEMBER – 487 GALLONS  
RED OFF-ROAD DIESEL FOR SEPTEMBER – 3657



... Excellent customer service drives our business!

**Karen Lewallen**  
*Isleton Plant Manager*

[karenl@ramosoil.com](mailto:karenl@ramosoil.com)  
[www.ramosoil.com](http://www.ramosoil.com)

**Ramos Oil Company, Inc.**  
1st Street / Highway 160  
Isleton CA 95641  
Tel: (916) 777-5545  
Fax: (916) 777-5859  
Mobile: (916) 997-6823

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Record Keeping Form

Month: Sept

FORM A - Area Water Application

Project Location: NCPA Power Plant City: Lodi Size: \_\_\_\_\_ (Miles/Acres)

Owner: NCPA Address \_\_\_\_\_ City: \_\_\_\_\_ Zip \_\_\_\_\_

Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_ Phone: ( ) \_\_\_\_\_

Watering Schedule

Use this form to document daily water applications at a single site by recording total gallons per day and number of applications per day at a single area. Use additional forms, as necessary, for areas with different treatment schedules.

Area treated: Job site & laydown yards.

Week	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1					9-1 4 8000	9-2 4 9000	9-3 4 0
2	9-4 4 0	9-5 4 0	9-6 4 8000	9-7 4 8000	9-8 4 8000	9-9 5 10,000	9-10 5 0
3	9-11 4 0	9-12 5 10,000	9-13 5 10,000	9-14 5 10,000	9-15 5 10,000	9-16 5 10,000	9-17 5 0
4	9-18 4 0	9-19 5 10,000	9-20 7 14,000	9-21 6 12,000	9-22 5 10,000	9-23 4 8000	9-24 4 0
5	9-25 4 0	9-26 5 10,000	9-27 5 10,000	9-28 6 12,000	9-29 5 10,000	9-30 4 8000	

Area treated: \_\_\_\_\_

Week	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1							
2							
3							
4							
5							

Exhibit 8

Resource Specialists' Monthly Reports

**Biological Resources**  
**Mitigation Monitoring for the**  
**Lodi Energy Center Project**

**MONTHLY COMPLIANCE REPORT (BIO-2)**

**September 2011**

**Prepared by:**

**CH2M HILL**

**2485 Natomas Park Drive, Suite 600**

**Sacramento, California 95833**

# Lodi Energy Center

## MONTHLY COMPLIANCE REPORT

September 2011

### TABLE OF CONTENTS

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### APPENDICES

- A) Cumulative Wildlife Species Observed in or Near the Project Area
  - B) Site Photos
  - C) Wildlife Observation Forms
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# INTRODUCTION

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The Lodi Energy Center (LEC) project site is on 4.4 acres of land owned and incorporated by the City of Lodi, 6 miles west of the Lodi city center. The site is located adjacent to Interstate-5 approximately 1.7 miles south of State Route 12. On the east side of the site is the City of Lodi's White Slough Water Pollution Control Facility (WPCF). The WPCF's treatment and holding ponds are located to the north. To the west is the 49-megawatt Northern California Power Agency (NCPA) Combustion Turbine Project (STIG Plant), and further to the west is the Pacific Gas and Electric Company (PG&E) overhead 230 kilovolt electric transmission line. The San Joaquin County Mosquito and Vector Control facility is located south of the project site.

Originally, construction of the LEC facility would require the use of four laydown areas totaling 9.8 acres; Area A consisted of 3.1 acres, Area B consisted of 2.2 acres, Area C consisted of 1.6 acres, and Area D consisting of 2.9 acres. On July 2, 2010, NCPA filed a petition with the California Energy Commission (CEC) requesting the additional use of 9.4 acres of construction laydown and parking areas. The requested areas will add 0.7 acres to the existing 3.1 acre laydown Area A, add an additional 6.1 acre laydown area known as Area E which is directly north of the frontage entrance to the LEC project site and an additional 2.6 acre laydown area known as Area F. On October 9, 2011, the CEC staff included as part of the project the requested additional laydown areas contingent on mitigating the impacts to the additional acres through the San Joaquin County Multi-Species Habitat Conservation & Open Space Plan (MSHCP) for the fee of \$48,229.50. NCPA paid the use fee to the MSHCP and the additional laydown areas were released for use by the CEC on October 13<sup>th</sup>, 2010.

Initially, the construction of the LEC gas pipeline as permitted required a 35-foot construction right-of-way which would affect approximately 3.55 acres of agricultural land. The original 3.55 acres was mitigated along with other project impacts through the MSHCP by NCPA acquiring 21.25 acres which was placed in a conservation easement that the San Joaquin County Council of Governments (SJCOG) would oversee in perpetuity. After further project review the gas pipeline was redesigned by PG&E and an additional 5.37 acres of right-of-way was determined to be required. Therefore, on July 15, 2011 NCPA submitted a request to the MSHCP for an additional 5.37 acres of mitigation credits to cover impacts to agricultural land, the fee for this transaction was \$71,216.94. On September 8, 2011 the additional mitigation fee was paid to the MSHCP finalizing the mitigation requirement. As required for all project description changes or acreage impact changes the CEC was notified of the proposed change on July 19, 2011 when it was presented as a modification to the project description. On September 29, 2011 the CEC approved the project description modification and the new gas pipeline is scheduled to begin construction during the month of October, 2011.

Biological monitoring for the month of September included monitoring the 4.4-acre power generation facility, and the 19.2 acre laydown areas.

## MONITORED MITIGATION MEASURES AND PERMIT CONDITIONS

Mitigation measures for the LEC project site were developed through consultation with the California Energy Commission (CEC), and the SJCOG which oversees the MSHCP. Documentation of compliance with any conditions of the agency permits will be included when used on the project.

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

BIO-9, employing giant garter snake (GGS) mitigation measures like sediment/ animal fencing protecting sensitive areas, every worker participating in the WEAP program, and the Designated Biologist monitoring any disturbance within GGS habitat for giant garter snake protection insured that BIO-9 was in compliance during the month of September 2011.

BIO-10, burrowing owl mitigation measures like pre-disturbance surveys, every worker participating in the WEAP program and the Designated Biologist making weekly site visits insured that BIO-10 was in compliance during the month of September 2011.

BIO-11, Swainson's hawk (SWHA) mitigation measures like pre-disturbance surveys, every worker participating in the WEAP program and the Designated Biologist making weekly site visits insured that BIO-11 was in compliance during the month of September 2011.

BIO-12, migratory bird mitigation measures like pre-disturbance surveys, every worker participating in the WEAP program and the Designated Biologist making weekly site visits insured that BIO-12 was in compliance during the month of September 2011.

BIO-13, northwestern and western pond turtle mitigation measures like sediment/ animal fencing protecting sensitive areas, every worker participating in the WEAP program, and the Designated Biologist monitoring any disturbance within pond turtle habitat insured that BIO-13 was in compliance during the month of September 2011.

## **SUMMARY OF ACTIVITIES**

This report provides a summary of September 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**

September LEC project site activities consisted of concrete pouring, underground piping installation, welding, and construction of the HRZG stack, as well as continuing construction on the plant's foundations and electrical pathways. There was no construction activity outside of the LEC project site and its laydown areas.

Monitoring visits were conducted periodically to document permit compliance.

### **WORKER ENVIRONMENTAL AWARENESS TRAINING**

The WEAP program was developed exclusively for the LEC 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.

Seventy-six (76) personnel received WEAP training in September for a total of 1142 employees trained at LEC since the project started. An ARB Safety and Compliance Manager administered the WEAP training to new employees as well as the LEC Designated Biologist and Biological

Monitor. Signed affidavits are kept on file by the ARB Safety and Compliance Manager and the NCPA Compliance Manager.

## GENERAL DAILY NOTES AND OBSERVATIONS

**During the month of September daily Biological Monitoring was not required. Project biological oversight was covered by the Designated Biologist (DB) Rick Crowe or the Biological Monitors (BM) Dan Williams or Victor Leighton. The monitoring efforts for the month of September are documented below;**

**September 15**, the DB was on site to perform a compliance spot check, (Photos 4 and 5). During this site visit the DB inspected all sensitive areas for implementation of mitigation measures, (Photos 1, 2, and 3) and interfaced with key construction personnel concerning potential upcoming construction issues. During this site visit the LEC project was in compliance.

**September 20<sup>th</sup>**, the DB was on site to perform a compliance spot check, (Photos 6, 7, and 8). While on site DB was informed by NCPA that a dead willow (*Salix* sp.) required removal in Laydown/Construction trailer area C, (Photo 9). The DB performed a pre-disturbance survey on the willow and its surrounding area. The DB found the tree and its surroundings devoid of wildlife. During this site visit the DB inspected all sensitive areas for implementation of mitigation measures and interfaced with key construction personnel concerning potential upcoming construction issues. During this site visit the LEC project was in compliance.

**September 29<sup>th</sup>**, the DB was on site to perform a compliance spot check, (Photos 10, 11, and 12). During this site visit the DB inspected all sensitive areas for implementation of mitigation measures and interfaced with key construction personnel concerning potential upcoming construction issues. During this site visit the LEC project was in compliance.

**Appendix A**  
**Cumulative Wildlife Species Observed in or Near**  
**the Project Area**

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## Cumulative Wildlife Species Observed in or Near the LEC Project Area

Common Name	Scientific Name	Comments
<b>• BIRDS</b>		
Canada goose	<i>Branta canadensis</i>	WPCF ponds, single individual captured and taken to Wildlife Care October 2010.
Cackling goose	<i>Branta hutchinsii</i>	Fly over
Snow goose	<i>Chen caerulescens</i>	Fly over
Gadwall	<i>Anas strepera</i>	WPCF ponds
Mallard	<i>Anas platyrhynchos</i>	WPCF ponds, nest in laydown area A 2011.
Northern pintail	<i>Anas acuta</i>	WPCF ponds
Northern shoveler	<i>Anas clypeata</i>	WPCF ponds
Cinnamon teal	<i>Anas cyanoptera</i>	WPCF ponds
Green-winged teal	<i>Anas crecca</i>	WPCF ponds
Lesser scaup	<i>Aythya affinis</i>	WPCF ponds
Bufflehead	<i>Bucephala albeola</i>	WPCF ponds
Ruddy duck	<i>Oxyura jamaicensis</i>	WPCF ponds
Ring-necked pheasant (Exotic)	<i>Phasianus colchicus</i>	WPCF ponds
Pied-billed grebe	<i>Podilymbus podiceps</i>	WPCF ponds
Eared grebe	<i>Podiceps nigricollis</i>	WPCF ponds
Horned grebe	<i>Podiceps auritus</i>	WPCF ponds
American white pelican	<i>Pelecanus erythrorhynchos</i>	WPCF ponds
Double-crested cormorant	<i>Phalacrocorax auritus</i>	WPCF ponds
Great blue heron	<i>Ardea herodias</i>	Canal and WPCF ponds
Great egret	<i>Ardea alba</i>	Canal and WPCF ponds
Snowy egret	<i>Egretta thula</i>	WPCF ponds, one individual observed dead adjacent to t-line along southern portion of project site August 2010.
Green heron	<i>Butorides virescens</i>	Canal
Black-crowned night-heron	<i>Nycticorax nycticorax</i>	Canal
White-faced ibis	<i>Plegadis chihi</i>	WPCF ponds
Turkey vulture	<i>Cathartes aura</i>	Fly over
White-tailed kite	<i>Elanus leucurus</i>	Pipeline route
Northern harrier	<i>Circus cyaneus</i>	Pipeline route
Cooper's hawk	<i>Accipiter cooperii</i>	Fly over
Sharp-shinned hawk	<i>Accipiter striatus</i>	Fly over
Red-shouldered hawk	<i>Buteo lineatus</i>	Hunting along canal
Red-tailed hawk	<i>Buteo jamaicensis</i>	Pipeline route and laydown areas
Swainson's hawk	<i>Buteo swainsoni</i>	One individual observed dead from collision with fence, Sept. 2010. Pair observed nesting in employee parking lot April 2011.

**Cumulative Wildlife Species Observed in or Near the LEC Project Area**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Comments</b>
American kestrel	<i>Falco sparverius</i>	Laydown areas
Merlin	<i>Falco columbarius</i>	Perched along entrance road, 11/30/10
Peregrine falcon	<i>Falco peregrinus</i>	Hunting WPCF ponds
Prairie falcon	<i>Falco mexicanus</i>	Fly over, 11/9/10
Barn owl	<i>Tyto alba</i>	Dead individual observed near Safety trailer, 11/8/10.
American coot	<i>Fulica americana</i>	WPCF ponds
Sandhill crane	<i>Grus canadensis</i>	Fly over
Black-bellied plover	<i>Pluvialis squatarola</i>	Pipeline route and WPCF ponds
Pacific golden-plover	<i>Pluvialis fulva</i>	WPCF ponds
Killdeer	<i>Charadrius vociferus</i>	Canal, laydown areas, pipeline route, and WPCF ponds. Nest in switchyard 2010. Nest in northern portion of power block, failed 2011. Nest in Laydown Area A predated, April and May 2011.
Semipalmated plover	<i>Charadrius semipalmatus</i>	WPCF ponds
American avocet	<i>Recurvirostra americana</i>	WPCF ponds
Black-necked stilt	<i>Himantopus mexicanus</i>	WPCF ponds
Spotted sandpiper	<i>Actitis macularius</i>	WPCF ponds
Greater yellowlegs	<i>Tringa melanoleuca</i>	Pipeline route and WPCF ponds
Lesser yellowlegs	<i>Tringa flavipes</i>	WPCF ponds
Whimbrel	<i>Numenius phaeopus</i>	WPCF ponds
Long-billed curlew	<i>Numenius americanus</i>	Fly over
Least sandpiper	<i>Calidris minutilla</i>	WPCF ponds
Western sandpiper	<i>Calidris mauri</i>	WPCF ponds
Baird's sandpiper	<i>Calidris bairdii</i>	WPCF ponds
Pectoral sandpiper	<i>Calidris melanotos</i>	WPCF ponds
Dunlin	<i>Calidris alpina</i>	WPCF ponds
Long-billed dowitcher	<i>Gallinago delicata</i>	Canal
Wilson's snipe	<i>Calidris alpina</i>	Pipeline route and WPCF ponds
Wilson's phalarope	<i>Phalaropus tricolor</i>	WPCF ponds
Ring-billed gull	<i>Larus delawarensis</i>	WPCF ponds
Mew gull	<i>Larus canus</i>	WPCF ponds
California gull	<i>Larus californicus</i>	WPCF ponds
Bonaparte's gull	<i>Larus philadelphia</i>	WPCF ponds
Caspian tern	<i>Hydroprogne caspia</i>	WPCF ponds
Forster's tern	<i>Limnodromus scolopaceus</i>	WPCF ponds
Common tern	<i>Sterna hirundo</i>	WPCF ponds
Rock pigeon ( <i>Exotic</i> )	<i>Sterna fosteri</i>	STIG plant
Eurasian collared-dove ( <i>Exotic</i> )	<i>Columba livia</i>	Laydown areas and pipeline route. One individual observed dead within STIG plant, August 2010.

## Cumulative Wildlife Species Observed in or Near the LEC Project Area

Common Name	Scientific Name	Comments
Mourning dove	<i>Streptopelia decaocto</i>	Laydown areas and pipeline route
White-throated swift	<i>Aeronautes saxatalis</i>	Fly over
Vaux's swift	<i>Zenaida macroura</i>	Fly over
Anna's hummingbird	<i>Chaetura vauxi</i>	Canal and east parking area
Black-chinned hummingbird	<i>Calypte anna</i>	Canal
Belted kingfisher	<i>Archilochus alexandri</i>	Canal
Downy woodpecker	<i>Picoides pubescens</i>	East parking area
Nuttall's woodpecker	<i>Picoides nuttallii</i>	East parking area
Northern flicker	<i>Colaptes auratus</i>	Laydown areas and pipeline route
Pacific-slope flycatcher	<i>Empidonax difficilis</i>	Canal setback
Western wood-pewee	<i>Contopus sordidulus</i>	Canal setback
Black phoebe	<i>Sayornis nigricans</i>	Canal
Western kingbird	<i>Tyrannus verticalis</i>	Canal, laydown areas, and pipeline route
Cassin's vireo	<i>Lanius ludovicianus</i>	Canal setback
Loggerhead shrike	<i>Vireo cassinii</i>	Pipeline route
Western scrub-jay	<i>Aphelocoma californica</i>	East parking area and pipeline route
American crow	<i>Corvus brachyrhynchos</i>	Laydown areas and pipeline route
Common raven	<i>Corvus corax</i>	Laydown areas and pipeline route
Horned lark	<i>Eremophila alpestris</i>	Laydown areas and pipeline route
Purple martin	<i>Progne subis</i>	Pipeline route
Tree swallow	<i>Tachycineta bicolor</i>	Pipeline route
Northern rough-winged swallow	<i>Stelgidopteryx serripennis</i>	WPCF ponds
Cliff swallow	<i>Petrochelidon pyrrhonota</i>	Fly over
Bank swallow	<i>Riparia riparia</i>	WPCF ponds
Barn swallow	<i>Hirundo rustica</i>	Pipeline route and WPCF ponds, one individual observed dead from Laydown Area E, 2011.
Bushtit	<i>Psaltriparus minimus</i>	Pipeline route and WPCF ponds
Ruby-crowned kinglet	<i>Regulus calendula</i>	East parking area
American robin	<i>Turdus migratorius</i>	Canal and laydown areas
Northern mockingbird	<i>Mimus polyglottos</i>	Laydown areas and pipeline route
European starling ( <i>Exotic</i> )	<i>Sturnus vulgaris</i>	Canal, laydown areas, and pipeline route
American pipit	<i>Anthus rubescens</i>	WPCF ponds and pipeline route
Cedar waxwing	<i>Bombycilla cedrorum</i>	Laydown areas and pipeline route
Orange-crowned warbler	<i>Vermivora celata</i>	East parking area and oaks along entrance road
Nashville warbler	<i>Vermivora ruficapilla</i>	Canal setback
Yellow warbler	<i>Dendroica petichia</i>	East parking area and oaks

## Cumulative Wildlife Species Observed in or Near the LEC Project Area

Common Name	Scientific Name	Comments
Yellow-rumped warbler	<i>Dendroica coronata</i>	Laydown areas and pipeline route
Common yellowthroat	<i>Geothlypis trichas</i>	Canal
Wilson's warbler	<i>Wilsonia pusilla</i>	Canal setback
Western tanager	<i>Piranga ludoviciana</i>	Canal setback and east parking area
Spotted towhee	<i>Pipilo maculatus</i>	Canal setback
Savannah sparrow	<i>Passerculus sandwichensis</i>	Canal and pipeline route
Song sparrow	<i>Melospiza melodia</i>	Canal and pipeline route
Lincoln's sparrow	<i>Melospiza lincolnii</i>	Canal
Golden-crowned sparrow	<i>Zonotrichia atricapilla</i>	Canal and laydown areas
White-crowned sparrow	<i>Zonotrichia leucophrys</i>	Canal and pipeline route
Dark-eyed junco	<i>Junco hyemalis</i>	East parking area
Black-headed grosbeak	<i>Pheucticus melanocephalus</i>	East parking area
Blue grosbeak	<i>Passerina caerulea</i>	Canal, laydown areas, and pipeline route
Red-winged blackbird	<i>Agelaius phoeniceus</i>	Canal
Tricolored blackbird	<i>Agelaius tricolor</i>	Fly over
Brewer's blackbird	<i>Euphagus cyanocephalus</i>	STIG plant and WPCF ponds
Great-tailed grackle	<i>Quiscalus mexicanus</i>	Canal and WPCF ponds
Western Meadowlark	<i>Sturnella neglecta</i>	Pipeline route. One individual observed dead on grill of truck, 11/12/10.
Brown-headed cowbird	<i>Molothrus ater</i>	Canal and WPCF ponds
Bullock's oriole	<i>Icterus bullockii</i>	Laydown areas and Energy Center footprint
Orchard oriole	<i>Icterus spurius</i>	Canal setback
House finch	<i>Carpodacus mexicanus</i>	STIG plant and pipeline route. One individual observed dead near existing STIG plant, April 2011. Numerous nests throughout project spring 2011.
American goldfinch	<i>Carduelis tristis</i>	Canal, laydown areas, and pipeline route
Lesser goldfinch	<i>Carduelis psaltria</i>	Laydown areas
House sparrow ( <i>Exotic</i> )	<i>Passer domesticus</i>	STIG plant and pipeline route. One individual observed dead in existing STIG plant, March and April 2011.
<b>MAMMALS</b>		
Audubon's cottontail	<i>Sylvilagus audubonii</i>	Laydown areas and Energy Center footprint. One individual observed in northern portion of power block April 2011.
California vole	<i>Microtus californicus</i>	Energy Center Footprint and laydown areas. Several individuals killed during clearing and grubbing, August 2010.
Botta's pocket gopher	<i>Thomomys bottae</i>	Dead individual observed near HRSG foundation, Nov. 2010.

**Cumulative Wildlife Species Observed in or Near the LEC Project Area**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Comments</b>
California ground-squirrel	<i>Spermophilus beecheyi</i>	Pipeline route, Energy Center footprint and laydown areas
Dog	<i>Canis familiaris</i>	Two dogs observed in southern section of LEC site, April 2011.
Feral cat	<i>Felis catus</i>	Energy Center Footprint
<b>REPTILES</b>		
Western pond turtle	<i>Actinemys marmorata</i>	Canal and WPCF ponds
Slider	<i>Trachemys scripta</i>	Canal and crossing access road
Common king snake	<i>Lampropeltis getulus</i>	Several caught and relocated during clearing and grubbing, one individual killed, August and October 2010. One individual killed on project to the north, April 2011.
Western skink	<i>Plestiodon (Eumeces) skiltonianus</i>	One individual crushed during clearing and grubbing, August 2010.
Gopher snake	<i>Pituophis melanoleucus</i>	BM captured and relocated one individual Sept. 2010. DB captured and removed from project site, April 2011.
Common garter snake	<i>Thamnophis sirtalis</i>	BM observed one individual near the City of Lodi White Slough Treatment plant, Sept. 2010. One individual killed, April 2011. One individual captured and relocated off site May, 2011.
Southern alligator lizard	<i>Gerrhonotus multicarinatus</i>	Observed during clearing and grubbing, 2010.
Western fence lizard	<i>Sceloporus occidentalis</i>	Laydown area, pipeline route and Energy Center footprint
<b>INVERTEBRATES</b>		
<b>Butterflies</b>		
Cabbage white	<i>Pieris rapae</i>	Pipeline route
Orange sulphur	<i>Colias eurytheme</i>	Pipeline route
Painted lady	<i>Vanessa cardui</i>	Pipeline route
Red admiral	<i>Vanessa atalanta</i>	Pipeline route

\* Indicates new observance or additional information

**Appendix B**  
**Site Photos**

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Photo 1, of southern most portion of LEC site prior to permanent fence installation, 9/15/11.



Photo 2 of southern most portion of LEC project with permanent fence posts in place, 9/15/11.



Photo 3 of southern most portion of LEC project with permanent fence posts in place and Canadian geese flying over, 9/15/11.



Photo 4 of eastern boundary of LEC site as observed, 9/15/11.



Photo 5 of western boundary of LEC site as observed, 9/15/11.



Photo 6 of southern most portion of LEC project with gravel drainage swale installed photo taken facing west, 9/20/11.



Photo 7 water treatment building during construction, 9/20/11.



Photo 8 of southern edge of LEC site with permanent (black) fence posts in place, 9/20/11.



Photo 9, of dead willow prior to removal in Laydown Area E, 9/20/11.



Photo 10 of cooling tower pad just prior to the start of the cooling tower construction, 9/29/11.



Photo 11 of eastern portion of LEC project site, 9/29/11.



Photo 12 of western portion of LEC project site, 9/29/11.

Appendix C  
**Wildlife Observation Forms**

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This page intentionally left blank there were no reported wildlife observations during the month of September 2011.

## Monthly Report of Cultural Resources Monitoring Activities for the Lodi Energy Center; COC CUL-6

**Prepared For:** Sarah Madams, LEC Project Manager  
**Prepared By:** Clint Helton, LEC CRS  
**Reporting For Period:** September 2011

This report covers cultural resources monitoring activities at the Lodi Energy Center (LEC) project for the month of September 2011, as required by Conditions of Certification CUL-6.

### Personnel Active in Cultural Monitoring This Period

Clint Helton was on-call as the Cultural Resources Specialist (CRS) for this month.

### Monitoring and Associated Activities This Period

No cultural resources monitoring occurred.

### Cultural Resources Discoveries This Period

None.

### Anticipated Changes in the Next Period

None.

### Comments, Issues or Concerns

None.

## **Lodi Energy Center (LEC) COC PAL-5; Paleontological Resources Monitoring Report for Construction Activities in September, 2011**

PREPARED FOR: Andrea Greiner, Greiner & Associates  
Sarah Madams, CH2M HILL

PREPARED BY: W. G. Spaulding, Ph.D., Paleontological Resources Specialist (PRS)  
James R. Verhoff, Staff Paleontologist

DATE: October 5, 2011

This report covers paleontological resources monitoring activities at the Lodi Energy Center (LEC) project for the month of September 2011, as required by Conditions of Certification PAL-5.

### **Personnel On-Call for Paleontological Monitoring This Period:**

Jaspal Saini - Paleontological Resources Monitor (PRM)

### **Training Conducted This Month**

All construction personnel receive the CEC approved Paleontological Resources Awareness Module of Worker Environmental Awareness Training prior to working on this project.

### **Monitoring Conducted This Month**

Excavations to depths that may have paleontological potential have largely been concluded as project build-out goes vertical. Because no paleontologically sensitive sediments were affected this last month, no paleontological resources monitoring was conducted.

### **Changes In the Future**

Paleontological resources monitoring has been scaled back because no additional paleontologically sensitive sediment is being affected. The next step is to determine whether any additional deep excavations will occur in the future.

### **Paleontological Discoveries This Month**

No paleontological resources were encountered during this reporting period.

### **Comments, Issues or Concerns**

No issues or concerns were encountered during this period.

Exhibit 9

WEAP Training Sign-In Sheets























Exhibit 10

Construction Safety Reports

# LODI ENERGY CENTER PROJECT

## September 2011 SAFETY SUMMARY

Prepared by J.E.Selvey, LEC Construction Safety Supervisor

**Recordables: 0**

**New Restricted work cases: 0**

**Near Misses; 1**

**First Aids: 0**

**Vehicle Incidents: 2**

### **New hires, Hours, and Training;**

- 230Kv switchyard training: **21 for September** for a total of **84**
- New hire orientations and WAEPs: **76 for September**
- Average workers: **Month of August; 275\***
- Hours worked for **August: 51,121\*** YTD: **August: 329,595\*** Job Start TD: **August: 406,918\***

\* Numbers will be one month behind. Numbers are not available until two weeks into the following month stopping their inclusion in this months report.

### **Findings for September:**

#### **Vehicles:**

- Forklift dropped MCC switch gear in Laydown A. Several factors led to the incident. Lack of understanding of the particular machine's controls, variance from established procedure, load not strapped down, center of gravity not found, JHA not done, and no documentation or work plan for that piece equipment. There is a pending Root Cause Analysis coming from Cupertino who was responsible for moving the equipment. No injuries.
- Transom over SE door of STG enclosure damaged by fork lift. Operator was attempting to set a welding machine "6 pack" when his spotter had to relocate due to the pinch point developing. As the spotter was moving Operator continued to try and set the welder w/o spotter's direction resulting in damage to the transom. No injuries. In response to the incidents a Safety Stand down for all Operators of fork lifts on site with re-training and basic operational procedures reviewed with attention paid to "ownership" by Operator of loads the moment they leave the ground.
- After the Stand Down there were two more instances where something was moved that should have been secured to the mast of the forklift. I spoke with Mac, showed him some pictures, and he immediately went to speak with the Operators.

## **PPE Violations**

- Hearing protection remains a problem in the WTB and STG enclosure
- People incorporating rigging into their fall protection. This is strictly forbidden by manufacturer's recommendations. It was talked about in the Wednesday meetings but I am still finding it here and there.
- "Soft cap welding hoods" are illegal on this job site. It has been an ongoing battle with the PFs and welders to wear hard hat welding hoods. The complaint is that the hard hats inhibit the welder from getting his head close enough to the work. This only works in about 10% of the case. If there is a spot where the soft cap is needed the welder is supposed to get with his foreman and discuss it with them. I don't see this happening although the amount of this particular violation is on the decline.

## **Housekeeping**

- Piles of wood and trash are taking a while to be addressed.
- Aerosol cans continue to be a problem. They are considered hazardous waste and are tripping hazards.
- Lots of drink plastic containers strewn about. They spoke of housekeeping at the Wednesday all hands. There are plenty of trash cans around the site.
- Some access ways becoming hazardous due to material storage. Although the site has a small footprint for the amount of work being done, with just a little thought materials can be stored where they don't represent a hazard
- Large cord from one spider box to another was run down the middle of a catwalk. Spoke with CEI who addressed the problem

## **Site Observances**

- Both the WTB and STG enclosures can be loud and I requested ear plugs be stationed at the entrances to both buildings
- Out houses doors facing into traffic. ( two separate time) Turned them around.
- Newtron's doors to their Conex open into traffic at a narrow spot in the road. Had signs posted on the inside of the doors saying "Danger. Door Opens Into Traffic" and had barricades installed outside swing radius of doors
- Some messy work areas. Had them straightened up
- Had K-Rail installed between road and large Propane tank. Propane is for heating water for Hydro of HRSG
- Platform inside STG enclosure has missing handrails. Had temporary hard barricades installed
- Mess under Condenser of STG. MWs did a good job cleaning it up
- Advocated that when a large area is to be taped off for overhead work that a pedestrian path is needed through the area.
- There are weeds growing right next to a portable transformer at the ARB trailers. Had the weeds removed.
- Acetylene bottle just thrown in a wooden box. Issue wasn't so much the bottle but the attitude that led to it being left in this condition. Asked Mac to get with Supervisor that allowed this to happen. Done; promised it would never happen again.

## Site Observances, cont.

- Reoccurring problem at SE door of the CT enclosure. Cords and electrical spider boxes and transformers making access to this door hazardous. Asked that something more permanent be done. Exact same thing within the STG enclosure; cords, leads, and hoses are ending up under JLG wheels on the concrete. Asked for a more permanent fix here as well.
- Self Retracting Lifelines are not being used as per Manufacture's specs. The cable is being tied off and left out of the SRL. Ropes are needed so the cable can be allowed to coil back up inside when finished with. This prevents the spring from becoming "sprung" and helps prevent corrosion and oxidation of the cable. There are several instances of this.
- Some Assured Grounding Program cord ID color issues. They were taken care of
- Crystalline Silica respiratory protection needs to be stepped up. When I brought it to ARBs Safety Managers the problem was taken care of
- There is a truck parked at night such that it forces people to drive across the "rumble strips" at the entrance of the job. Truck is parked elsewhere now.
- White line in road by the exit from White Slough needs to be re-done. It is faded past seeing.
- We need a barricade to let motorists which road to access the site is available at any given time.
- There is another place that could really benefit from a traffic mirror. Going around the NE corner of the WTB is often times congested
- There are several permanent ladders that comply with OSHA regulations but are not practically safe. There are some ladders 60 or 80 feet off the ground close to handrails that, although the ladder cages begins at 8 feet as per OSHA, you are exposed to a potentially deadly fall before you reach the protection of the cage. This is a design issue that is prevalent in building. I have spoken with NCPA's HS&E Compliance Officer and he promised to look at them with his own crew when construction was done. On the existing plant there are several ladders where the hand rail was raised for added protection and I am confident that the new ladders will be similarly protected.
- There has been a resurgence of questionable rigging practices on the Pipe Rack. Have had to do battle with supervision a couple times to get it fixed. One tried to describe vertical as anything between 90 and 270 degrees; a simple dictionary definition took care of that.
- Along with the above were some hook to hook and hook to chain configurations with chain falls and come-alongs. These were straightened out as well.
- The north side door of the STG enclosure has been closed to pedestrian traffic for a while now due to some wooden stairs that need repair. Although the door has been barricaded several times now people have been going through anyway. I told them to just fix the stairs and be done with it. The stairs were fixed and the problem went away.
- Confined Space" signs are needed on all tank openings. This is an ongoing process.

## **Site Observances, cont.**

- Discussed the use of “softeners” with the IWs who are building the Pipe Rack. There were a couple instances where the wire slings were wrapped around the base of a metal column without them. I examined the slings and did not see any undo signs of stress or fatigue but as a better part of valor got the guys to agree to use the softeners.

## **Positive Observances**

- Site clean-up back in full swing. Site is looking good and with constant attention can stay that way. Good job to all.
- Great job with permanent fall protection on the Mezzanine deck.
- Even with the decrease of working space, the increase of work pace, and the constantly changing topography the site is maintaining its high level of compliance and good attitudes.
- People are continually trying to be pro-active about safety

## **Environmental/Emergency Response;**

- Barrels in the SSA have filled quickly with oily rags. All labels are properly filled out. Cupertino is calling for a barrel pick up. SSA is clean and orderly.
- No new animal interactions
- Woodbridge FD came out 9-8-11, walked the site and reviewed signage on top of the HRSG for rescue access points. They were satisfied with the results of their walk.
- Paso Robles Tank (PRT) confined space entries being included in daily call to FD.
- I have a meeting scheduled for the first week of October to review entry and working protocols for the PRT painters coating the inside of the tanks.

**Monthly CEC Project Workers Safety Report****Project:** Lodi Energy Center 08-AFC-10**Report Period:** September 2011**Prepared by Inspector of Record:** Taner Pamuk

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**1. Executive Summary of the Workers Safety Management**

- ❖ Health and Safety Committee meetings continued to be held, as a minimum, once a week during this month
- ❖ The safety department of contractor ARB continued informing the Fire Department about the nature of confined space works and high angle works via phone as part of emergency readiness and preparation
- ❖ Two New contractors were onsite. Paso Robles Tank Inc. and SPX/Marley Cooling Tower Company. The Project Owner (NCPA) and project management/design team (WP) safety personnel performed safety audits / inspections to ensure that the new contractors were in compliance with OSHA requirements on a daily basis
- ❖ The CBO representative performed walk down inspections with LEC Project safety personnel. Issues that were observed during these walk-downs were documented by the LEC Project safety personnel and correction follow-up was done accordingly

**2. Field Condition and Observations**

The Project Owner (NCPA) and project management/design team (WP) were emphasizing importance of safety to the new (2) contractors (separate than the contractor ARB) and inspecting their works regarding worker safety in a pro-active way.

The contractor ARB and its subcontractors continued to maintain well established safety with facing and challenging day to day safety issues. Corrective action measures were taken as the concerns arose and/or were discovered. One of the critical issue of this month was equipment related incidents resulting in damage to properties. Please refer to Project Owner's safety and incident reports for detailed information of the incidents. In order to reduce and mitigate the incidents, retraining sessions were provided to forklift operators.

There were some concerns over indoor work areas (STG enclosure and Water Treatment Building) regarding created noise from work activities and hearing protection. The personnel engaged with work in noisy areas were commonly using hearing protection; signs were posted inside the structures as a reminder to employees that hearing protection was required in those locations.

Additional confined work areas were noted on the water tanks as the project work progressed and new structures were assembled. The LEC Project safety personnel were diligent attention and performed follow-ups (inspections) on work inside any confined space area. The classifications were made as "permit or non-permit required" confined space depending on structure and work performed inside the areas as the work progressed. The Project Owner (NCPA) and project management/design team (WP) were also being pro-active and communicating with one of the new contractor (PRT) building tanks regarding confined space work activities. The contractor (PRT) will perform painting inside the tanks. The Project Owner (NCPA) and project management/design team (WP) safety personnel reviewed the MSDS for the paint and were informing the contractor regarding PPE and explosion proof lighting during painting operations (8 CCR 2540.3) inside the tank.

### **2.1. Job Safety Analyses**

There were some issued that arose affiliated with JHA. One of the subcontractors (Cupertino) was performing JHA's on a weekly basis and employees were re-signing it on a daily basis. It was also noted that the JHA's were carbon copied. This item was addressed and corrective measures would be taken as affectively.

### **2.2. Safety Inspections**

- ❖ NCPA/WP safety manager performed daily site inspections and a follow-up was made by NCPA/WP safety manager to ensure and verify that unsafe items were closed
- ❖ NCPA/WP safety manager performed safety inspections and random checks on site to ensure that ARB is in compliance with LORS and maintaining a safe site for its workforce
- ❖ Contractor ARB performed interval work location safety inspections involving its subcontractors
- ❖ Contractor ARB performed interval safety walk-downs with work crews to improve and enforce worker safety

**3. Observed Unsafe Conditions and Corrective Actions Taken**

	<p><b>Correction Required</b>          Fire Watch / Fire Prevention: Observed welding operation for one of the tanks under construction. Welder was inside the tank and sparks were falling outside where hoses and cords existed. Noted that outer shield (sheathing) of electrical cord was burned</p> <p><b>Standard</b>          29 CFR 1910.252(a)(2)(i)&amp;(iii) &amp; 305(a)(2)(x)</p> <p><b>Corrective Action Requested</b>          Fire Watch &amp; Replace / remove damaged extension cord          *Contractor PRT          RESOLVED</p>
	<p><b>Correction Required</b>          Observed employees using a man-lift on an unlevelled surface and one of the tires was off the ground</p> <p><b>Standard</b>          8 CCR 3645 (b)          Against manufacturer recommendations</p> <p><b>Corrective Action Requested</b>          Reposition the equipment so that it will balance / level itself          Consider leveling the area          RESOLVED</p>
	<p><b>Correction Required</b>          Noted that a trailer office was set by the North access road of the existing plant. The doors of the trailer open through the road</p> <p><b>Standard</b>          General Duty Clause          8 CCR 3227 (a)(1)          Title 24, Part 2, Section 2-3302(k).</p> <p><b>Corrective Action Requested</b>          Arrange physical barriers to protect personnel from vehicle traffic          RESOLVED</p>

	<p><b>Correction Required</b> Observed access / egress issue: rebar workers were assembling a foundation rebar surrounded with formwork</p> <p><b>Standard</b> 8 CCR 1629 (a)(3)</p> <p><b>Corrective Action Requested</b> Arrange access / egress to work area to avoid employees climbing on and off the formwork RESOLVED</p>
	<p><b>Correction Required</b> Risk of fall / leading edge</p> <p><b>Standard</b> 8 CCR 1670 (a) 29 CFR 1926.501 (b)</p> <p><b>Corrective Action Requested</b> Install guardrail RESOLVED</p>
	<p><b>Correction Required</b> Observed housekeeping issues</p> <p><b>Standard</b> 8 CCR 1513</p> <p><b>Corrective Action Requested</b> Perform housekeeping RESOLVED</p>

	<p><b>Correction Required</b> Observed a propane tank (loaded) was located in an area where equipment movement was constant</p> <p><b>Standard</b> General Duty Clause 29 CFR 1910.110(d)(10)</p> <p><b>Corrective Action Requested</b> Barricade the propane tank</p> <p>RESOLVED</p>
	<p><b>Correction Required</b> Observed that an acetylene bottle was not secured properly</p> <p><b>Standard</b> 8 CCR 1740 (c)</p> <p><b>Corrective Action Requested</b> Secure the acetylene bottle in a safe location</p> <p>RESOLVED</p>
	<p><b>Correction Required</b> Observed that weeds were grown around a electrical</p> <p><b>Standard</b> 29 CFR 1926.151(c)(3)</p> <p><b>Corrective Action Requested</b> Cut down the weeds</p> <p>RESOLVED</p>

	<p><b>Correction Required</b> Observed different color coding on extension cords</p> <p><b>Standard</b> 8 CCR 2405.4 (d)</p> <p><b>Corrective Action Requested</b> Ensure assured grounding program Perform interval inspections of all electrical tools and cords RESOLVED</p>
	<p><b>Correction Required</b> Observed an empty fire extinguisher</p> <p><b>Standard</b> 8 CCR 6151 (c)(4) &amp; (e)(1)</p> <p><b>Corrective Action Requested</b> Ensure the working conditions of fire extinguisher Perform interval inspections Service the fire extinguisher RESOLVED</p>
	<p><b>Correction Required</b> Observed electrical cords exposed to physical damages – a manlift was operating in the area and would damage the cords</p> <p><b>Standard</b> 29 CFR 1910.305(a)(2)(x)</p> <p><b>Corrective Action Requested</b> Protect cord receiving damages from vehicle movement and / or Re-route cords to avoid damages RESOLVED – Repetitive item *Agreed on re-routing cords</p>

**4. Positive Observations**



Electrical cords were lifted above ground to avoid tripping hazards and protect the cords getting damages from scissor lifts

Plastic holders were used to hang the cords.

Temporary Light bulbs were soon installed in the area (Water Treatment Building) to illuminate the work areas



Positive impression with well performed housekeeping

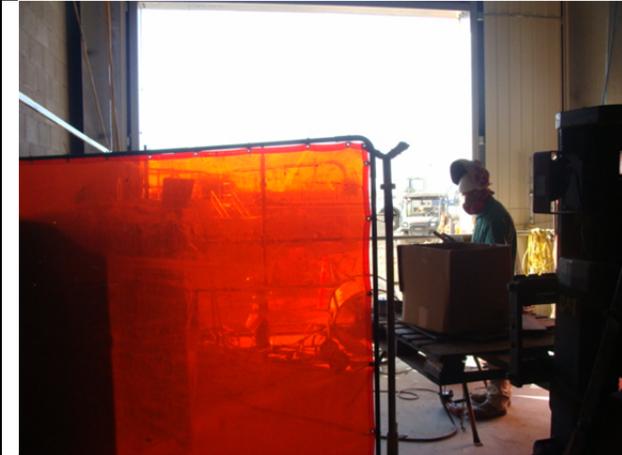
Contractor ARB and its subcontractor daily challenges housekeeping issues

A crew was assigned to perform housekeeping among the site to keep the site neat and clean



Guarded leading edges and open holes on the second floor deck of the Water Treatment Building

Employee, working in the area, was wearing required PPE for his assigned task



A welder was observed working indoor where other craftsmen were working.

- Welding screens were place to protect others
- Welder was wearing all required PPE for his task including respiratory protection
- Area was ventilated

No.	Date	Description of area of work:	Open Item(s)	Signed off	CBO Approval	Open Item
1	09/27/10	HRSO Duct Bank crossing (north)	Need listing for couplers	09/30/10	Lowell Brown	
2	09/30/10	HRSO Duct Bank crossing (Middle)	N/A	10/04/10	Lowell Brown	
3	10/06/10	HRSO Duct Bank crossing ( South)	N/A	10/07/10	Lowell Brown	
4	10/14/10	HRSO Ground Grid	CEMS Grounding, Lightning c/o stack	10/14/10	Lowell Brown	Lightning
5	10/21/10	CTG Ground Grid	N/A	10/21/10	Lowell Brown	
6	11/01/10	HRSO Bottom Mat, bolts & drains	Rebar Mat laps, repair pipe wrap	11/01/10	Lowell Brown	
7	11/04/10	HRSO Drain Ductile Iron Top out	Top out O.K.	11/04/10	Lowell Brown	
8	11/04/10	HRSO Top Mat & Repairs	Rebar, Bolts, Pipe Wrap finished	11/04/10	Lowell Brown	
9	11/10/10	CTG Foundation Bottom Mat	Progress O.K., Need Conduits & Pipe	11/10/10	Lowell Brown	
10	11/10/10	Site Temporary Facilities	Provide approved plans for Inspection	11/10/10	Lowell Brown	
11	11/12/10	Firewall Ftg, Rebar & Grounds	Rebar & Grounds	11/12/10	Lowell Brown	
12	11/22/10	Fire Wall Rebar	Minor Items to be confirmed by Spec.	11/22/10	Lowell Brown	
13	11/24/10	CT Drains (3) Top out Test	O.K., pipe test X 3	11/24/10	Lowell Brown	
14	12/10/10	Fire Line Tie-in Spool	Hydrotest to 200 psi / 2hrs, o.k.,	12/10/10	Lowell Brown	
15	12/10/201	CTG Foundation Top Mat, Bolts, conduits & grnd	See 14 item corr. Notice	12/14/10	Lowell Brown	
16	12/10/10	STIG Cooling Tower Fnd, & Chem Skids	Rebar & bolts o.k.	12/10/10	Lowell Brown	
17	12/12/10	Trailer reinspection for ARB	O.K.	12/12/10	Lowell Brown	
18	12/14/10	CTG Foundation Reinspection	Rebar corrections completed.	12/14/10	Lowell Brown	
19	12/22/10	Cooling Tower Sump Rebar & Grnds	Rebar & grnds o.k.	12/22/10	Lowell Brown	
20	12/22/10	CTG Pedestal Rebar & grnds	See 3 item corr. Notice	12/23/10	Lowell Brown	
21	12/23/10	CTG Pedestal Rebar & grnds Reinspection	Rebar O.K.,	12/23/10	Lowell Brown	
22	01/07/11	Cooling Tower Sump Walls (partial)	Rebar O.K.,	01/07/11	Lowell Brown	
23	01/07/11	Worley Parsons Construction Site Trailer	See 5 Item Correction Notice			
24	01/12/11	CTG Pedestals Rebar and Plates	See 11 item Correction Notice	01/14/11	Lowell Brown	
25	01/14/11	Reinsp. Pedestals and Plates	Items corrected, O.K.	01/14/11	Lowell Brown	

No.	Date	Description of area of work:	Open Item(s)	Signed off	CBO Approval	Open Item
26	01/18/11	Cooling Tower Slab on grade rebar & Water Stop	See (2) item Correction Notice	01/20/11	Lowell Brown	
27	01/20/11	Reinspect C.T. /SOG, Rebar & Water Stop	Corrections complete, O.K.	01/20/11	Lowell Brown	
28	01/25/11	Gas Compressor Foundation Rebar	Rebar O.K.	01/25/11	Lowell Brown	
29	01/25/11	Oil/Water Sep. Fdn Rebar, bolts & C.T. Walls	Rebar/bolts OWS, rebar O.K. CT Walls	01/28/11	Lowell Brown	
30	02/04/11	STIG Gas Compressor & C.T. Pads Pipe supp.	Rebar, grounds and bolts O.K.	02/04/11	Lowell Brown	
31	02/16/11	Cooling Tower Sump south wall & Lube Oil Curb	Rebar and waterstop O.K.,	02/16/11	Lowell Brown	
32	02/23/11	STG Foundation Rebar, Bolts and Grounds	See (4) item correction list	02/28/11	Lowell Brown	
33	02/28/11	STG Fnd reinspect Rebar, Bolts and Grounds	Rebar, bolts & grounds O.K.	02/28/11	Lowell Brown	
34	03/08/11	Exhaust Outlet Foundation	Rebar /bolts O.K.	03/08/11	Lowell Brown	
35	03/09/11	Blow Down Slump	Rebar / waterstop O.K.	03/09/11	Lowell Brown	
36	03/14/11	Cooling Tower East wall	Rebar waterstop. O.K.	03/11/11	Lowell Brown	
37	03/14/11	CT GST Rebar and Waterstop	Rebar and waterstop O.K.	03/13/11	Lowell Brown	
38	03/16/11	Pump Chamber Cooling Tower	Rebar / clearance / waterstop. O.K.	03/16/11	Kevin Dumford	
39	03/18/11	Cooling Tower Basin Pump	Rebar /clearance/waterstop. O.K.	03/18/11	Kevin Dumford	
40	03/18/11	Waste Water Collection Slump matt	Rebar/waterstop O.K.	03/18/11	Kevin Dumford	
41	03/22/11	STG Condenser Pedestals	Corrections.	03/28/11	Lowell Brown	
42	03/22/11	HRSR Roto Air Cooler Pedestals	Corrections.	03/31/11	Lowell Brown	
43	03/25/11	STG Condenser Pedestals	Corrections.	03/28/11	Kevin Dumford	
44	03/28/11	STG Condenser Pedestals	Rebar Corrections complete O.K.	03/28/11	Kevin Dumford	
45	03/30/11	HRSR Roto Air Cooler Pedestals	Rebar / clearance	03/31/11	Kevin Dumford	
46	03/30/11	Cooling Tower slab center section.	Rebar/waterstop/clearance. O.K.	03/30/11	Kevin Dumford	
47	03/30/11	CT Gen. step up foundation pedestals	Rebar / clearance. O.K.	03/31/11	Kevin Dumford	
48	04/05/11	HRSR utility bridge foundation east side.	Rebar/ clearance. O.K.	04/05/11	Kevin Dumford	
49	04/05/11	CT Gen. step up walls 3ft lift.	Rebar/waterstop/clearance. O.K.	04/06/11	Kevin Dumford	
50	04/05/11	West side HRSR utility bridge foundation.	Rebar/clearance. O.K.	04/06/11	Kevin Dumford	

No.	Date	Description of area of work:	Open Item(s)	Signed off	CBO Approval	Open Item
51	04/05/11	Cooling tower walls (middle).	corrections	04/07/11	Kevin Dumford	
52	04/07/11	Cooling tower walls (middle).	Rebar/waterstop/clearance. O.K.	04/07/11	Kevin Dumford	
53	04/07/11	Pipping support cooling tower.	Rebar/ bolts. O.K.	04/07/11	Kevin Dumford	
54	04/11/11	Utility bridge (HRSG) west side.	Rebar/clearance. O.K.	04/07/11	Kevin Dumford	
55	04/12/11	Waste water collection sump walls.	Rebar/clearance/waterstop. O.K.	04/12/11	Kevin Dumford	
56	04/12/11	Top of pump chamber cooling tower.	Rebar/clearance. O.K.	04/12/11	Kevin Dumford	
57	04/12/11	Cooling tower pipe supports south of C/T.	Rebar. O.K.	04/13/11	Kevin Dumford	
58	04/14/11	Duct bank at cooling tower to water treatment.	rebar (roadway) and conduit.	04/14/11	Kevin Dumford	
59	04/15/11	HRSG power block.	Rebar/clearance.	04/15/11	Kevin Dumford	
60	04/19/11	STG perimeter foundation.	missing drains correction.	04/21/11	Kevin Dumford	
61	04/20/11	HRSG power block columns.	Rebar/clearance. O.K.	04/20/11	Kevin Dumford	
62	04/21/11	STG perimeter foundation.	Rebar/clearance added drains.	04/21/11	Kevin Dumford	
63	04/25/11	CT Gen step up (blast) walls.	Rebar/clearance. O.K.	04/27/11	Kevin Dumford	
64	04/28/11	Utility bridge (HRSG) foundation F-7 F-8.	Rebar/clearance. O.K.	04/28/11	Kevin Dumford	
65	04/28/11	PDC "1" foundation.	Rebar/clearance. O.K.	04/28/11	Kevin Dumford	
66	05/03/11	PDC "1" columns.	Rebar/clearance. O.K.	05/04/11	Kevin Dumford	
67	05/05/11	Utility bridge HRSG columns	Rebar/clearance. O.K.	05/05/11	Kevin Dumford	
68	05/06/11	ISO phase bus duct	Rebar/clearance. O.K.	05/10/11	Kevin Dumford	
69	05/06/11	CT electrical platform foundation	Rebar/clearance. O.K.	05/10/11	Kevin Dumford	
70	05/10/11	North boiler feedwater foundation	Rebar/clearance. O.K.	05/10/11	Kevin Dumford	
71	05/11/11	South boiler feedwater foundation	Rebar/clearance. O.K.	05/11/11	Kevin Dumford	
72	05/11/11	HRSG utility bridge F-5 & F-6	Rebar/clearance. O.K.	05/11/11	Kevin Dumford	
73	05/11/11	STG second lift	Rebar/clearance. O.K.	05/12/11	Kevin Dumford	
74	05/11/11	Switchyard foundation F-1,F-2,F-3,F-4 & F-12	Rebar/clearance. O.K.	05/13/11	Kevin Dumford	
75	5/12/20	HRSG utility bridge pedestals	Rebar/clearance. O.K.	05/13/11	Kevin Dumford	

No.	Date	Description of area of work:	Open Item(s)	Signed off	CBO Approval	Open Item
76	05/13/11	CT water drain tank foundation.	Rebar/clearance. O.K.	05/13/11	Kevin Dumford	
77	05/16/11	Circuit breaker foundation switchyard.	Rebar/clearance. O.K.	05/17/11	Kevin Dumford	
78	05/17/11	Temp pipe supports.	Rebar. O.K.	05/17/11	Kevin Dumford	
79	05/17/11	Switchyard pole supports F-1,F-2,F-3 & F-4.	Rebar/clearance. O.K.	05/20/11	Kevin Dumford	
80	05/17/11	Switchyard transmission foundations F-7 & F-8.	Rebar/clearance. O.K.	05/20/11	Kevin Dumford	
81	05/23/11	Circuit breaker support foundation.	Rebar/clearance. O.K.	05/24/11	Kevin Dumford	
82	05/23/11	Electrical equipment foundation.	Rebar/clearance. O.K.	05/24/11	Kevin Dumford	
83	05/23/11	Platforms & stair foundations.	Rebar/clearance. O.K.	05/24/11	Kevin Dumford	
84	05/23/11	Switchyard pole supports F-5,F-6 & F-7.	Rebar/clearance. O.K.	05/24/11	Kevin Dumford	
85	05/25/11	Vortey breakers cooling tower.	Rebar/clearance. O.K.	05/26/11	Kevin Dumford	
86	05/25/11	Circuit breaker pedestals	Rebar/clearance. O.K.	05/26/11	Kevin Dumford	
87	05/25/11	10" curb power block.	Rebar/clearance. O.K.	05/26/11	Kevin Dumford	
88	05/25/11	Boiler fedwater equipment pad.	Rebar/clearance. O.K.	05/26/11	Kevin Dumford	
89	05/31/11	Cooling tower pump platform foundation.	Rebar not ready	06/06/11	Kevin Dumford	
90	06/06/11	STIG gas compressor pipe supports.	Rebat /clearance. O.K.	06/06/11	Kevin Dumford	
91	06/06/11	Cooling tower pump platform foundation.	Rebar/clearance. O.K.	06/06/11	Kevin Dumford	
92	06/06/11	Fuel gas equipment foundations.	Rebar/clearance. O.K.	06/06/11	Kevin Dumford	
93	06/08/11	Water seperator slab.	Rebar/clearance. O.K.	06/08/11	Kevin Dumford	
94	06/10/11	STIG gas compressor pipe supports pedestals.	Rebar/clearance. O.K.	06/10/11	Kevin Dumford	
95	06/13/11	STG third left.	Rebar/clearance. O.K.	06/15/11	Kevin Dumford	
96	06/14/11	Fuel gas equipment foundations pedestals.	Rebar/clearance. O.K.	06/15/11	Kevin Dumford	
97	06/14/11	Cooling tower pump foundation pedestals.	Rebar/clearance. O.K.	06/15/11	Kevin Dumford	
98	06/14/11	Fuel Gas heater	Rebar/clearance. O.K.	06/15/11	Kevin Dumford	
99	06/16/11	Control Oil skid	Rebar/clearance. O.K.	06/17/11	Kevin Dumford	
100	06/21/11	Transmission foundation F9	Rebar/clearance. O.K.	06/21/11	Kevin Dumford	

No.	Date	Description of area of work:	Open Item(s)	Signed off	CBO Approval	Open Item
101	06/21/11	Clarified Water tank Foundation.	Rebar/clearance. O.K.	06/21/11	Kevin Dumford	
102	06/23/11	Transmission Foundation F 11.	Rebar/clearance. O.K.	06/23/11	Kevin Dumford	
103	06/23/11	Water Treatment building foundation.	Rebar/clearance and waterstop. O.K.	06/23/11	Kevin Dumford	
104	06/24/11	STG pedestal P.	Rebar/clearance. O.K.	06/23/11	Kevin Dumford	
105	06/24/11	Air Compressor pipe rack foundation.	Rebar/clearance. O.K.	06/24/11	Kevin Dumford	
106	06/24/11	Transmission Foundation F 10, F 12.	Rebar/clearance. O.K.	06/24/11	Kevin Dumford	
107	06/28/11	Cooling Tower stair pad.	Rebar/clearance. O.K.	06/28/11	Kevin Dumford	
108	06/29/11	STG pedestal.	Rebar/clearance. O.K.	06/29/11	Kevin Dumford	
109	06/29/11	Wash trailer foundation.	Rebar/clearance. O.K.	06/29/11	Kevin Dumford	
110	06/30/11	South stair landing CTG black.	Rebar/clearance. O.K.	06/30/11	Kevin Dumford	
111	06/30/11	HRSB bridge stair landing	Rebar/clearance. O.K.	06/30/11	Kevin Dumford	
112	06/30/11	STG pipe rack F8, F7.	Rebar/clearance. O.K.	06/30/11	Kevin Dumford	
113	07/01/11	Transmission foundation F1.	Rebar/clearance. O.K.	07/01/11	Kevin Dumford	
114	07/05/11	SUS transformer foundation.	Rebar/clearance. O.K.	07/05/11	Kevin Dumford	
115	07/08/11	Lower slab sump chemical feed unloading.	Rebar/clearance. O.K.	07/08/11	Kevin Dumford	
116	07/08/11	Water treatment curbs & equipment pads.	Rebar/clearance. O.K.	07/08/11	Kevin Dumford	
117	07/08/11	Transmission foundation F4.	Not Ready	07/08/11	Kevin Dumford	
118	07/08/11	STG utility bridge foundation pipe rack F4.	Rebar/clearance. O.K.	07/08/11	Kevin Dumford	
119	07/12/11	Water treatment, remainder of equipment pads	Rebar/clearance. O.K.	07/12/11	Kevin Dumford	
120	07/12/11	Chemical feed unloading bottom slab only.	Rebar/ water stop/clearance. O.K.	07/12/11	Kevin Dumford	
121	07/14/11	HRSB power block stair landing.	Rebar/clearance. O.K.	07/14/11	Kevin Dumford	
122	07/14/11	Transformer foundation CTG PDC2.	Rebar/clearance. O.K.	07/14/11	Kevin Dumford	
123	07/15/11	STG utility bridge foundation F2,F5.	Rebar/clearance. O.K.	07/15/11	Kevin Dumford	
124	07/15/11	Transmission foundation F4.	Rebar/clearance. O.K.	07/15/11	Kevin Dumford	
125	07/18/11	Chemical feed unloading rebar wallonly.	Rebar.O.K.	07/18/11	Kevin Dumford	

No.	Date	Description of area of work:	Open Item(s)	Signed off	CBO Approval	Open Item
126	07/20/11	CTG PDC 2 transformar foundation.	Rebar/clearance. O.K.	07/20/11	Kevin Dumford	
127	07/20/11	Service water tank foundation.	Rebar/clearance. O.K.	07/20/11	Kevin Dumford	
128	07/20/11	STG untility bridge F6 pedestal.	Rebar/clearance. O.K.	07/20/11	Kevin Dumford	
129	07/20/11	Transmission foundation F4.	Rebar/clearance. O.K.	07/20/11	Kevin Dumford	
130	07/20/11	Transmission foundation F3.	Rebar/clearance. O.K.	07/20/11	Kevin Dumford	
131	07/20/11	STG untility bridge foundation F1.	Rebar/clearance. O.K.	07/20/11	Kevin Dumford	
132	07/20/11	Magnesium Oxide,Hydrated tank foundation.	Rebar/clearance. O.K.	07/20/11	Kevin Dumford	
133	07/20/11	Chemical feed unloading with forms up.	Rebar/clearance. O.K.	07/20/11	Kevin Dumford	
134	07/25/11	Transmission foundation F5.	Rebar/clearance. O.K.	07/25/11	Kevin Dumford	
135	07/27/11	Steam drain tank foundation.	Rebar/clearance. O.K.	07/27/11	Kevin Dumford	
136	07/27/11	STG untility bridge F3 foundation.	Rebar/clearance. O.K.	07/27/11	Kevin Dumford	
137	07/28/11	STG untility bridge F10 F 11 foundation.	Rebar/clearance. O.K.	07/28/11	Kevin Dumford	
138	07/28/11	Vacuum pump foundation.	Rebar/clearance. O.K.	07/28/11	Kevin Dumford	
139	07/28/11	STG untility bridge F2 foundation.	Rebar/clearance. O.K.	07/28/11	Kevin Dumford	
140	08/01/11	Ammonia line test 2"	Rebar/clearance. O.K.	08/01/11	Kevin Dumford	
141	08/02/11	STG untility bridge foundation F 16	Rebar/clearance. O.K.	08/02/11	Kevin Dumford	
142	08/02/11	STG untility bridge foundation F 12	Rebar/clearance. O.K.	08/02/11	Kevin Dumford	
143	08/02/11	STG untility bridge foundation F 14 F 15	Rebar/clearance. O.K.	08/02/11	Kevin Dumford	
144	08/02/11	STG untility bridge foundation F 13	Rebar/clearance. O.K.	08/02/11	Kevin Dumford	
145	08/02/11	STG untility bridge foundation pedestals F 10 F 11	Rebar/clearance. O.K.	08/02/11	Kevin Dumford	
146	08/02/11	STG untility bridge foundation F 9	Rebar/clearance. O.K.	08/02/11	Kevin Dumford	
147	08/04/11	STG step up transformer	need rebar	08/04/11	Kevin Dumford	
148	08/09/11	STG step up transformer	Rebar/clearance and water stop. O.K.	08/09/11	Kevin Dumford	
149	08/11/11	Pad in switch yard.	Rebar/clearance. O.K.	08/11/11	Kevin Dumford	
150	08/11/11	STG untility bridge foundation F 12 F 14 F 15 F 16.	Rebar/clearance. O.K.	08/11/11	Kevin Dumford	

No.	Date	Description of area of work:	Open Item(s)	Signed off	CBO Approval	Open Item
151	08/11/11	STG utility bridge foundation F 9 pedestal.	Rebar/clearance. O.K.	08/11/11	Kevin Dumford	
152	08/11/11	STG utility bridge foundation F 11 pedestal.	Rebar/clearance. O.K.	08/11/11	Kevin Dumford	
153	08/17/11	Aux Boiler Foundation	Rebar, conduits & Grounds O.K.	08/17/11	Lowell Brown	
154	08/17/11	STG Pedestal Foundation Rebar	Rebar, bolts & grounds O.K.	08/17/11	Lowell Brown	
155	08/17/11	STG Pipe Rack F/7 & F/8 Foundation Pedestals	Rebar & bolts O.K.	08/17/11	Lowell Brown	
156	08/17/11	STG (south) Utility Bridge Foundation Pedestals F/7	Rebar & bolts O.K.	08/17/11	Lowell Brown	
157	08/18/11	STG PDC Pipe Support Foundations	Revised from (3) supports to one slab	08/18/11	Lowell Brown	
158	08/19/11	Auxiliary Boiler Pedestal Rebar & Bolts	Rebar & bolts O.K.	08/19/11	Lowell Brown	
159	08/22/11	Pipe Support Foundation Adj. to STG PDC	Rebar O.K., per RFI 1487	08/22/11	Lowell Brown	
160	08/23/11	STG GSU Fire Wall rebar & waterstop	Rebar & waterstop O.K.	08/23/11	Lowell Brown	
161	08/23/11	Fire Pump House Foundation	Rebar and Sleeve O.K.	08/23/11	Lowell Brown	
162	08/23/11	STG Perimeter Foundation, Interior Equipment Pad	Rebar O.K.	08/23/11	Lowell Brown	
163	08/25/11	WTB Bus Support Foundations south side (2)	Rebar O.K.	08/25/11	Lowell Brown	
164	08/25/11	Aux Boiler Chemical Feed Foundation Rebar	Rebar, grounds O.K.	08/25/11	Lowell Brown	
165	08/26/11	Air Receiver Dryer & Aftercooler Foundation	Rebar & grounds O.K.	08/26/11	Lowell Brown	
166	08/30/11	SUS Transformers WTB (south) (2)	Rebar, bolts & grounds O.K.	08/30/11	Lowell Brown	
167	08/31/11	Clarified Water Pump Foundation	Rebar & Bolts O.K.	08/31/11	Lowell Brown	
168	09/06/11	Holiday Test Ammonia (west of HRSG)	Jeep to 13kV O.K.	09/06/11	Lowell Brown	
169	09/12/11	Cooling Water Pumps Foundation	Rebar & grounds O.K.	09/12/11	Lowell Brown	
170	09/12/11	Air Receiver Dryer & Aftercooler Pedestals	Rebar O.K.	09/12/11	Lowell Brown	
171	09/13/11	Condensate Polisher Foundations	Rebar O.K.	09/13/11	Lowell Brown	
172	09/14/11	Condensate Extraction Pumps	Rebar O.K.	09/14/11	Lowell Brown	
173	09/14/11	Condensate Polisher Top mat	Rebar O.K.	09/14/11	Lowell Brown	
174	09/14/11	CP Resin Refill Hopper and Storage Tank Fnds.	Rebar (2 Pads) O.K.	09/14/11	Lowell Brown	
175	09/16/11	Transmission Tower Foundation & Grounds	Rebar & grounds O.K.	09/16/11	Lowell Brown	

No.	Date	Description of area of work:	Open Item(s)	Signed off	CBO Approval	Open Item
176	09/19/11	WTB Truck Unloading Pad	Rebar O.K.	09/19/11	Lowell Brown	
177	09/19/11	WTB Raw Water Treatment Foundation	Rebar & grounds O.K.	09/19/11	Lowell Brown	
178	09/21/11	Condensate Extraction Pumps Foundation	Rebar cut to fit, need Engineer's approval			
179	09/21/11	Condensate Feed Water Pumps Pedestals	Rebar O.K.	09/21/11	Lowell Brown	
180	09/21/11	Condensate Polish Resin Hopper & Storage	Rebar O.K.	09/21/11	Lowell Brown	
181	09/23/11	STG Pedestal Extension	Rebar O.K.	09/23/11	Lowell Brown	
182	09/27/11	WTB South Chem. Feed Area Fnd.	Reba & grounds O.K.	09/21/11	Lowell Brown	
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Exhibit 11

Correspondence, Filings, or Permits Issued by Other  
Governmental Agencies

# WELL/PUMP PERMIT

SAN JOAQUIN COUNTY ENVIRONMENTAL HEALTH DEPARTMENT      600 EAST MAIN STREET - STOCKTON CA 95202 - (209) 488-3420  
**NON-REFUNDABLE PERMIT**      **CALL (209) 953-7697 FOR INSPECTIONS**      **EXPIRES 1 YEAR FROM DATE ISSUED**

**JOB ADDRESS** 12745 N. THORNTON RD      **CITY/ZIP** LODI, CA 95242  
**CROSS STREET** HWY 12      **APN** 05513916      **PARCEL SIZE** 160      **LAND USE APPLICATION #** \_\_\_\_\_  
**OWNER NAME** (N & DA) NORTHERN CA. POWER AUTH.      **PHONE** (209) 533-6370  
**OWNER ADDRESS** 12745 N. THORNTON RD.      **CITY/STATE/ZIP** LODI, CA 95242  
**CONTRACTOR** CANEDA & SONS INC.      **PHONE** (209) 532-1136  
**CONTRACTOR ADDRESS** 13760 MOND WAY      **CITY/STATE/ZIP** SONORA, CA 95370  
**SUBCONTRACTOR** \_\_\_\_\_      **PHONE** \_\_\_\_\_  
**SUBCONTRACTOR ADDRESS** \_\_\_\_\_      **CITY/STATE/ZIP** \_\_\_\_\_  
**LICENSE**  C-57     C-61     D-09     Other \_\_\_\_\_      **NUMBER** 425749      **EXPIRATION DATE** 7/31/12

**GEOGRAPHICAL INFORMATION:**    **Coordinates**         **Y** \_\_\_\_\_    **Township** \_\_\_\_\_    **Range** \_\_\_\_\_    **Section** \_\_\_\_\_

**INTENDED USE**     Domestic/Private     Irrigation/Agricultural     Industrial     Water Quality Monitoring     Soil Sampling/Characterization  
 Public Water System  
If different from Owner:      **Water System Name** \_\_\_\_\_      **Contact Name or Phone Number** \_\_\_\_\_

**TYPE OF WORK**     New Well     Replacement Well     Well Alteration/Modification     Other \_\_\_\_\_  
 Monitoring Well(s) \_\_\_\_\_ # of wells     Soil Boring(s) \_\_\_\_\_ # of borings     Geotechnical \_\_\_\_\_ # of borings  
 Out-Of-Service Well     Out-Of-Service Well Renewal     Cross-Connection Repair  
 New Pump     Pump Replacement     Pump Repair     Raise Well Casing

**WELL CONSTRUCTION**  
**Drilling Method**  Mud Rotary     Air Rotary     Auger     Cable Tool     Push Point     Other \_\_\_\_\_  
**Proposed Well**    **Depth** 350 ft    **Excavation** 12-14 in diameter     Open Bottom     Gravel Pack/Gravel Size \_\_\_\_\_ in diameter  
 Conductor Casing 12-14 in diameter / **Conductor Casing Depth** \_\_\_\_\_ ft  
**Well Casing**    **Diameter** \_\_\_\_\_ **Thickness/Gauge/ASTM Sched** \_\_\_\_\_  Steel     Plastic     Stainless Steel     Other \_\_\_\_\_  
**Grout Seal**    **Depth** 300 FT ft     Neat Cement (94 lb bag/5-10 gal water)     Sand Cement \_\_\_\_\_ sack mix/7 gal water  
 Bentonite (20% solids)     Other \_\_\_\_\_  
**Grout Placement Method**  Pumped     Free Fall     Other \_\_\_\_\_     Retardant / Accelerator (name) \_\_\_\_\_

**PEDESTAL**    **Installed By**  Driller     Pump Contractor     Other \_\_\_\_\_  
 Concrete Pedestal    **Dimensions:** **Width** \_\_\_\_\_ ft    **Length** \_\_\_\_\_ ft    **Thick** \_\_\_\_\_ in     Christy Box     Stove Pipe

**PUMP**     Submersible     Turbine     Other \_\_\_\_\_    **HP** 20    **Pump Set** 350 ft    **Standing Water Level** \_\_\_\_\_ ft

I HEREBY CERTIFY THAT I HAVE PREPARED THIS APPLICATION AND THAT THE WORK WILL BE DONE IN ACCORDANCE WITH SAN JOAQUIN COUNTY ORDINANCES, STATE LAWS, AND RULES AND REGULATIONS. I ALSO CERTIFY THAT MY REQUIRED LICENSE IS CURRENT AND ACTIVE WITH THE CALIFORNIA CONTRACTORS STATE LICENSE BOARD AND THAT I AM IN COMPLIANCE WITH ALL WORKERS COMPENSATION LAWS.

**MINIMUM 24 HOUR ADVANCE NOTICE REQUIRED FOR INSPECTIONS**

**SIGNED** Ricky Canedo      **TITLE** President      **DATE** 8/31/2011

SEE ATTACHED DWG.

PAYMENT RECEIVED

SEP - 1 2011

SAN JOAQUIN COUNTY ENVIRONMENTAL HEALTH DEPARTMENT

**DEPARTMENT USE ONLY**

**Application Accepted By** Rode      **Date** 9/1/11      **Area** 4/city      **Employee ID#** 5945  
**Grout Inspection By** \_\_\_\_\_      **Date** \_\_\_\_\_       **SPECIAL Well Permit**  
**Pump Inspection By** \_\_\_\_\_      **Date** \_\_\_\_\_       **WAIVER Received**  
**Soil Boring Inspection By** \_\_\_\_\_      **Date** \_\_\_\_\_      **Constructed Well Depth** \_\_\_\_\_ ft

**COMMENTS** \_\_\_\_\_

PE Codes	SC Info	Received By	Stack# Cash	Amount Remitted	Date	Permit/ Service Request #	Invoice #	Well ID#
4375	180	<i>[Signature]</i>	7/16/11	341	9/1/11	SR0063394		
4380	050	<i>[Signature]</i>		53		SR0063395		

SITE ADDRESS: 12745 N Thornton Rd.

# WELL/PUMP PERMIT

SAN JOAQUIN COUNTY ENVIRONMENTAL HEALTH DEPARTMENT

600 EAST MAIN STREET - STOCKTON CA 95202 - (209) 468-3420

NON-REFUNDABLE PERMIT

CALL (209) 953-7697 FOR INSPECTIONS

EXPIRES 1 YEAR FROM DATE ISSUED

JOB ADDRESS: 12745 N. THORNTON RD CITY/ZIP: LODI CA 95242  
 CROSS STREET: Hwy 12 APN: 05513016 PARCEL SIZE: 160 LAND USE APPLICATION # \_\_\_\_\_  
 OWNER NAME: (NCPA) NORTHERN CA. POWER AUTHORITY PHONE: (209) 333-6370  
 OWNER ADDRESS: 12745 N THORNTON RD. CITY/STATE/ZIP: LODI, CA 95242  
 CONTRACTOR: CANEPA'S SONS INC. PHONE: (209) 532-1136  
 CONTRACTOR ADDRESS: 13760 MONO WAY CITY/STATE/ZIP: SONOMA, CA 95370  
 SUBCONTRACTOR \_\_\_\_\_ PHONE \_\_\_\_\_  
 SUBCONTRACTOR ADDRESS \_\_\_\_\_ CITY/STATE/ZIP \_\_\_\_\_  
 LICENSE:  C-57  C-61  D-09  Other \_\_\_\_\_ NUMBER: 425749 EXPIRATION DATE: 7/31/12

SITE ADDRESS: 12745 N Thornton Rd

GEOGRAPHICAL INFORMATION: Coordinates  X \_\_\_\_\_ Y \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_

INTENDED USE:  Domestic/Private  Irrigation/Agricultural  Industrial  Water Quality Monitoring  Soil Sampling/Characterization  
 Public Water System  
 If different from Owner: \_\_\_\_\_ Water System Name \_\_\_\_\_ Contact Name or Phone Number \_\_\_\_\_

TYPE OF WORK:  New Well  Replacement Well  Well Alteration/Modification  Other \_\_\_\_\_  
 Monitoring Well(s) \_\_\_\_\_ # of wells \_\_\_\_\_  Soil Boring(s) \_\_\_\_\_ # of borings \_\_\_\_\_  Geotechnical \_\_\_\_\_ # of borings \_\_\_\_\_  
 Out-Of-Service Well  Out-Of-Service Well Renewal  Cross-Connection Repair  
 New Pump  Pump Replacement  Pump Repair  Raise Well Casing

WELL CONSTRUCTION  
 Drilling Method:  Mud Rotary  Air Rotary  Auger  Cable Tool  Push Point  Other \_\_\_\_\_  
 Proposed Well Depth: 350 ft Excavation: 12-14 in diameter  Open Bottom  Gravel Pack/Gravel Size \_\_\_\_\_ in diameter  
 Conductor Casing 12-14 in diameter / Conductor Casing Depth \_\_\_\_\_ ft  
 Well Casing Diameter: 6 in Thickness/Gauge/ASTM Sched \_\_\_\_\_  Steel  Plastic  Stainless Steel  Other \_\_\_\_\_  
 Grout Seal Depth: 100 ft  Neat Cement (94 lb bag/5-10 gal water)  Sand Cement \_\_\_\_\_ sack mix/7 gal water  
 Bentonite (20% solids)  Other \_\_\_\_\_  
 Grout Placement Method:  Pumped  Free Fall  Other \_\_\_\_\_  Retardant / Accelerator (name) \_\_\_\_\_

PEDESTAL: Installed By  Driller  Pump Contractor  Other \_\_\_\_\_  
 Concrete Pedestal Dimensions: Width \_\_\_\_\_ ft Length \_\_\_\_\_ ft Thick \_\_\_\_\_ in  Christy Box  Stove Pipe

PUMP:  Submersible  Turbine  Other \_\_\_\_\_ HP: 5-10 Pump Set: 320 ft Standing Water Level \_\_\_\_\_ ft

I HEREBY CERTIFY THAT I HAVE PREPARED THIS APPLICATION AND THAT THE WORK WILL BE DONE IN ACCORDANCE WITH SAN JOAQUIN COUNTY ORDINANCES, STATE LAWS, AND RULES AND REGULATIONS. I ALSO CERTIFY THAT MY REQUIRED LICENSE IS CURRENT AND ACTIVE WITH THE CALIFORNIA CONTRACTORS STATE LICENSE BOARD AND THAT I AM IN COMPLIANCE WITH ALL WORKERS COMPENSATION LAWS.

MINIMUM 24 HOUR ADVANCE NOTICE REQUIRED FOR INSPECTIONS

SIGNED: Rich Conroy TITLE: President DATE: 8/31/2011

SEE ATTACHED DWG.	
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PAYMENT RECEIVED  
 SEP - 1 2011  
 SAN JOAQUIN COUNTY ENVIRONMENTAL HEALTH DEPARTMENT

DEPARTMENT USE ONLY

Application Accepted By: [Signature] Date: 9/1/11 Area: 4/city Employee ID #: 5944  
 Grout Inspection By: \_\_\_\_\_ Date: \_\_\_\_\_  SPECIAL Well Permit  
 Pump Inspection By: \_\_\_\_\_ Date: \_\_\_\_\_  WAIVER Received  
 Soil Boring Inspection By: \_\_\_\_\_ Date: \_\_\_\_\_ Constructed Well Depth \_\_\_\_\_ ft

COMMENTS \_\_\_\_\_

PE Codes	SC Info	Received By	Check# Cash	Amount Remitted	Date	Permit/ Service Request #	Invoice #	Well ID#
4366	180	[Signature]	15/56	341	9/1/11	SR0063392		
4380	250	[Signature]		53 <sup>00</sup>		SR0063393		



# COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS  
P.O. BOX 1810-1810 E. HAZELTON AVENUE  
STOCKTON, CALIFORNIA 95201  
(209) 468-3000  
FAX # (209) 468-9324

Permit No: **PS-1102037**  
Date Issued: 09/13/2011  
Exp. Date: 01/01/2012  
Project No: PWP110005  
Quad: NW

UE/CR/PM NO:30698447

## ENCROACHMENT PERMIT

To: PACIFIC GAS & ELECTRIC - MANTECA  
10901 E. HIGHWAY 120  
MANTECA, CA 95336

### Encroachment Type:

Trench			
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### Location:

N/S OF ARMSTRONG RD. W/O UPRR TRACKS

In compliance with your request of **09/13/2011**, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

**Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way.** All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. **Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.**

### Special Comments:

Traffic Control Per MUTCD****No working in wet weather and/or foggy conditions*****No road closures allowed****
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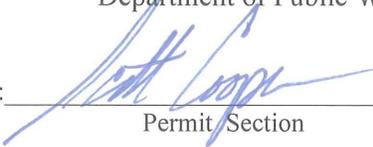
FORMS: 

SS/WW, R-29		
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Est. Permit Fee: \$1,436.00

- WHITE -Permittee
- GOLDENROD -PWD Central File
- YELLOW -Field Inspection
- PINK -Permit Section

THOMAS M. GAU, Director  
Department of Public Works

By:   
Permit Section

## ENCROACHMENT PERMIT

### GENERAL PROVISIONS

1. This permit is issued under and subject to all laws and ordinances of agencies governing the encroachment herein permitted. See the following references:  
STREETS AND HIGHWAYS CODE
  1. Division 1, Chapter 3
  2. Division 2, Chapter 2, Section 942
  3. Division 2, Chapter 4, Section 1126
  4. Division 2, Chapter 6  
SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441; 648, 662, 672, 695, 700, 860, and 892.
2. It is understood and agreed by the Permittee that the doing of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.
3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean a condition as is possible and upon completion of the work granted herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.
4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any injury to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility of such maintenance of the encroachment structure by the County of San Joaquin.
5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Director of Public Works or his representative.
6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway may require, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved by and at the sole expense of the Permittee.
7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.
8. All work shall be planned and carried out so that there will be as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Barricades shall be placed, With approved Signs and lights at light, and flagmen shall be employed, all as may be required by the particular work in progress.
9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to do the work provided for under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold them and each of them harmless for such claim.
10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely Stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surfacing is cut or damaged in the work of placing an encroachment structure, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as It was before the commencement of operations of placing the encroachment structure.
11. Whenever necessary to, secure permission from abutting property owners, such authority must be secured by the Permittee prior to starting work..
12. The future safety and convenience of the traveling public shall be given every consideration in the location and type of construction.

## SPECIAL PROVISIONS

### Winter Weather Utility Work

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1. **SUPERVISION:** The utility company (**permittee**) shall furnish full-time supervision of all work to insure full compliance with the permit provisions.
2. **START OF WORK:** No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.
3. **CLEAN PAVEMENT:** Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.
4. **DAILY RESTORATION:** Private driveways and road intersections shall be restored daily
5. **WEATHER-TIGHT CONDITION:** All trenches shall be filled and compacted, ditches and other drainage facilities regraded and opened, and the entire work area restored to weather-tight condition prior to any rain.

## GENERAL PROVISIONS

### GOVERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD RIGHTS-OF-WAY

#### PUBLIC CONVENIENCE AND SAFETY:

- A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permittee shall notify the known users of the respective thoroughfare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.
  1. Unless otherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.
  2. In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.
    - a. The County of San Joaquin Public Works Department
    - b. The County of San Joaquin Sheriff's Office
    - c. The local postal service
    - d. The local fire district
    - e. The local school district
    - f. The local residents involved
  3. Should hazardous conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.
  4. Lights, signs and barricades shall be furnished, erected and maintained by the Permittee for the adequate warning and convenience of the public, with particular attention to be taken in this regard after dark.
  5. Any excess dirt and/or debris which might be a hazard to either automobile or pedestrian traffic, uncontrollable by lights, signs and barricades, shall be removed from the job site daily.

#### STRUCTURES:

- A. Walls of structures shall be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the minimum structural requirements for concrete pipe placed under County road rights-of-way shall conform to the following American Association of State Highway and Transportation Officials (AASHTO) designations.
  1. For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete pipe conforming to AASHTO Designation M 170M.
  2. For concrete pipe thirty-six inches (36") inside diameter and larger, reinforced concrete pipe conforming to AASHTO designation M 170M Class III.
  3. Plastic pipe conforming to AASHTO Designation M 294.
- B. All concrete pipe joints within County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with section 65-1.06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.
- C. Cast-in-place concrete pipe, vitrified clay pipe, spiral welded steel pipe, or corrugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.
- D. All structures to be buried within the County road rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30") to the centerline of the roadways and twelve inches (12") at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampholes, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustment accordingly.
- E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.
- F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

#### REPAIRS OF THE COUNTY RIGHT-OF-WAY:

- A. All excavations shall be backfilled and compacted immediately after work therein has been completed.
- B. Trenches shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.
  1. Unless otherwise permitted under the Special Provisions, backfill shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire fill within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench Detail.
  2. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one foot where 90% compaction is required, and two feet where 80% compaction is required.
  3. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.
  4. Gravel backfill material shall be utilized only where specifically so stated on the face of the permit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall be not greater than 18" centers and to the full depth of the lift.
  5. All pavements, curbs, gutters, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s), or at other ground(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.
  6. All surfacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.
    1. Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-half (1/2") maximum aggregate, coarse or medium gradation, as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paving asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.
    2. Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.
  7. Before acceptance of repairs to the County road rights-of-way, all unsightly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).
    1. If necessary, County road traveled way and driveway pavements shall be washed with water to remove dirt and dust.
    2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.
  8. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date September 2nd 2010  
 To: San Joaquin County  
 Department of Public Works  
Pacific Gas & Elec G.P. Gas  
 (Applicant Name)  
10901 E. HULLY RD  
 (Mailing Address)  
MANHATTAN CA 95336  
 (City, State, Zip Code)  
209-323-9132  
 (Area Code - Telephone Number)

OFFICE USE ONLY	
JOB #	<u>730052-8</u>
APN	<u><del>30198447</del></u>
EXP. DATE	<u>9/19/11</u> TO <u>11/1/12</u>
VALID	<u>9/19/11</u> TO <u>11/1/12</u>
STREET	<u>ARMSTRONG RD &amp; DEVERIES RD</u>
AREA	<u>2001</u> QUAD <u>MM</u>
TYPE	<u>TRENCHING</u>
FORMS	<u>SS/WD, R09</u>
NOTES	
DRIVEWAYS:	
	*
	*

Sketch (Detailed plans may be submitted)

PM# 30698447

Please see Attached Details  
 Traffic Control Plan Attached

No WORKING IN WET WEATHER CONDITIONS / FOGGY CONDITIONS.

3300'

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the North side of ARMSTRONG Rd approximately 2000 feet/mile of TO DEVERIES RD & then crossing DEVERIES, by performing the following work (description of work):

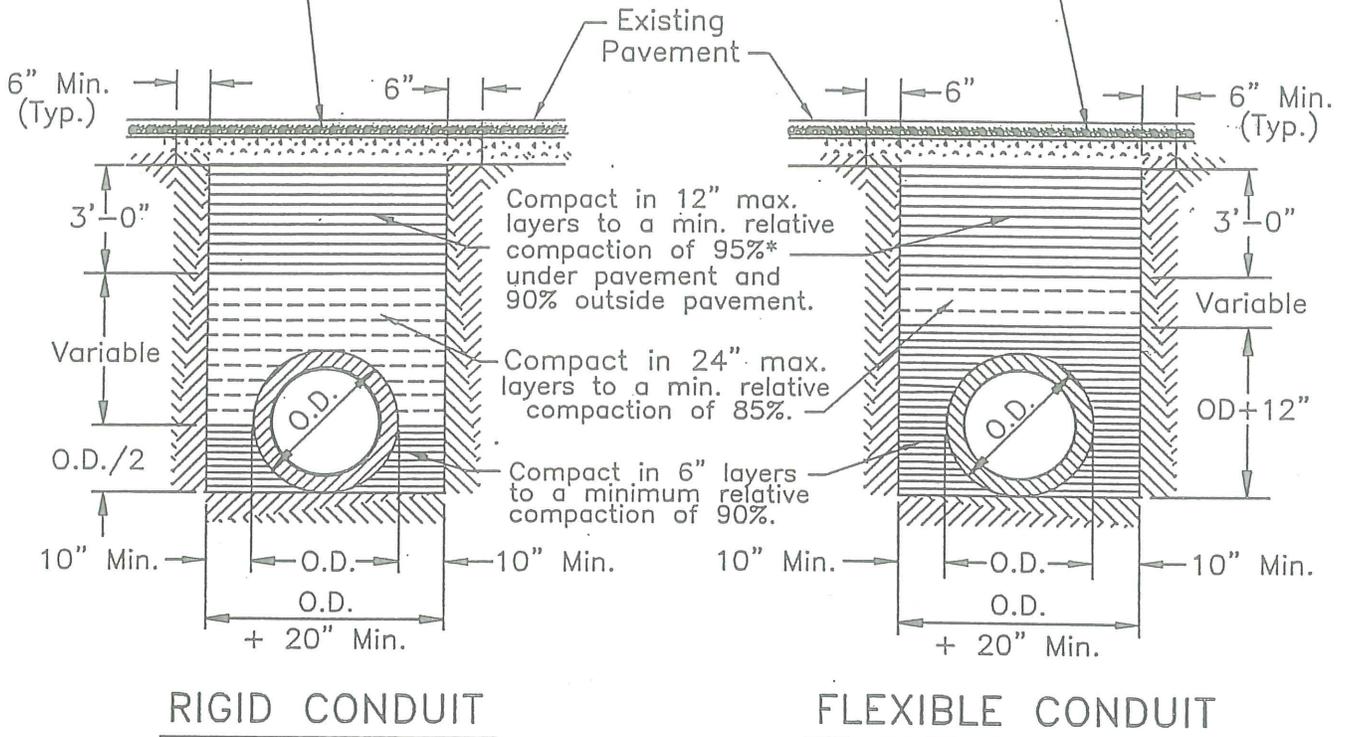
PG&E will be Trench & installing 12" STL main from the west side of UPPER TRACKS North side of ARMSTRONG Rd heading west to DEVERIES crossing ARMSTRONG Trenching on E/S of DEVERIES APPX 500' & crossing DEVERIES and continuing Trenching on Private Property with Right of way

Work will commence on or about 9-19-2010 for approximately 92 days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Patrick Lee Field ENG TECH. Sept 2nd 2011  
 Signature of Applicant - Title Date

Backfill with materials equal to or better than the existing pavement and base in quality. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 feet. New base shall be 1" thicker than existing base, minimum of 0.5 feet.



**NOTES:**

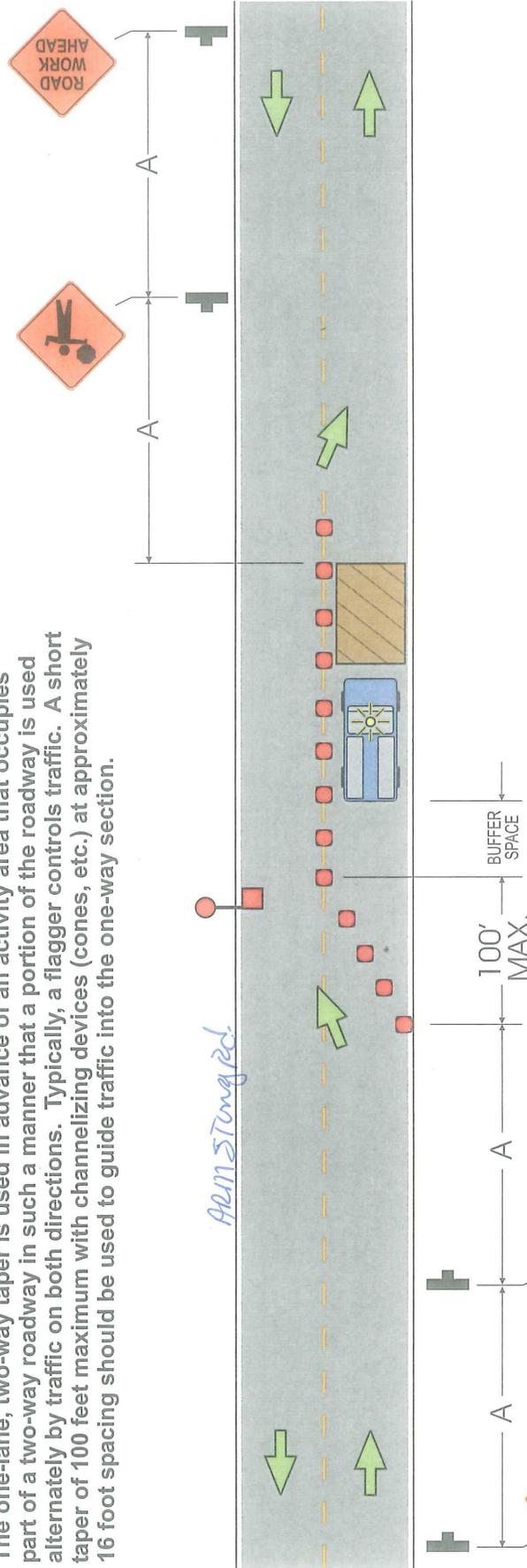
1. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
2. All existing pavement shall be neatly cut to line prior to trench excavation.
3. Jetting or ponding will be permitted within the street Right of Way with a 3 year bond.
4. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
5. Special bedding requirements may be shown on the plans or specified in special provisions.
6. Shoulders shall be as shown on the plans or specified in the special provisions but in no case shall the shoulder be less than three feet wide as measured from the edge of pavement.

No.	Revised	By	<b>TYPICAL TRENCH BACKFILL</b>	Approved by
1	Feb. 1996	PD		<i>Henry M. Herata</i>
Drawn by JLD			<b>COUNTY OF SAN JOAQUIN</b> DEPARTMENT OF PUBLIC WORKS	Date JUNE 1997
Checked by				Drawing No. R-29
Scale NONE				

## UTILITY TYPICAL APPLICATIONS

### UTA-5 Lane Closure on Urban Street, Flagger Control

1. The traffic control procedure shown is appropriate only for low-speed, low-volume streets/roads where traffic cannot regulate itself due to visibility, conditions, volume, etc.
2. A single flagger can regulate traffic when volumes are low and the length of the work space is short, thus enabling drivers to readily see the roadway beyond.
3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
4. The one-lane, two-way taper is used in advance of an activity area that occupies part of a two-way roadway in such a manner that a portion of the roadway is used alternately by traffic on both directions. Typically, a flagger controls traffic. A short taper of 100 feet maximum with channelizing devices (cones, etc.) at approximately 16 foot spacing should be used to guide traffic into the one-way section.



**SEE:**

- TABLE 1 for Buffer Length (page 26)
- TABLE 4 for "L" & Channelizer (cones, etc.) Quantity (page 28)

**NOTE: LOCAL REGULATIONS MAY VARY.**

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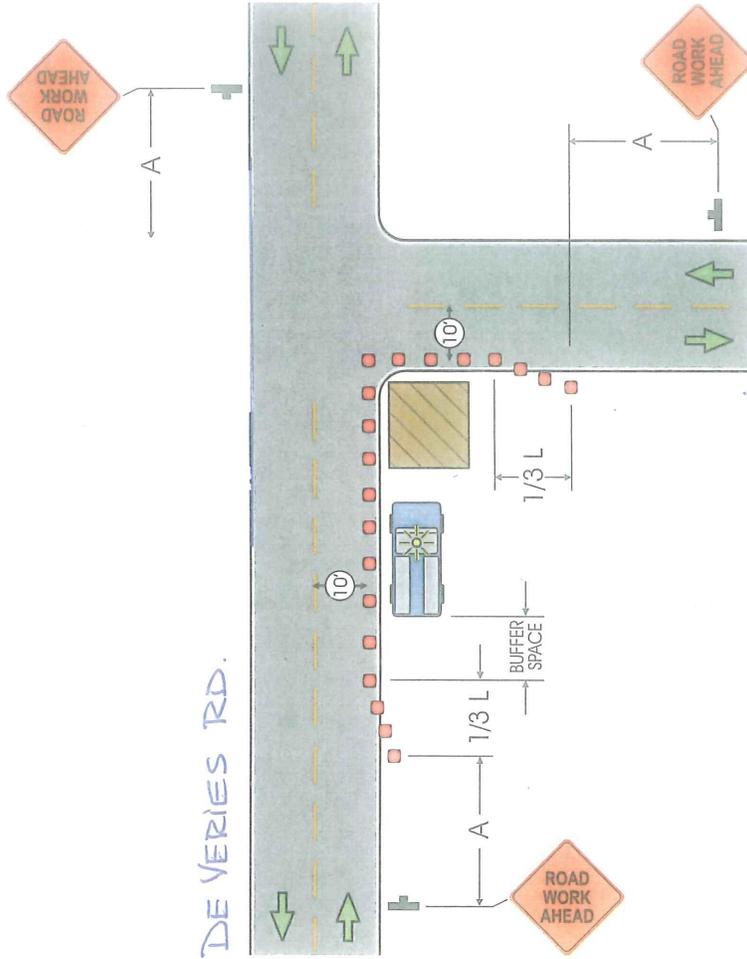
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SIGN SPACING	DISTANCE
ROAD TYPE	A
Urban - 25 MPH or less	200'
Urban - 30 MPH or more	350'
Rural	500'
Expressway/Freeway	1000'

**UTILITY TYPICAL APPLICATIONS**

**UTA-7 Shoulder Work at Side of Intersection, with Minor Encroachment**

1. May only be used on roads with low volume and speed. For higher speeds and volume, a lane closure should be considered (see UTA-8).
2. If the work space is in the median of a divided highway, an advance warning sign should also be placed on both the left and right side of the directional roadway.
3. For short-term, short-duration, or mobile operation, all signs and channelizing devices (cones, etc.) may be eliminated if a vehicle with an activated flashing or revolving yellow light is used.



SIGN SPACING	DISTANCE
ROAD TYPE	A
Urban - 25 MPH or less	200'
Urban - 30 MPH or more	350'
Rural	500'
Expressway/Freeway	1000'

**SEE:**

- TABLE 1 for Buffer Length (page 26)
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**NOTE: LOCAL REGULATIONS MAY VARY.**

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Exhibit 12

Non-Compliance Report Log

NCR NO.	Date Rec'd.	Description of NCR	Date Closed	Remarks
1	12-1-10	Inadequate clearance DB0721	2-17-11	Closed
2	12-1-10	Inadequate clearance DB0411	2-17-11	Closed
3	12-9-10	Shut off valve for hydrant closer than detailed.	7-29-11	Closed
4	1-25-11	Spacer Issues Duct bank 0421	2-17-11	Closed
5 BI	2-7-11	Damage to bundle drain couplet		New couplet has been installed & NDE complete. Will close after Hydro.
6	2-18-11	Low concrete breaks cooling tower foundation west block of foundation	3-18-11	Closed 56 Day breaks, 4280psi, 4260psi
7	2-25-11	Wood Group flame cut holes in compressor frame without prior approval	3-4-11	Closed RFI 1211
8	3-3-11	Low concrete breaks Gas compressor pad	3-10-11	Closed per engineering evaluation. 56 day break 3900psi
9	4-5-11	Low concrete breaks DB0221 bottom lift.	4-27-11	Closed 56 Day breaks, 2330 psi
10	5-5-11	Low concrete break mid section cooling tower. Pour #102	6-1-11	Closed 56 day break 4290psi
11	4-19-11	Turbine Support bolt off location	4-27-11	Closed RFI 1276
12	4-26-11	Embed plates cast off center HRSG sump	7-27-11	Closed RFI 1291
13	5-12-11	CT enclosure anchor bolts off location	6-11-11	Closed RFI 1314
14	5-24-11	Electrical vaults leaking water		Pending final walkdown
15	6-2-11	Low concrete break CTG PDC pedestals	6-30-11	Closed. 56 day break 4480PSI
16	6-15-11	Grout @ CTG package failed to bond	6-21-11	Closed
17	6-15-11	Grout on STIG pipe supports coming out		Remove, rebush & regROUT
18	7-21-11	Low concrete break water treatment building. 3940 psi	8-18-11	56 day results 8-18-11 4250PSI CLOSED
19	8-11-11	Damaged valve11LBB40AA503		New parts are on order.

