

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

## Monthly Compliance Report # 2

LOS ESTEROS CRITICAL ENERGY FACILITY, LLC

July 2011  
For  
California Energy Commission

## Los Esteros Critical Energy Facility, Phase 2

(03-AFC-2)

Monthly Compliance Report #2

July 2011

### 1. LECEF Project Construction Status

With meaningful work achieved during May-June, the reporting period of July included the delivery of the remaining jobsite trailers for CCMCI (LECEF), LG Constructors and CBO staff, and an increase in construction workers (43 contractors) onsite.

The project is approximately 1.08 percent complete (cumulative through July 22<sup>nd</sup>), and work continues to proceed with engineering, procurement, permitting and compliance as well as scheduling and construction planning while moving into the next segment of work leading up to foundation and underground utilities being in place by the end of 2011. Moreover, submittals to the CBO continue as the site under goes transformation.

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

- Completed installation of approximately 442 feet of underground circulation water pipe
- Concrete was poured at basin walls on north end of cooling tower
- Completed installation of gravel road at north/south area of the craft parking lot
- Completed installation of forms for second concrete pour at basin walls on north end of cooling tower
- Formed and installed rebar in south section of cooling tower basin, including concrete pour of foundation
- Completed concrete pour for cooling tower foundation (north end)
- Pulled and hooked up 480 V cables from existing transformer 010-EMA-XF-013 to new construction power transformer at N/W corner of LECEF trailer.

### Work In Progress;

- Continued installation of underground circulation water pipe
- Steam turbine generator foundation
- Middle cooling tower pump pit foundation
- Form cooling tower south basin walls
- Complete set up of construction jobsite trailers

### 2. Table of Required Monthly Compliance Report Documents

COM-6	Is requirement of first MCR	AQ-3	N/A, first fire
GEN-2	A copy of the most recent schedule is attached	AQ-4	N/A, first fire
GEN-3	Email from CBO confirming receipt of payments is attached	AQ-6	N/A, first fire
GEN-6	CBO disposition approving special inspectors is attached	AQ-9	N/A, first fire
GEN-7	None this month	AQ-10	N/A, first fire
GEN-8	N/A. Applicable work not completed for the reporting period	WS-4	A copy of the most recent information is attached
CIVIL-1	CBO approved dispositions are attached	BIO-2	A copy of the Designated Biologist's summary report is attached
CIVIL-3	A copy of the NCR log is attached	BIO-4	The number of WEAP participants is provided including cumulative total
CIVIL-4	N/A. Applicable work not completed for the reporting period	BIO-20	None this month
STRUC-1	N/A. Applicable work not complete for the reporting period	BIO-21	No additional information required
STRUC-3	N/A. Applicable work not complete for the reporting period	CUL-2	A copy of the anticipated project activity is attached
STRUC-4	N/A. Applicable work not complete for the reporting period	CUL-4	A copy of the acknowledgement forms for the reporting period is attached
MECH-1	N/A. Applicable work not complete for the reporting period	CUL-5	A copy of the CRS Monitor's report is attached
MECH-2	N/A. Applicable work not complete for the reporting period	PAL-3	A copy of the WEAP training records are attached
ELEC-1	N/A. Applicable work not complete for the reporting period	PAL-4	A copy of the PRS Monitor's report is attached
TSE-1	N/A. Applicable work not complete for the reporting period	WASTE-5	A copy of the USEPA, Region 9 RCRA ID Notification # letter is attached
TSE-4	N/A. Applicable work not complete for the reporting period	SOCIO-1	A copy of the activities report is attached
AQ-SC3	Discussion of the dust monitoring process is attached	TRANS- 1	A copy of construction volume counts is attached
AQ-SC5	Information is provided for this COC, as attached	TRANS-2	None this month
AQ-1	N/A, first fire	TRANS-3	None this month
AQ-2	N/A, first fire	TRANS-4	Information is provided for this COC, as attached

### 3. Compliance Matrix

A copy of the construction compliance matrix is attached.

### 4. Conditions Satisfied During The Reporting Period

The conditions satisfied during the reporting period include:

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

5. Submittal Deadlines Not Met

There are no past due compliance submittals.

6. Approved Condition of Certification Changes

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

7. Filings or Permits from other Agencies

- Bay Area Air Quality Management District – Request for an extension of the Authority to Construct (ATC) for LECEF, Phase 2 – July 15, 2011

8. Projection of Compliance Activities for July-August

GEN-2	Schedule will be updated monthly
GEN-3	CBO payments will be submitted monthly
AQ-SC-3	The AQCMM report will be updated monthly
AQ-SC-5	The AQCMM report will be updated monthly
WS-4	The Safety Inspection report will be updated monthly
BIO-2	The Designated Biologist's report will be updated monthly
BIO-4	WEAP training will be completed for new employees as needed
CUL-2	A current schedule will be provided to CRS when available
CUL-4	WEAP training will be completed for new employees as needed
PAL-3	WEAP training will be completed for new employees as needed, but is currently being provided Monday and Wednesday at 7:00 AM
PAL-4	The PRS report will be updated monthly

9. Additions to the On-site Compliance File

There are no additions this reporting period.

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

- WEAP training records
- Cultural Monitoring Reports

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

None received during the reporting period.

**CONDITION OF CERTIFICATION  
COM-6**

**Los Esteros Critical Energy Facility, Phase 2  
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## **COM-6, KEY EVENTS LIST**

PROJECT: Los Esteros Critical Energy Facility, Phase 2

DOCKET# 03-AFC-2

COMPLIANCE PROJECT MANAGER: Eric Veerkamp

### **EVENT DESCRIPTION**

### **DATE**

CERTIFICATION DATE/OBTAIN CONTROL	05/2013
ONLINE DATE	02/2013
<b>POWER PLANT SITE ACTIVITIES</b>	
START SITE MOBILIZATION	05/9/11
START GROUND DISTURBANCE	05/11/11
START GRADING	05/16/11
START CONSTRUCTION	05/9/11
BEGIN POURING MAJOR FOUNDATION CONCRETE	06/23/11
BEGIN INSTALLATION OF MAJOR EQUIPMENT	03/2012
COMPLETION OF INSTALLATION OF MAJOR EQUIPMENT	12/2012
FIRST COMBUSTION OF GAS TURBINE	02/2013
START COMMERCIAL OPERATION	05/2013
COMPLETE ALL CONSTRUCTION	05/2013
<b>TRANSMISSION LINE ACTIVITIES</b>	
START T/L CONSTRUCTION	07/2013
SYNCHRONIZATION WITH GRID AND INTERCONNECTION	03/2013
COMPLETE T/L CONSTRUCTION	11/2012
<b>FUEL SUPPLY LINE ACTIVITIES</b>	
START GAS PIPELINE CONSTRUCTION AND INTERCONNECTION	Existing
COMPLETE GAS PIPELINE CONSTRUCTION	Existing
<b>WATER SUPPLY LINE ACTIVITIES</b>	
START WATER SUPPLY LINE CONSTRUCTION	Existing
COMPLETE WATER SUPPLY LINE CONSTRUCTION	Existing

**CONDITION OF CERTIFICATION  
GEN-2**

**Los Esteros Critical Energy Facility, Phase 2  
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Activity ID	Activity Name	OD	RD	TF	% Comp	Start	Finish	August 2011			
								01	08	15	22

**CIVIL / STRUCTURAL / ARCHITECTURAL**

**LEASING OF TEMPORARY OFFICE AND CRAFT FACILITIES (TRAILERS)**

**No LE-WBS4**

EPYA05501A	TEMP OFICE FAC-Complete Installation of Trailer Facilities	20	10	113	29%	05-Jul-11 A	12-Aug-11				
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**GENERAL SITE WORK**

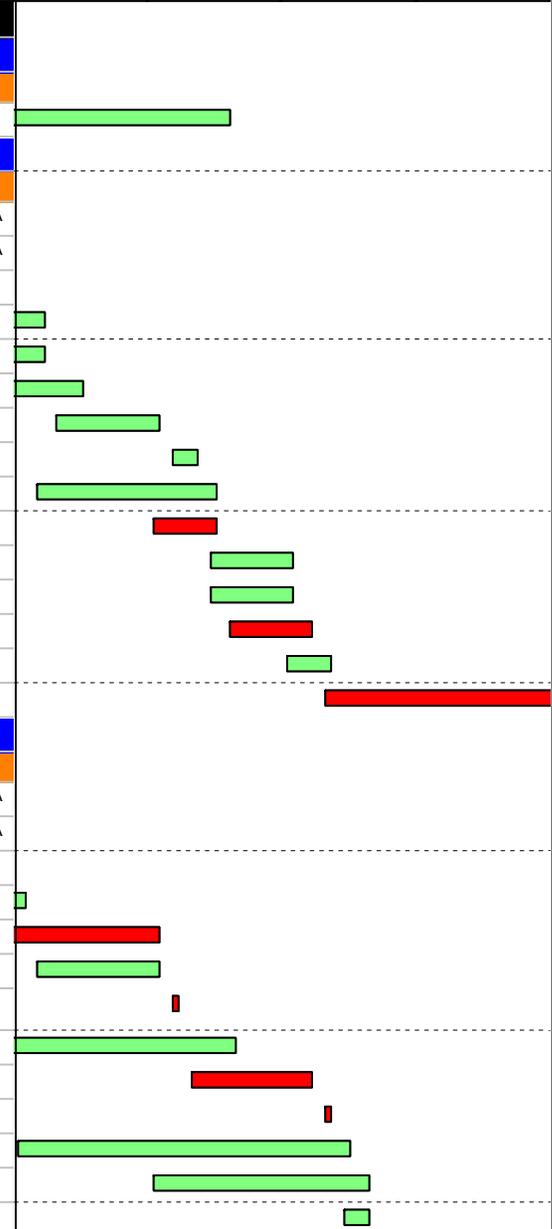
**SITWORK**

CS0SIT1030	MASS EXCAVATE UG CW PIPE-PHASE 3	3	0		100%	15-Jul-11 A	20-Jul-11 A				
CS0SIT1031	PLACE BEDDING UG CW PIPE-PHASE 3	2	0		100%	19-Jul-11 A	20-Jul-11 A				
CS0CTWF102	MASS EXCAVATE CW PIT/MID COOLING TOWER FNDN	4	5	0	10%	22-Jul-11 A	29-Jul-11				
CS0SIT1003	BACKFILL UG CW PIPE-PHASE 1	6	7	1	50%	23-Jun-11 A	02-Aug-11				
CS0SIT1011B	EXCAVATE PHASE 4A PIPE MODS	4	4	1	0%	28-Jul-11*	02-Aug-11				
CS0SIT1000A	MASS EXCAVATE STG FNDN	6	7	70	0%	25-Jul-11 A	04-Aug-11				
CS0SIT1015	BACKFILL TO UG UTIL UG CW PIPE-PHASE 2	4	4	1	0%	03-Aug-11	08-Aug-11				
CS0SIT1016	REMOVE CW PIPE TEMP UTIL SUPPORTS-PHASE 2	2	2	1	0%	09-Aug-11	10-Aug-11				
CS0SIT1000B	ENGR FILL STG FNDN	8	8	70	0%	02-Aug-11	11-Aug-11				
CS0SIT1032	BACKFILL UG CW PIPE-PHASE 3	4	4	0	0%	08-Aug-11	11-Aug-11				
CS0SIT1017	COMPLETE BACKFILL UG CW PIPE-PHASE 2	3	3	1	0%	11-Aug-11	15-Aug-11				
CS0SIT1093	BACKFILL PHASE 4A PIPE MODS	3	3	1	0%	11-Aug-11	15-Aug-11				
CS0SIT1051	MASS EXCAVATE /EXPOSE UTIL UG CW PIPE-PHASE 4A	3	3	0	0%	12-Aug-11	16-Aug-11				
CS0CTWF185	BACKFILL NORTH COOLING TOWER	3	3	46	0%	15-Aug-11	17-Aug-11				
CS0SIT1052	INSTALL TEMP UTIL SUPPORTS UG CW PIPE-PHASE 4A	11	11	0	0%	17-Aug-11	31-Aug-11				

**MAJOR AND MISC STRUCTURAL CONCRETE**

**CONCRETE**

CS0CTWF132	STRIP FORM COOLING TOWER SOUTH BASIN FLOOR	4	0		100%	18-Jul-11 A	19-Jul-11 A				
CS0CTWF131	CURE CONCRETE COOLING TOWER SOUTH BASIN FLOOR	4	0		100%	14-Jul-11 A	22-Jul-11 A				
CS0CTWF115	FORM/REBAR COOLING TOWER NORTH BASIN WALLS	8	2	48	80%	27-Jun-11 A	26-Jul-11				
CS0CTWF120	POUR CONCRETE COOLING TOWER NORTH BASIN WALLS	1	6	48	50%	20-Jul-11 A	01-Aug-11*				
CS0CTWF149	FORM/REBAR CW PMP PIT FLOOR	8	8	0	0%	30-Jul-11	08-Aug-11				
CS0CTWF121	FINAL CURE CONCRETE COOLING TOWER NORTH BASIN WALLS	7	7	69	0%	02-Aug-11	08-Aug-11				
CS0CTWF150	POUR CONCRETE CW PMP PIT FLOOR	1	1	0	0%	09-Aug-11	09-Aug-11				
CS0CTWF122	STRIP FORM COOLING TOWER NORTH BASIN WALLS	13	13	46	0%	27-Jul-11*	12-Aug-11				
CS0CTWF151	CURE CONCRETE CW PMP PIT FLOOR	7	7	0	0%	10-Aug-11	16-Aug-11				
CS0CTWF152	STRIP FORM CONCRETE CW PMP PIT FLOOR	1	1	0	0%	17-Aug-11	17-Aug-11				
CS0CTWF135	FORM COOLING TOWER SOUTH BASIN WALLS	14	14	35	0%	01-Aug-11*	18-Aug-11				
CS0CTWF140	POUR CONCRETE COOLING TOWER SOUTH BASIN WALLS	10	10	35	0%	08-Aug-11	19-Aug-11				
CS0CTWF123	FORM/REBAR COOLING TOWER NORTH STAIR PAD	2	2	46	0%	18-Aug-11	19-Aug-11				



■ Remaining Level of Effort    ■ Remaining Work  
■ Actual Work                    ■ Critical Remaining Work



Activity ID	Activity Name	OD	RD	TF	% Comp	Start	Finish	August 2011					
								01	08	15	22		
CSOCTWF141	CURE CONCRETE COOLING TOWER SOUTH BASIN WALLS	2	2	52	0%	20-Aug-11	21-Aug-11						
CSOCTWF155	FORM/REBAR CW PMP PIT WALLS	11	11	0	0%	18-Aug-11	30-Aug-11						
CSOSTGF101	FORM/REBAR W/ EMBEDS BASE MAT STG	22	22	70	0%	12-Aug-11	13-Sep-11						
<b>PIPING</b>													
<b>TEMPORARY WATER AND SEWER</b>													
<b>UG CIRC WATER PIPING</b>													
EPY024902	TEMP WATER AND SEWER-Install Water and Sanitary to Trailers	8	7	115	90%	13-Jul-11 A	02-Aug-11						
<b>UNDERGROUND CIRCULATION WATER PIPE SYSTEM</b>													
<b>UG CIRC WATER PIPING</b>													
CSOUGCW2	INSTALL U/G CW PIPING-PHASE 2	8	4	0	60%	11-Jul-11 A	28-Jul-11						
CSWHP0110	WITNESS-HOLD POINT - U/G CW PIPING-PHASE 2	0	0	4	0%		28-Jul-11						
CSK031501	4400-002, UG CW PIPE - FIELD ASSEMBLE PIPE MOD SPOOLS	4	4	1	0%	28-Jul-11*	02-Aug-11						
CSOUGCW3	INSTALL U/G CW PIPING-PHASE 3	6	10	0	0%	22-Jul-11 A	05-Aug-11						
CS0SIT1082	MODIFY FIRE LINE/PIV @N1281 UG CW PIPE-PHASE 4A	3	3	4	0%	03-Aug-11	05-Aug-11						
CSWHP0120	WITNESS-HOLD POINT - U/G CW PIPING-PHASE 3	0	0	0	0%		05-Aug-11						
CS0SIT1091	MODIFY PIPING -PHASE 4A	6	6	1	0%	03-Aug-11*	10-Aug-11						
<b>ELECTRICAL / INSTRUMENTATION</b>													
<b>TEMPORARY ELECTRICAL</b>													
<b>No LE-WBS4</b>													
EPY024702	TEMP ELECTRICAL-Install Power to Trailers	5	7	120	90%	11-Jul-11 A	02-Aug-11						

■ Remaining Level of Effort    ■ Remaining Work  
■ Actual Work                      ■ Critical Remaining Work



**CONDITION OF CERTIFICATION  
GEN-3**

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

## Rodney Jones

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**From:** Don Wimberly <dwimberly@aimscorp.com>  
**Sent:** Thursday, July 28, 2011 1:01 PM  
**To:** Rodney Jones  
**Subject:** RE: CBO Payment for July

Rod

Payments by the Owner to AIMS Corporation for the LECEF Delegate Chief Building Official Services are currently up to date.

Thank you.

Don Wimberly  
AIMS Corporation  
Direct phone: 408-930-4066  
FAX: 408-356-2456  
Mail: P.O. Box 800  
Los Gatos, CA 95031

**CONDITION OF CERTIFICATION  
GEN-6**

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



**THE AIMS CORPORATION**  
Associated Infrastructure Management Services, Inc.  
Delegate CBO for the California Energy Commission

## **DISPOSITION**

May 9, 2011

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

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

**Review Subject:** Special Inspectors  
**Applicable Documents:** Documents Listed Below

## **APPROVED WITH COMMENT**

1. See CBO Comments attached.
2. Future revisions to this documentation, if any, shall be submitted to the CBO for review.
3. For any questions you may contact Hans Kosten by cell phone 650-996-9932 or by email [hans@lecef-cbo.com](mailto:hans@lecef-cbo.com).

Sincerely,

Hans Kosten  
Deputy CBO

Sent to Distribution List



**THE AIMS CORPORATION**  
Associated Infrastructure Management Services, Inc.  
Delegate CBO for the California Energy Commission

**CBO COMMENTS**  
**CBO-052 SPECIAL INSPECTORS**  
**MAY 9, 2011**

1. General Notes

- a. ALL submitted documents:
- must have the CBO# in the lower right-hand corner in a color other than black.
  - Must be separated by a sheet of colored paper or stapled (if the document is small enough).

2. Resumes:

APPROVED

- a. Alberto Cortez, Staff Engineer  
b. Arthur R. Williams, Assistant Construction Services Manager  
c. Jimmie Miller, Special Inspector  
d. Gary Klopson, Special Inspector  
e. John Oliveira, Field Supervisor  
f. Gabriel Velasquez, Senior Field Supervisory Technician
  - Approved for onsite Geotechnical Inspection  
g. Raymond E. Horton, Project Quality Assurance Manager
  - Mr. Horton does not require CBO approval, however, his credentials are recognized

3. Special Inspectors Matrix

- a. Correct the spelling of Mr. Oliveira's name.



**THE AIMS CORPORATION**  
Associated Infrastructure Management Services, Inc.  
Delegate CBO for the California Energy Commission

## **DISPOSITION**

June 17, 2011

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

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

**Review Subject:** Special Inspectors  
**Applicable Documents:** Ron Akins  
Gary Klopson

## **APPROVED**

1. Future revisions to this documentation, if any, shall be submitted to the CBO for review.
2. For any questions you may contact Hans Kosten by cell phone 650-996-9932 or by email [hans@lecef-cbo.com](mailto:hans@lecef-cbo.com).

Sincerely,

Hans Kosten  
Deputy CBO

Sent to Distribution List

**CONDITION OF CERTIFICATION  
CIVIL-1**

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



**THE AIMS CORPORATION**  
Associated Infrastructure Management Services, Inc.  
Delegate CBO for the California Energy Commission

## **DISPOSITION**

May 23, 2011

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

**CBO COC:** CIVIL-1  
**CBO Package No:** CBO-102

**Review Subject:** Drainage and Grading  
**Applicable Documents:** Dwg. DE-C2-0601, Sht. 1, Rev. 2

### **APPROVED with Note**

1. Confirm by email that revision showing "LIMIT OF EXCAVATION" is for this phase of meaningful construction.
2. Future revisions to this documentation, if any, shall be submitted to the CBO for review.
3. For any questions you may contact Hans Kosten by cell phone 650-996-9932 or by email [hans@lecef-cbo.com](mailto:hans@lecef-cbo.com).

Sincerely,

Hans Kosten  
Deputy CBO

Sent to Distribution List



**THE AIMS CORPORATION**  
Associated Infrastructure Management Services, Inc.  
Delegate CBO for the California Energy Commission

## **DISPOSITION**

July 12, 2011

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

**CBO COC:** STRUC-1  
**CBO Package No:** CBO-203

**Review Subject:** STG Foundation & Calculations  
**Applicable Documents:** All Documents to Date

## **APPROVED**

1. Future revisions to this documentation, if any, shall be submitted to the CBO for review.
2. For any questions you may contact Hans Kosten by cell phone 650-996-9932 or by email [hans@lecef-cbo.com](mailto:hans@lecef-cbo.com).

Sincerely,

Hans Kosten  
Deputy CBO

Sent to Distribution List

**CONDITION OF CERTIFICATION  
CIVIL-3**

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

## LG CONSTRUCTORS LECEF, PHASE II – NON-CONFORMANCE LOG

Contractor/ Supplier	NCR No.	Drawing No.	Location	Date Generated	Description	NCR Type	Date to Engineering	Date Answered	Date Comp	Date Closed
Overaa/Duran & Venables	<a href="#">1</a>	LE-GEN- DE-P9- 0001 sht 1 R/0	Phase II utility reroute	6/13/11	Damage to Instrument Air Line AGANA006	Repair	6/13/11	6/13/11		
Overaa/Duran & Venables	<a href="#">2</a>	LE-GEN- DE-P9- 0001 sht 1 R/0	Phase II utility reroute	6/14/11	Damage to Firewater Line 10"P3GFP005	Accept As Is / Replace	6/20/11	6/20/11		
LG Constructors	<a href="#">3</a>	LGC Quality Manual	Cooling Tower	6/21/11	Hold Point not signed off Concrete additional of fibers not in mix	Rework	6/21/11	6/21/11	6/23/11	6/24/11
Hanson & Harder Mechanical	<a href="#">4</a>	CH2M HILL spec 402319.01 and Hanson Drawing	Circulating Water	6/22/11	Leak at metal to Concrete interface 4th to 5th MK43 on South Line Base metal gouge 3rd to 4th MK43 On South Line	Repair / Accept As Is	6/22/11	6/27/11		
Overaa	<a href="#">5</a>	CH2M Hill spec 033000 and drawing LE-CTW- DE-S7- 0160sec. A	Cooling Tower Wall Placement	7/26/11	Concrete Construction joint not roughened as per specification	Accept As Is	7/27/11	7/27/11		
Harder Mechanical	<a href="#">6</a>	Hanson Drawings 110090- DR03 and 110090- LD01	Circulating Water interior grout joints at welds 2, 3, 5 & 6	7/27/11	Circulating water piping interior joints not presoaked for time to achieve SSD condition	Rework	7/28/11			

**CONDITION OF CERTIFICATION  
AQ-SC3**

**Los Esteros Critical Energy Facility, Phase 2  
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## **LG Constructors**

1. All equipment is inspected when mobilized to the site to make sure it meets the CARB requirements and is stickered. Dust monitoring is conducted daily. When visible dust is observed, water is applied to mitigate. Exposed soil is watered daily. Roads are watered routinely for dust control. The 5 minute idle rule is enforced.
2. No complaints
3. Records are available onsite for review.

**CONDITION OF CERTIFICATION  
AQ-SC5**

**Los Esteros Critical Energy Facility, Phase 2  
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**Construction Equipment Currently Used Onsite as of May '2011**

<b>Equipment Type</b>	<b>Engine Operating Hours Since Last Major Overhaul</b>	<b>Tier</b>
Skip Loader	2,210	3
Dozer	2,215	3
Motor Grader	4,523	2
Backhoe Loader	4,379	2
Scraper	1,185	3
Roller	4,127	1
Excavator	200	1
Water Truck	6,420	2
Street Sweeper	Unknown	1

Source: LG Constructors

## Los Esteros Critical Energy Facility

Please fill out the following information for each piece of diesel construction equipment.

Name of Subcontractor: Duran & Venables

Subcontractor Mailing Address: 748 S. Hillview Dr.

Dates Subcontractor Will Be Working Onsite: 5/10/11 - 3/31/12

### Construction Equipment Information:

- Equipment type (e.g., backhoe, grader, excavator): Skip loader
- Equipment manufacturer: John Deere #305
- Equipment model number: 210 LJ
- Location of exhaust muffler (e.g., on top of cab, on top of front engine cover, on top of rear engine cover) Top of front engine cover
- Expected number of days on site: 180

### Construction Equipment Engine Information:

- Engine manufacturer: ~~John Deere~~ John Deere
- Engine model number: 4045 HT054
- EPA engine family number: 8JDXL068106
- Engine serial number: PE4045L043008
- Engine displacement (liters): 4.5
- Engine power rating (HP): 83
- Date engine manufactured: 2008
- EPA engine conformity statement present (i.e., This engine conforms to [model year] EPA regulation for non-road compression-ignition engines):
  - Present  (yes/no) \_\_\_\_\_ If yes, year: 2008
- Number of engine operating hours since last major overhaul: 2,210

# Los Esteros Critical Energy Facility

Please fill out the following information for each piece of diesel construction equipment.

Name of Subcontractor: Duran & Venables

Subcontractor Mailing Address: 748 S. Hillview Dr.

Dates Subcontractor Will Be Working Onsite: 5/10/11 - 3/31/12

### Construction Equipment Information:

- Equipment type (e.g., backhoe, grader, excavator): Dozer
- Equipment manufacturer: Caterpillar
- Equipment model number: DSN # 328
- Location of exhaust muffler (e.g., on top of cab, on top of front engine cover, on top of rear engine cover) Top of front engine cover
- Expected number of days on site: 120

### Construction Equipment Engine Information:

- Engine manufacturer: ~~Caterpillar~~ Perkins
- Engine model number: 3126
- EPA engine family number: 6CPXL07.2HSK
- Engine serial number: BMA31583
- Engine displacement (liters): ~~3.0~~ 7.2
- Engine power rating (HP): 121
- Date engine manufactured: 2006
- EPA engine conformity statement present (i.e., This engine conforms to [model year] EPA regulation for non-road compression-ignition engines):
  - Present (yes/no) \_\_\_\_ If yes, year: 2006
- Number of engine operating hours since last major overhaul: 2215

## Los Esteros Critical Energy Facility

Please fill out the following information for each piece of diesel construction equipment.

Name of Subcontractor: Duran & Venables

Subcontractor Mailing Address: 748 S. Hillview Dr.

Dates Subcontractor Will Be Working Onsite: 5/10/11 - 3/31/12

### Construction Equipment Information:

- Equipment type (e.g., backhoe, grader, excavator): Motor Grader
- Equipment manufacturer: Caterpillar #335
- Equipment model number: 140H
- Location of exhaust muffler (e.g., on top of cab, on top of front engine cover, on top of rear engine cover) Top of rear engine cover
- Expected number of days on site: 180

### Construction Equipment Engine Information:

- Engine manufacturer: Caterpillar
- Engine model number: 3176
- EPA engine family number: 4CPL10.3ESK
- Engine serial number: 3P007487
- Engine displacement (liters): 10.3
- Engine power rating (HP): 105
- Date engine manufactured: 2004
- EPA engine conformity statement present (i.e., This engine conforms to [model year] EPA regulation for non-road compression-ignition engines):
  - Present ( yes / no) \_\_\_\_\_ If yes, year: 2004
- Number of engine operating hours since last major overhaul: ~~4,200~~ 4,523

## Los Esteros Critical Energy Facility

Please fill out the following information for each piece of diesel construction equipment.

Name of Subcontractor: Duran & Venables

Subcontractor Mailing Address: 748 So. Hillview Dr.

Dates Subcontractor Will Be Working Onsite: 5/10/11 - 3/31/12

### Construction Equipment Information:

- Equipment type (e.g., backhoe, grader, excavator): Backhoe loader
- Equipment manufacturer: Caterpillar
- Equipment model number: 430D #368
- Location of exhaust muffler (e.g., on top of cab, on top of front engine cover, on top of rear engine cover) Top of front engine cover
- Expected number of days on site: 180

### Construction Equipment Engine Information:

- Engine manufacturer: Caterpillar
- Engine model number: 3054
- EPA engine family number: 4PKXLO4.4RG1
- Engine serial number: CRS00880
- Engine displacement (liters): 4.4
- Engine power rating (HP): 90
- Date engine manufactured: 2004
- EPA engine conformity statement present (i.e., This engine conforms to [model year] EPA regulation for non-road compression-ignition engines):
  - Present ( yes/no) \_\_\_\_\_ If yes, year: 2004
- Number of engine operating hours since last major overhaul: 4,739

## Los Esteros Critical Energy Facility

Please fill out the following information for each piece of diesel construction equipment.

Name of Subcontractor: Duran & Venables

Subcontractor Mailing Address: 748 S. Hillview Dr.

Dates Subcontractor Will Be Working Onsite: 5/10/11 - 3/31/12

### Construction Equipment Information:

- Equipment type (e.g., backhoe, grader, excavator): Scrapers
  - Equipment manufacturer: Caterpillar
  - Equipment model number: 613C
  - Location of exhaust muffler (e.g., on top of cab, on top of front engine cover, on top of rear engine cover) Top of front engine cover
  - Expected number of days on site: 180
- #385

### Construction Equipment Engine Information:

- Engine manufacturer: Caterpillar
- Engine model number: 3116
- EPA engine family number: 2CPX206.6MRB
- Engine serial number: 4TF90695
- Engine displacement (liters): 7.25
- Engine power rating (HP): 175
- Date engine manufactured: 2006
- EPA engine conformity statement present (i.e., This engine conforms to [model year] EPA regulation for non-road compression-ignition engines):
  - Present  no  If yes, year: 2006
- Number of engine operating hours since last major overhaul: 1,185

## Los Esteros Critical Energy Facility

Please fill out the following information for each piece of diesel construction equipment.

Name of Subcontractor: Duran & Venables

Subcontractor Mailing Address: 748 S. Hillview Dr.

Dates Subcontractor Will Be Working Onsite: 5/10/11 - 3/31/12

### Construction Equipment Information:

- Equipment type (e.g., backhoe, grader, excavator): Roller
- Equipment manufacturer: Caterpillar
- Equipment model number: 563C
- Location of exhaust muffler (e.g., on top of cab, on top of front engine cover, on top of rear engine cover) Top of rear engine cover
- Expected number of days on site: 180

#435

### Construction Equipment Engine Information:

- Engine manufacturer: Caterpillar
- Engine model number: 3116
- EPA engine family number: WCPXLO6.6MRA
- Engine serial number: 98227491
- Engine displacement (liters): 6.6
- Engine power rating (HP): 145
- Date engine manufactured: 1998
- EPA engine conformity statement present (i.e., This engine conforms to [model year] EPA regulation for non-road compression-ignition engines):
  - Present  (yes) / no  If yes, year: 1998
- Number of engine operating hours since last major overhaul: 4,127

## Los Esteros Critical Energy Facility

Please fill out the following information for each piece of diesel construction equipment.

Name of Subcontractor: Duran & Venables

Subcontractor Mailing Address: 748 So. Hillview Dr.

Dates Subcontractor Will Be Working Onsite: 5/10/11 - 3/31/12

### Construction Equipment Information:

- Equipment type (e.g., backhoe, grader, excavator): Excavator
- Equipment manufacturer: Caterpillar
- Equipment model number: 330B
- Location of exhaust muffler (e.g., on top of cab, on top of front engine cover, on top of rear engine cover) Top of rear engine cover
- Expected number of days on site: 180

#367

### Construction Equipment Engine Information:

- Engine manufacturer: Caterpillar
- Engine model number: 3306
- EPA engine family number: VCPIOR2DARB
- Engine serial number: 6NCO2324
- Engine displacement (liters): 10.5
- Engine power rating (HP): 222
- Date engine manufactured: 1997
- EPA engine conformity statement present (i.e., This engine conforms to [model year] EPA regulation for non-road compression-ignition engines):
  - Present  no) \_\_\_\_\_ If yes, year: 1997
- Number of engine operating hours since last major overhaul: 200

### Los Esteros Critical Energy Facility

Please fill out the following information for each piece of diesel construction equipment.

Name of Subcontractor: \_\_\_\_\_  
Subcontractor Mailing Address: \_\_\_\_\_  
Dates Subcontractor Will Be Working Onsite: \_\_\_\_\_

**Construction Equipment Information:**

- Equipment type (e.g., backhoe, grader, excavator): WATER TRUCK
- Equipment manufacturer: Peterbilt / McLean
- Equipment model number: 330 RT
- Location of exhaust muffler (e.g., on top of cab, on top of front engine cover, on top of rear engine cover): ON TOP OF CAB
- Expected number of days on site: \_\_\_\_\_

**Construction Equipment Engine Information:**

- Engine manufacturer: CAT
- Engine model number: C-7
- EPA engine family number: \_\_\_\_\_
- Engine serial number: 890562
- Engine displacement (liters): 12 L
- Engine power rating (HP): 300 HP
- Date engine manufactured: 2004
- EPA engine conformity statement present (i.e., This engine conforms to [model year] EPA regulation for non-road compression-ignition engines):  
 Present (yes) no \_\_\_\_\_ If yes, year 2004
- Number of engine operating hours since last major overhaul: 6420 HRS

ATTN: Diana

### Los Esteros Critical Energy Facility

Please fill out the following information for each piece of diesel construction equipment.

Name of Subcontractor: \_\_\_\_\_

Subcontractor Mailing Address: \_\_\_\_\_

Dates Subcontractor Will Be Working Onsite: \_\_\_\_\_

#### Construction Equipment Information:

- Equipment type (e.g., backhoe, grader, excavator): STEEL SWEEPER
- Equipment manufacturer: MOBI
- Equipment model number: MAT
- Location of exhaust muffler (e.g., on top of cab, on top of front engine cover, on top of rear engine cover): SIDE OF CAB
- Expected number of days on site: \_\_\_\_\_

#### Construction Equipment Engine Information:

- Engine manufacturer: DETROIT
- Engine model number: T444
- EPA engine family number: SNV44-CADORA
- Engine serial number: 1A94240R01R069129
- Engine displacement (liters): 7.3
- Engine power rating (HP): 125
- Date engine manufactured: 1996
- EPA engine conformity statement present (i.e., This engine conforms to [model year] EPA regulation for non-road compression-ignition engines):
  - Present  (yes/no) \_\_\_\_\_ If yes, year: 1996
- Number of engine operating hours since last major overhaul: Unknown

**CONDITION OF CERTIFICATION  
WS-4**

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

Monthly Safety Monitor Report

Report Created by: Marc Wetter

Date: August 1, 2011

COC: Worker Safety 4

Safety Monitor: Signet Testing Labs

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

Monthly Safety Monitor Report:

- Number of employees attended site orientation for the month of June was 40.
- CBO Safety provided 4 site safety observations for the month.
  - LG Constructors preformed 21 EH&S audits for the month.
  - 46 safe behavior observations were conducted.
- All safety related issues have been corrected in a timely manner.
- Two first aid injuries occurred during the month of July.

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

COC: Worker Safety 4

Safety Monitor: Signet Testing Labs

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

Weather: Sunny with high's in the mid 70's

Contractors visited on-site: LG Constructors (general contractor) and Overaa

**General observation:**

Very limited craft employees were on the job at this time.

Back fill was ongoing around the circ water pipes.

Foundation work was ongoing for the cooling tower foundations.

All previous safety deficiencies found on last week's safety observation were noted to be corrected.

**Specific observation:**

- Existing utilities have supports in place and sloping continues to be done correctly at the circ water excavation.
- Back fill has begun around the circ water pipes. Access continues to be properly set up.
- Housekeeping looks great throughout the jobsite. The area around the cooling tower foundation was being very well kept by the employees working there.
- Jobsite trailers are being set up onsite. All activities were being performed in a safe manner at this time.
- Stone being used in the circ water excavation was being watered to keep the dust down. This is a good practice and should be continued to help the employees working in the excavation so they have very limited exposure to dust when the stone is put in place.

**Future Activities:**

Continue excavation for the circulating water pipe. Back fill has begun around the circ water pipe and will be ongoing.

Concrete placement for the south side of the foundation for the cooling tower will be in the near future.

Jobsite trailers are being assembled onsite.

**Corrective Actions to be performed:**

No items to be corrected at this time.

**Additional Comments:**

Please review photos.



7-7-2011

Signature & Date



Existing utilities have supports in place and sloping continues to be done correctly at the circular water excavation.



Back fill has begun around the circ water pipes. Access continues to be properly set up.



Housekeeping looks great throughout the jobsite. The area around the cooling tower foundation was being very well kept by the employees working there.



Jobsite trailers are being set up onsite. All activities were being performed in a safe manner at this time.



Stone being used in the circ water excavation was being watered to keep the dust down. This is a good practice and should be continued to help the employees working in the excavation so they have very limited exposure to dust when the stone is put in place.

COC: Worker Safety 4

Safety Monitor: Signet Testing Labs

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

Weather: Overcast with high's in the mid 70's

Contractors visited on-site: LG Constructors (general contractor), Overaa, and Harder

**General observation:**

Back fill was continuing around the circ water pipes.

Concrete was being placed on the south section of the cooling tower foundation.

All previous safety deficiencies found on last week's safety observation were noted to be corrected.

**Specific observation:**

- Wire mesh has been installed on top of the rebar for the cooling tower foundation. This is a positive practice to help prevent employees from falling through the rebar.
- All employees working on the concrete placement were observed wearing the proper PPE. Gloves, face shields, and ear plugs were worn in addition to the normal required PPE.
- Nylon chokers are being used around the concrete circ water pipe. The outside of the pipe is very rough causing the chokers to be damaged easily. It is recommended to add softeners in between the pipe and the choker to prevent damage.
- Back fill continues around the circ water pipes. Access is properly set up. Employees doing the soil compaction were observed wearing the proper toe guards and ear plugs.
- Extension cords and welding leads are being hung overhead to prevent tripping hazards. All cords were observed to have been inspected and marked per the safety plan.
- An access ramp on the north side of the cooling tower foundation needs to have cleats installed to prevent a slip and fall incident.

**Future Activities:**

Continue excavation for the circulating water pipe.

Back fill continues around the circ water pipe and will be ongoing.

Jobsite trailers are being assembled onsite.

**Corrective Actions to be performed:**

All items were discussed with Mr. Gary Brown and were in the process of being corrected.

**Additional Comments:**

Please review photos.



7-13-2011

Signature & Date



Wire mesh has been installed on top of the rebar for the cooling tower foundation. This is a positive practice to help prevent employees from falling through the rebar. All employees working on the concrete placement were observed wearing the proper PPE. Gloves, face shields, and ear plugs were worn in addition to the normal required PPE.



Nylon chokers are being used around the concrete circ water pipe. The outside of the pipe is very rough causing the chokers to be damaged easily. It is recommended to add softeners in between the pipe and the choker to prevent damage.



Back fill continues around the circ water pipes. Access is properly set up. Employees doing the soil compaction were observed wearing the proper toe guards and ear plugs.



Extension cords and welding leads are being hung overhead to prevent tripping hazards. All cords were observed to have been inspected and marked per the safety plan.



An access ramp on the north side of the cooling tower foundation needs to have cleats installed to prevent a slip and fall incident.

**CONDITION OF CERTIFICATION  
BIO-2**

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

**Biological Resources**  
**Construction Monitoring for the**  
**Los Esteros Critical Energy Facility**

**MONTHLY COMPLIANCE REPORT #2**

**June and July 2011**

**Prepared by:**

**CH2M HILL**

**2485 Natomas Park Drive, Suite 600**

**Sacramento, California 95833**

**Los Esteros Critical Energy Facility**  
**MONTHLY COMPLIANCE REPORT**

**June and July 2011**

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**APPENDICES**

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

# INTRODUCTION

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

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

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

- Four GE LM6000 SPRINT combustion turbine generators (CTG) with water injection
- Oxidation catalysts and selective catalytic reduction (SCR) pollution control equipment, installed within four HRSG casings and stacks (these casings were installed during Phase 1 in anticipation of Phase 2)
- A 115-kilovolt (kV) switchyard
- A 150-foot-long, wood pole transmission line to Pacific Gas and Electric Company's (PG&E) 115-kV Los Esteros-Nortech transmission line, immediately to the west of the LECEF switchyard
- A 2,700-foot-long primary access road, named Thomas Foon Chew Way, linking LECEF with Zanker Road
- A 470-foot-long emergency access road, linking Thomas Foon Chew Way and Alviso-Milpitas Road
- A 55-foot-long, 10-inch-diameter natural gas supply line between the facility and PG&E lines 101 and 109
- Two 1,500-foot-long recycled water supply lines between the facility and the City of San Jose (the City) Waste Pollution Control Plant's (WPCP) recycled water supply pipeline in Zanker Road
- A 2,000-foot-long sanitary sewer discharge line to the City's sewer main in Zanker Road

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

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

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

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

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

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

The project was designed to avoid significant adverse impacts to sensitive biological resources to the furthest extent feasible. Protection measures were developed during informal and formal consultation with local, state, and federal agencies to minimize unavoidable project impacts. The Designated Biologist (DB) or Biological Monitor (BM) will be available during all phases of construction to ensure compliance with the mitigation measures outlined in the BRMIMP and supplemental memo. The following report includes a summary of the Phase 2 monitored biological activities for June and July 2011.

**CONDITION OF CERTIFICATION  
BIO-4**

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

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

July - 38

**Total to date = 179 (As of 7/28/11)**

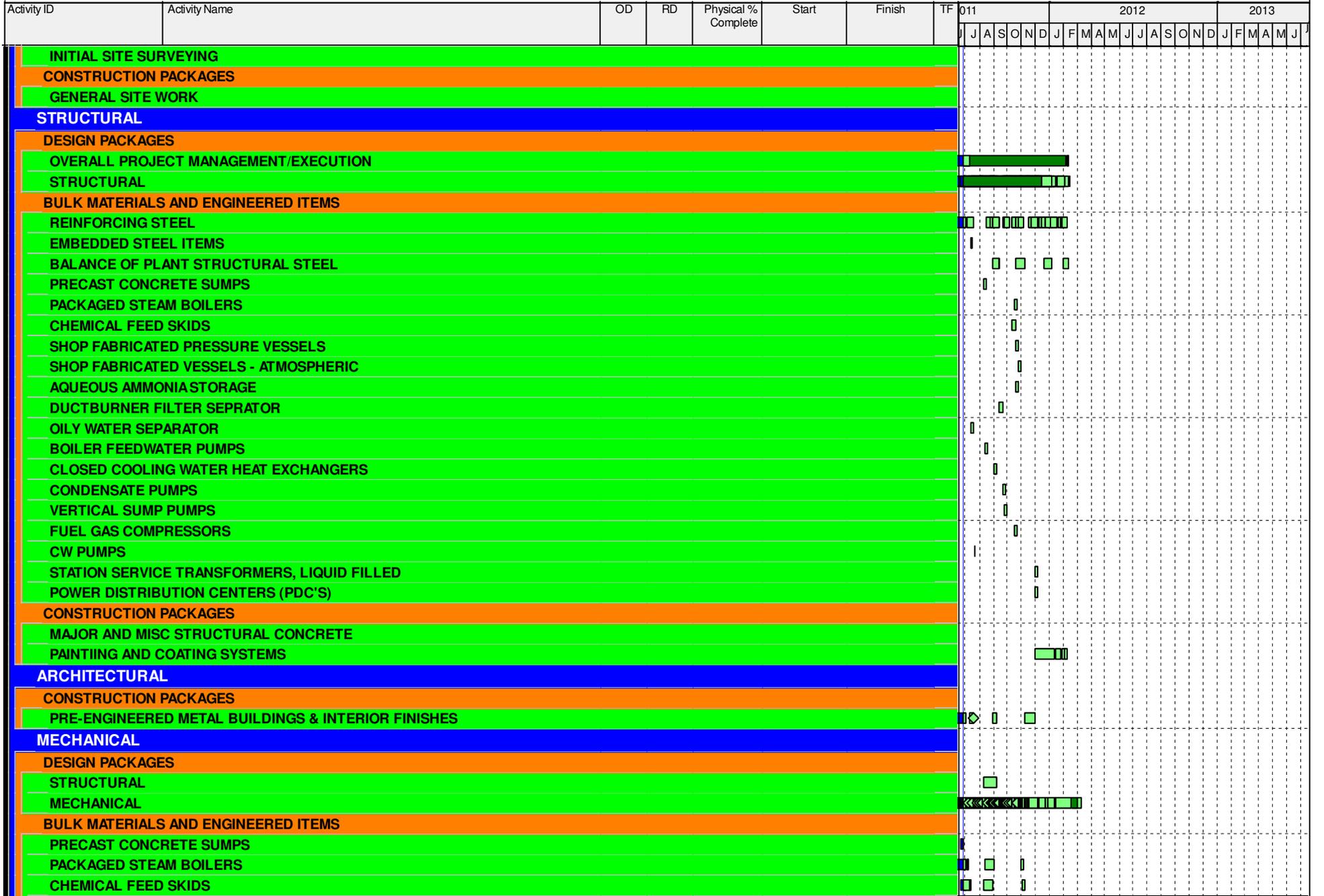
**CONDITION OF CERTIFICATION  
CUL-2**

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

Activity ID	Activity Name	OD	RD	Physical % Complete	Start	Finish	TF	2011												2012												2013											
								J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J												
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MS0100	WVWA AUTHORIZED / NETWORK BEGIN	0	0	100%	17-Jan-11 A																																						
MS0102	LIMITED NOTICE TO PROCEED	0	0	100%	03-Feb-11 A																																						
MS1000	SCHEDULED FULL NOTICE TO PROCEED	0	0	100%	15-Mar-11 A																																						
MS1096	MEANINGFUL CONSTRUCTION ACHIEVED	0	0	0%		27-Jun-11*	4																																				
MS1085	NAT GAS AVAILABLE BY OWNER	0	0	0%		23-Nov-12	79																																				
MS1090G	GUARANTEED SUBSTANTIAL COMPLETION	0	0	0%		01-Jun-13*	0																																				
MS1090D	SUBSTANTIAL COMPLETION - EXHIBIT D	0	0	0%		01-Jun-13*	0																																				
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MS0500	ENGR RELEASE	0	0	100%	03-Feb-11 A																																						
MS0104	MOBILIZE TO PROJECT SITE	0	0	100%	09-May-11 A																																						
MS1010	START CONSTRUCTION	0	0	100%	09-May-11 A																																						
MS1010A	START MEANINGFUL CONSTRUCTION	0	0	100%	23-May-11 A																																						
MS1095a	MEANINGFUL CONSTRUCTION COOLING TOWER	0	0	100%		23-Jun-11 A																																					
MS1095B	MEANINGFUL CONSTRUCTION UG CW PIPING	0	0	0%		27-Jun-11	4																																				
CS0CTWR1005	COOLING TOWER FNDN COMPLETE	0	0	0%		27-Oct-11*	2																																				
CS0CTWR1020	COOLING TOWER ERECTION START	0	0	0%	01-Nov-11*		48																																				
CS2RFF1	READY FOR RE-FIRE 3&2	0	0	0%		18-Jan-13	15																																				
CS2RFF2	READY FOR RE-FIRE 4&1	0	0	0%		18-Jan-13	23																																				
EP2106	STG INITIAL SYNC	0	0	0%		19-Mar-13	0																																				
EP0090	TARGET SUBSTANTIAL COMPLETION	0	0	0%		01-May-13	0																																				
MS9000	PROJECT DEMOBILIZATION	0	0	0%		15-Jul-13	0																																				
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<b>LNTF APPENDIX SUBMITTALS / DELIVERABLES</b>																																											
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<b>ENGINEERING PACKAGES</b>																																											
<b>GEOTECHNICAL INVESTIGATIONS, STUDIES, AND RECOMMENDATIONS</b>																																											

Remaining Level of Effort    
  Remaining Work  
 Actual Work                    
  Critical Remaining Work



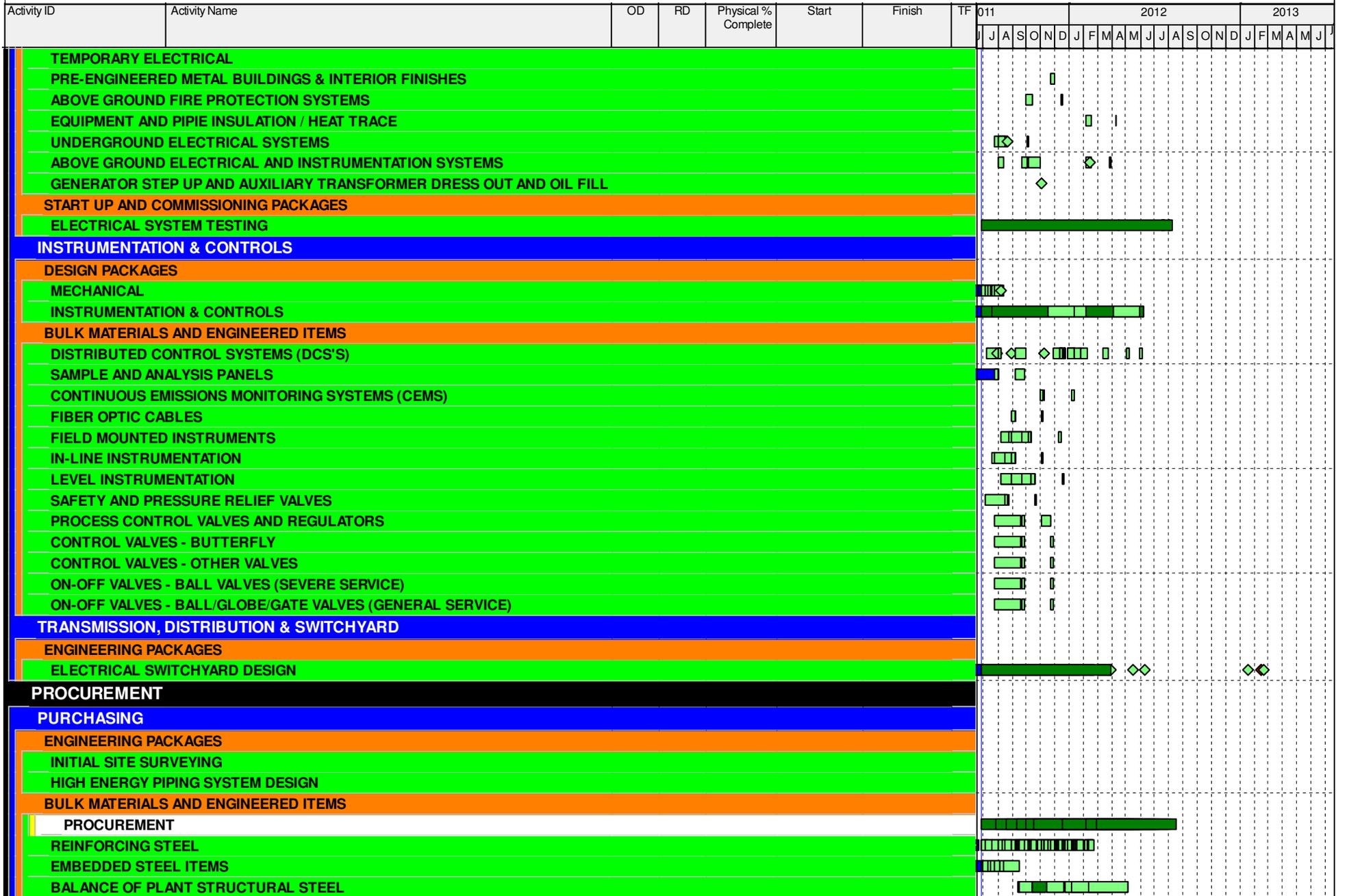


Remaining Level of Effort
  Remaining Work  
 Actual Work
  Critical Remaining Work









Remaining Level of Effort    
  Remaining Work  
 Actual Work    
  Critical Remaining Work









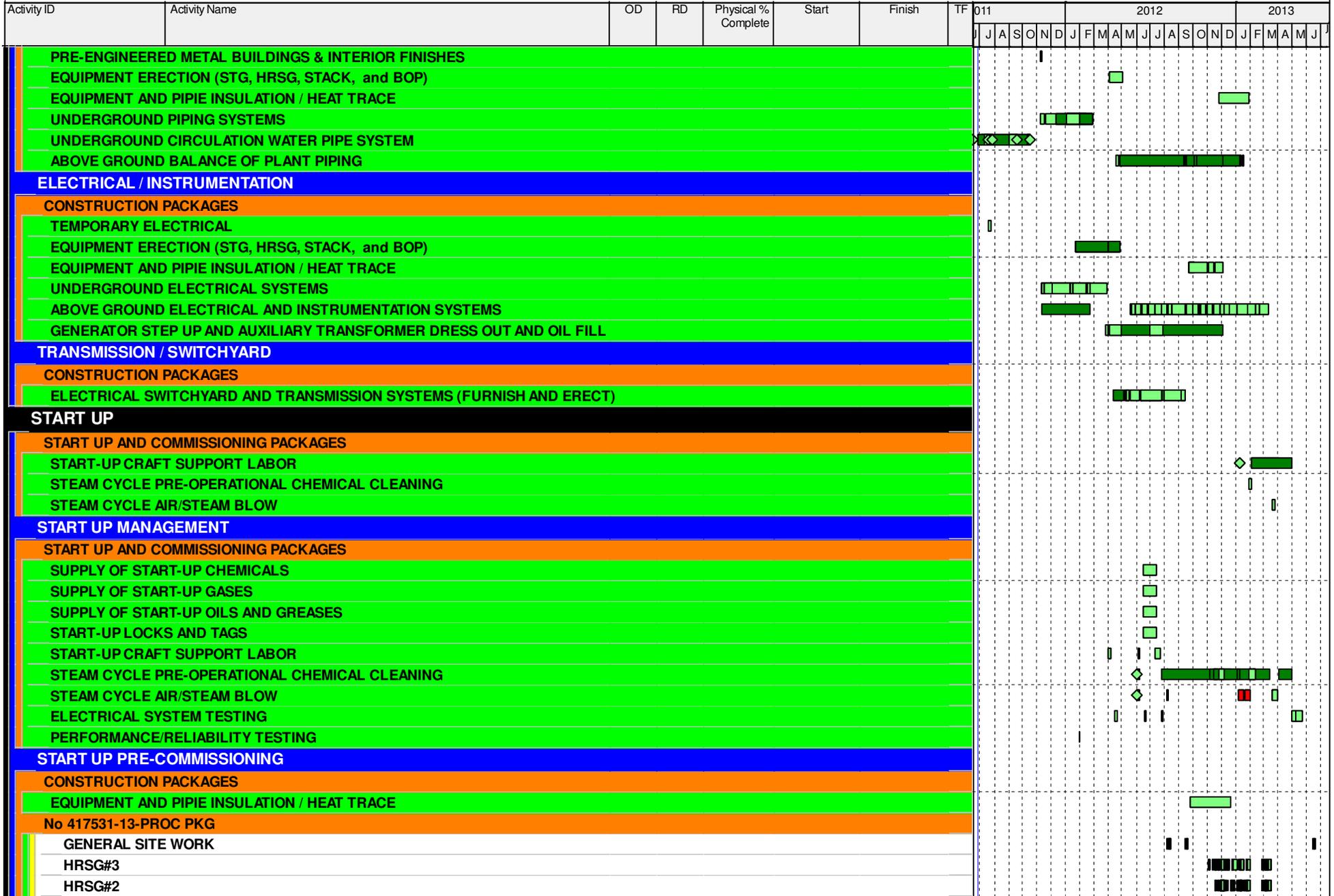




Activity ID	Activity Name	OD	RD	Physical % Complete	Start	Finish	TF	2011												2012												2013											
								J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J												
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UNDERGROUND CIRCULATION WATER PIPE SYSTEM																																											
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NON DESTRUCTIVE TESTING																																											
UNDERGROUND ELECTRICAL SYSTEMS																																											
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ELECTRICAL SWITCHYARD AND TRANSMISSION SYSTEMS (FURNISH AND ERECT)																																											
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HAZARDOUS SOILS EXCAVATION AND HANDLING																																											
GENERAL SITE WORK																																											
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PRE-ENGINEERED METAL BUILDINGS & INTERIOR FINISHES																																											
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<b>BOP MECHANICAL</b>																																											
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<b>CONSTRUCTION PACKAGES</b>																																											
TEMPORARY WATER AND SEWER																																											

Remaining Level of Effort    
  Remaining Work  
 Actual Work    
  Critical Remaining Work





Remaining Level of Effort    
  Remaining Work  
 Actual Work    
  Critical Remaining Work









**CONDITION OF CERTIFICATION  
CUL-4**

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

**Los Esteros Critical Energy Facility, Phase 2  
 WORKER AWARENESS ENVIRONMENTAL PROGRAM  
 TRAINING SIGN-IN SHEET**  
*(Biology, Archaeology, & Paleontology)*

DATE: 7/5/11

**PLEASE NOTE:**

*By signing below, I acknowledge that I have attended the Worker Environmental Awareness Program Training for the Los Esteros Critical Energy Facility, Phase 2, and I agree to comply with all the environmental requirements presented.*

	Name (print)	Name (signature)	Company/Role
75167	Mark Schindler		Soles
75168	JOSE CORNEJO		D V &
75169	CHARLES M. DETERS		LG / CONTRACTS
	JOSE CORNEJO		

**Los Esteros Critical Energy Facility, Phase 2  
 WORKER AWARENESS ENVIRONMENTAL PROGRAM  
 TRAINING SIGN-IN SHEET**  
*(Biology, Archaeology, & Paleontology)*

DATE: 7/6/11

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	Name (print)	Name (signature)	Company/Role
	CHRIS DOWNS		BAY AREA CONSTRUCTION /
	William Kicite		PROJECT DIRECTOR
	JOE DAMICO		BAY AREA CONSTRUCTION

**Los Esteros Critical Energy Facility, Phase 2  
 WORKER AWARENESS ENVIRONMENTAL PROGRAM  
 TRAINING SIGN-IN SHEET**  
*(Biology, Archaeology, & Paleontology)*

DATE: 7/8/11

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Name (print)	Name (signature)	Company/Role
Gilberto Bobadilla	Gilberto Bobadilla	DURANI & VENABLES

**Los Esteros Critical Energy Facility, Phase 2  
 WORKER AWARENESS ENVIRONMENTAL PROGRAM  
 TRAINING SIGN-IN SHEET**  
*(Biology, Archaeology, & Paleontology)*

DATE: 7/11/11

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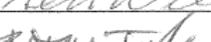
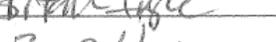
	Name (print)	Name (signature)	Company/Role
75174	Brian Hegardt	B. Hegardt	Harder meck.
75175	GARY B KLOPPON	G. B. Kloppon	CONSTRUCTION MATERIALS TESTING
75176	Bill Rhinehart	Bill Rhinehart	D+B TRENCHING
75177	Charlie Vance	Charlie Vance	D+B TRENCHING
75178	Amador Valdovinos	Amador Valdovinos	D+B TRENCHING
75179	Miguel Valdiles	Miguel Valdiles	McClure Electric

**Los Esteros Critical Energy Facility, Phase 2  
 WORKER AWARENESS ENVIRONMENTAL PROGRAM  
 TRAINING SIGN-IN SHEET**  
*(Biology, Archaeology, & Paleontology)*

DATE: 7/13/11

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Name (print)	Name (signature)	Company/Role
MITCH LUND		MODSPACE PEST. MGR.
ROMAN ROCHA		HARDER MECH. PLUMBER
Robert Ruiz		McClure/Daiga
KENNETH DUTTON		HARDER MECH. PLUMBER
Kenneth Wills		" " Fitter
Brian Ingle		DURAN & VENEABLES
BRUCE HANSEN		DURAN & VENEABLES
WILLIE RICHARDSON		I W / DURAN & VENEABLES
SCOTT DUNN		DURAN & VENEABLES

**Los Esteros Critical Energy Facility, Phase 2  
 WORKER AWARENESS ENVIRONMENTAL PROGRAM  
 TRAINING SIGN-IN SHEET**  
*(Biology, Archaeology, & Paleontology)*

DATE: 7/14/11

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Name (print)	Name (signature)	Company/Role
Roberto R Mendez	<i>[Signature]</i>	HARDER
JOSE LUIS FERNANDEZ	JOSE LUIS FERNANDEZ	HARDER

**Los Esteros Critical Energy Facility, Phase 2  
 WORKER AWARENESS ENVIRONMENTAL PROGRAM  
 TRAINING SIGN-IN SHEET**  
*(Biology, Archaeology, & Paleontology)*

DATE: 7/13/11

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Name (print)	Name (signature)	Company/Role
Alberto Rumbalca	<i>[Signature]</i>	Duran & Venables
Dante Marcos	<i>[Signature]</i>	McClure Electric
Ricardo Ibarra	<i>[Signature]</i>	T3-D Trenching
Diane Lags	Diane Lags	CH2M Hill

**Los Esteros Critical Energy Facility, Phase 2  
 WORKER AWARENESS ENVIRONMENTAL PROGRAM  
 TRAINING SIGN-IN SHEET**  
*(Biology, Archaeology, & Paleontology)*

DATE: 7/25/11

**PLEASE NOTE:**

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Name (print)	Name (signature)	Company/Role
Steven P. Kennedy	<i>Steven P. Kennedy</i>	McClure Electric
Michael J. Menne Jr.	<i>Michael J. Menne Jr.</i>	Harder / Welder
Robert Montalvo	<i>R. Montalvo</i>	MISTRAS
IAN POTERZ	<i>I. Poterz</i>	W. CONSTRUCTORS

**Los Esteros Critical Energy Facility, Phase 2  
 WORKER AWARENESS ENVIRONMENTAL PROGRAM  
 TRAINING SIGN-IN SHEET**  
*(Biology, Archaeology, & Paleontology)*

DATE: 7/27/11

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Name (print)	Name (signature)	Company/Role
Mario Hill	<i>Mario Hill</i>	CH2M HILL / IT
TOM THORSEN	<i>Tom Thorsen</i>	McClure Electric
Steve On	<i>Steve On</i>	CH2M HILL / IT
MARK PIXTON	<i>Mark Pixton</i>	CH2M HILL

**Los Esteros Critical Energy Facility, Phase 2**  
**WORKER AWARENESS ENVIRONMENTAL PROGRAM**  
**TRAINING SIGN-IN SHEET**  
*(Biology, Archaeology, & Paleontology)*

DATE: 7/27/11

**PLEASE NOTE:**

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Name (print)	Name (signature)	Company/Role
HARLAN HEYN		CH2M HILL

**CONDITION OF CERTIFICATION  
CUL-5**

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

## **Monthly Report of Cultural Resources Monitoring Activities for the Los Esteros Critical Energy Facility Phase 2 for June 21, 2011 through July 31, 2011; COC CUL-6**

**Prepared For:** Sarah Madams/SAC  
**Prepared By:** Clint Helton/CRS  
**Reporting For Period:** June 21 to July 31

This report covers cultural resources monitoring activities at the LECEF from June 21 through July 31, as requested by Rod Jones of Calpine, and as per Condition of Certification CUL-6.

### **Personnel Active in Cultural Monitoring This Period**

Henry Davis participated as CRM for this month.

### **Monitoring and Associated Activities This Period**

Monitoring of ground disturbance included continued excavation of the steam pipe trench, silt fence installation and exposure of a utility duct bank. New excavations were started for the Circulation Water Pit (CWP) and the Steam Turbine Generator (STG). A road was grubbed and graveled for the new Ranch Road access to the facility. Shallow (2 feet) trenching was done for the office trailer utilities. Native sub-soils were encountered during the steam pipe trenching; the CWP and the STG. Native sub-soils were at a depth of 4 to 5 feet from ground surface. The native soil is characterized as black silty clay overlaying light gray to yellow brown silty clays that may be intact depending on pre-fill topography. No native soils were encountered during the excavation of the cooling tower foundation or the duct bank. Weekly construction meetings were attended 7/14, 7/21 and 7/28.

### **Cultural Resources Discoveries This Period**

No new cultural resources discoveries were made during this period.

### **Anticipated Changes in the Next Period**

Major excavation activities will continue inside the facility. The CRM will remain on site to continue monitoring and to respond to discoveries if they occur.

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

None.

**CONDITION OF CERTIFICATION  
PAL-4**

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

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**Report of Paleontological Resources Compliance Activities for Los Esteros Critical Energy Facility Phase 2  
June and July 2011; COC PAL-4**

**Prepared For:** Sarah Madams/SAC

**Prepared By:** Geof Spaulding, PRS/LAS

**Date:** July 31, 2011

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

**Training Conducted This Month**

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

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

Jaspal Saini, Paleontological Resources Monitor (PRM)

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

**Monitoring and Associated Activities This Period**

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

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

**Anticipated Changes in the Next Period**

No changes are anticipated at this time.

**Comments, Issues or Concerns**

None.

**CONDITION OF CERTIFICATION  
WASTE-5**

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



United States Environmental Protection Agency  
Region 9  
75 Hawthorne Street , (WST-6)  
San Francisco, CA 94105

**Acknowledgment Letter**

May 18, 2011

ROD JONES  
800 THOMAS FOON CHEW WAY  
SAN JOSE, CA 95134

By obtaining a United States Environmental Protection Agency (EPA) Identification (ID) Number, you have notified EPA of your planned hazardous waste activities that are regulated under the Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations. The assigned EPA ID Number was based on the information that was provided on the EPA Form 8700-12, Notification of RCRA Subtitle C Activity, which was received on **04/27/2011**. Your EPA ID number (also referred to as RCRA ID Number) below is specific to the location indicated on the RCRA Site Location, and cannot be used at, or transferred to another location.

EPA (RCRA) ID #: CAR000218420  
RCRA Site Name: LOS ESTEROS CRITICAL ENERGY FACILITY PHASE 2  
RCRA Site Location: 800 THOMAS FOON CHEW WAY  
SAN JOSE, CA 95134

The EPA ID Number is to be used on transport manifests and any other hazardous waste management documentation required under the RCRA Subtitle C Regulations.

EPA has listed your hazardous waste activities status as:

**Small Quantity Generator**

Your EPA ID Number does not expire. However, if any of the information required in the form changes, (e.g. RCRA Site Name, hazardous waste activity status, contact information, etc.), you may be required to notify EPA by resubmitting a Form 8700-12 (see the instructions accompanying Form 8700-12 at <http://www.epa.gov/osw/inforesources/data/form8700/8700-12.pdf>). If you plan to cease or have ceased operation at the RCRA Site Location, you must notify EPA as well. For this, you could send a letter to EPA requesting to inactivate the EPA ID Number. A letter will be sent to the contact person indicating the change(s) based on the submitted documentation.

Please keep in mind that if you have the hazardous waste activity status of a “**Large Quantity Generator**”, there is a required Biennial Reporting that must be filed with your appropriate state or region. For more information, please visit <http://www.epa.gov/epawaste/inforesources/data/form8700/contact.pdf> to find the contacts for States and EPA Regions. If you have any RCRA Notification (EPA ID Number) questions, please call 415-495-8895. This RCRA Notification service telephone line is operated by EPA Region 9’s Contractor, Tetra Tech EM, Inc.

**CONDITION OF CERTIFICATION  
SOCIO-1**

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

August 3, 2011

**ACTIVITIES REPORT FOR SOCIO -1**

Work contracted to date utilizing Labor from the Bay Area:

- **TELECOM/McClure Electric** Trailer City electrical and communication installation
- **MISSION CITY REBAR INC** Reinforcing Steel
- **Modular Space Corporation** Leasing Of Temporary Office And Craft Trailers
- **HOMESITE SERVICES INC** Leasing of Construction Waste Dumpsters
- **HANSON & FITCH INC** Leasing of Temporary Toilets and Hand Wash Stations
- **Kier & Wright Civil Engineers and Surveyors, Inc.** Construction Survey
- **TRC ENGINEERS INC** Construction Materials Inspections and Testing
- **JAN PRO COMMERCIAL CLEANING** Temporary Facilities (Trailers) Cleaning
- **TRC ENGINEERS INC.** Hazardous Soils Testing
- **Central Concrete Supply** Ready Mix Concrete
- **C. Overaa & Co.** General Site Grading and Foundations
- **Harder Mechanical** CW Pipe Installation
- **Hanson CW Pipe** Mfg'd in Illinois because only supplier that could make Project Schedule delivery dates on site.
- **To Be Awarded** Temporary Fencing

No additional awards are currently forecasted for next 2 month

**CONDITION OF CERTIFICATION  
TRANS-1**

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

## Los Esteros Critical Energy Facility Conditions of Certification – Construction Trip Generation Rates

TO: Rodney Jones/Calpine  
 COPIES: Sarah Madams/CH2MHill  
 FROM: Graham Satterwhite/CH2MHill  
 DATE: July 8, 2011

The purpose of this memorandum is to document compliance with the Condition of Certification (COC) Trans-1 regarding monitoring of intersection operations during construction.

Construction of the Los Esteros Critical Energy Facility (LECEF) began May 9, 2011. As a baseline for pre-construction traffic conditions, turning movement counts were conducted at the intersections of McCarthy Road/eastbound SR 237 ramps, McCarthy Road/westbound SR 237 ramps, and McCarthy Road/Ranch Drive in the AM and PM peak periods on May 3, 2011. Turning movement counts were again conducted on July 6, 2011 to reflect during construction traffic conditions. These turning movements were used to compute average intersection delay and the corresponding Level of Service (LOS). The relationship of delay and LOS at signalized intersections is summarized in Table 1.

TABLE 1  
 Intersection Level of Service Criteria

LOS	Unsignalized Intersection Delay per Vehicle (seconds)	Signalized Intersection Delay Per Vehicle (seconds)
A	≤10.0	≤ 10.0
B	>10.0 and ≤15.0	>10.0 and ≤20.0
C	>15.0 and ≤25.0	>20.0 and ≤35.0
D	>25.0 and ≤35.0	>35.0 and ≤55.0
E	>35.0 and ≤50.0	>55.0 and ≤80.0
F	>50.0	>80.0

Source: Highway Capacity Manual, 2000

Tables 2 and 3 indicate the AM and PM pre-construction and during construction traffic operations at these intersections.

TABLE 2  
Study Intersection AM Peak Hour Operations –Pre Construction and During Construction

#	Study Intersection	Traffic Control	Pre Construction (5/3/11)		During Construction (7/6/11)	
			Delay	LOS	Delay	LOS
1	McCarthy Road/Eastbound SR 237 Ramps	Signal	17.0	B	16.7	B
2	McCarthy Road/Westbound SR 237 Ramps	Signal	17.3	B	18.6	B
3	McCarthy Road/Ranch Drive	Signal	20.1	C	15.3	B

Caltrans LOS Threshold = D

Santa Clara County LOS Threshold = D

**Bold** indicates intersection with LOS exceeding relevant agency threshold

TABLE 3  
Study Intersection PM Peak Hour Operations –Pre Construction and During Construction

#	Study Intersection	Traffic Control	Pre Construction (5/3/11)		During Construction (7/6/11)	
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2	McCarthy Road/Westbound SR 237 Ramps	Signal	22.3	C	19.7	B
3	McCarthy Road/Ranch Drive	Signal	31.2	C	23.3	C

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Santa Clara County LOS Threshold = D

**Bold** indicates intersection with LOS exceeding relevant agency threshold

Overall, traffic operations near the Los Esteros Critical Energy Facility project have remained the same, or improved slightly since before construction of the Los Esteros Critical Energy Facility began in May 2011. Future intersection analysis should compare operational results to the pre-construction condition and the Caltrans and Santa Clara County LOS thresholds to determine compliance with the identified COC.

**CONDITION OF CERTIFICATION  
TRANS-1**

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

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Overall, traffic operations near the Los Esteros Critical Energy Facility project have remained the same, or improved slightly since before construction of the Los Esteros Critical Energy Facility began in May 2011. Future intersection analysis should compare operational results to the pre-construction condition and the Caltrans and Santa Clara County LOS thresholds to determine compliance with the identified COC.

**CONDITION OF CERTIFICATION  
TRANS-4**

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

**Work Done to Support TRANS-4:**

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