

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

**Monthly Compliance Report #10**

**LOS ESTEROS CRITICAL ENERGY FACILITY, LLC**

March 2012

For

California Energy Commission

**Los Esteros Critical Energy Facility, Phase 2  
(03-AFC-2)  
Monthly Compliance Report #10**

1. LECEF Project Construction Status

Construction continued during the monthly reporting compliance period focusing primarily on the cooling tower basin (CT), generator step-up transformer (GSU), steam turbine generator (STG) foundation, and heat recovery steam generators (HRSG); key components of the Los Esteros Critical Energy Facility's infrastructure. There were no significant delays or changes to the project schedule. The project is approximately 26.77% complete (cumulative through March 30, 2012) and construction is at 15.40%.

Work continues to proceed with engineering, procurement, permitting and compliance (i.e., environmental monitors) as well as scheduling and construction planning. In addition, submittals to the Chief Building Official (CBO) continue as the site undergoes transformation. Harder Mechanical continues with erecting the new HRSG duct sections and installing pipe rack foundation. Cooling Tower Depot, LECEF's vendor appears to be progressing nicely with building the six-cell cooling tower, and should finish this part of the project during the May/June time frame. After construction has been completed the cooling tower will have to go through a strict testing process by LECEF's vendor (to be determined) before being approved for operation.

Site excavation is starting to dwindle and over the next couple of months there will likely be less need for a Cultural Resources Monitor onsite. LECEF staff will continue to monitor the excavation activities of the project, and will inform the CBO and CPM when it is necessary to make an adjustment in this area of environmental monitoring.

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

- Completed installation of forms, rebar, and embedments on northwest Section of large Pipe Rack foundation and two smaller foundations located on the west side
- Completed installation of forms, rebar, and new pipe sleeves in the Boiler Blow-down Sump Lids. Completed installation of 6" pipe spools inside of sumps
- Completed static head test and holiday testing on the WWC drain pipe at the STG Pipe Rack Spreader and at the GSU
- Completed hydro test and holiday test of the reworked 4" demineralized water line from new Water Treatment area to existing cooling tower basin per new revisions
- Completed installation of new Fuel Gas drain lines from new Filter Separator and Gas Compressor to existing Fuel Gas underground drain tank
- Completed installation of conduits and rebar for duct-bank from MH-001 to Cooling Tower. Placed concrete on 3/23/12
- Completed hydro-test of new Fuel Gas drain lines from new Filter Separator and Gas Compressor to existing Fuel Gas underground drain tank
- Concrete was placed for the Boiler Blow-down Sump Lids on 3/27/12
- Concrete was placed for the new Sanitary Sewer Lift Station

Work in Progress:

- Continue running temporary power to all HRSG's

- Installation of sole plates and anchor bolt repairs completed on all Units and field is verifying final locations. Continue installing and welding added anchor bolt chairs and stiffeners plates at existing selective catalytic reduction (SCR) columns at all HRSG Units
- Continued receiving Vogt Material; High Pressure Steam Drums, Module Insulation, and Large Bore Pipe Supports. Inventory of Vogt received material is in progress
- Continue receiving and setting Vogt HRSG inlet duct sections and a Unit 1 Module Box Continue welding on/off lifting lugs
- Continue erecting scaffolds at HRSG's for new dampers and at field weld seam at inlet ducts. Continued completing bolt-ups and welding field seams at all HRSG inlet ducts Continue seam welding field joints at new HRSG 3 Inlet Ducts
- Continue installation of Cooling Tower; plume abatement coils, fill material and distribution piping
- Calpine continues to inventory all Vogt supplied material in laydown yard
- Calpine Operations & Maintenance completed the removal of LM-6000 Gas Turbine at CTG Unit 3 enclosure
- Continue installation of forms and rebar at Pipe Rack foundations north of the STG Concrete was placed for the two smaller Pipe Rack Foundations on 3/27/12
- Started installation of temporary warehouse tent
- Started installation of new WWC piping at Units 1 and 4 BBS tank and BBS Sump locations
- Installation of sole plates and anchor bolt repairs completed on all Units and field is verifying final locations. Continue installing and welding added anchor bolt chairs and stiffeners plates at existing SCR columns at all HRSG Units
- Continued receiving Vogt Material; IP Steam Drums, IP Flash Tanks, Structural Steel, and remaining Duct Burner elements and assemblies. Inventory of Vogt received material is in progress
- Continue receiving and setting Vogt HRSG Inlet Duct Sections and a Module Boxes
- Continue welding on/off lifting lugs. Started installation of inter-box spools casings and stiffener beams
- Continue erecting scaffolds at HRSG's for new dampers and at field weld seam at inlet ducts and module boxes. Continued completing bolt-ups and welding field seams at all HRSG inlet ducts. Continued welding field seams at Inlet Ducts and started installing insulation
- Started to preassemble the Large Bore Pipe spools and valves that were shipped loose
- Started Assembling Manitowoc 2250 crane to set Hyundai GSU Transformer. Received Hyundai GSU material on site
- Continue installation of Cooling Tower; plume abatement coils, fill material and distribution piping
- LECEF continues to inventory all Vogt supplied material in laydown yard
- LECEF continued reviewing submittals from LECEF Equipment vendors and CH2MHILL

2. Table of Required Monthly Compliance Report Documents

COM-6	N/A, requirement met	AQ-3	N/A, first fire
GEN-2	A copy of the most recent schedule is attached	AQ-4	N/A, first fire
GEN-3	Email from CBO confirming receipt of payment is attached	AQ-6	N/A, first fire
GEN-6	A copy of the most recent information 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	None this month	BIO-2	A copy of the Designated Biologist's summary report is attached
CIVIL-3	A copy of the NCR log is attached	BIO-4	The number of WEAP participants is provided including cumulative total
CIVIL-4	N/A. Applicable work not complete for the reporting period	BIO-20	None this month
STRUC-1	A copy of the most recent information is attached	BIO-21	No additional information required
STRUC-3	N/A. Applicable work not complete for the reporting period	CUL-2	A copy of the anticipated project activity is attached
STRUC-4	N/A. Applicable work not complete for the reporting period	CUL-4	A copy of the acknowledgement forms for the reporting period is attached
MECH-1	A copy of the most recent information is attached	CUL-5	A copy of the CRS Monitor's report is attached
MECH-2	N/A. Applicable work not complete for the reporting period	PAL-3	N/A, requirement met
ELEC-1	A copy of the most recent information is attached	PAL-4	A copy of the PRS Monitor's report is attached
TSE-1	N/A. Applicable work not complete for the reporting period	WASTE-5	N/A. A copy of the USEPA, Region 9 RCRA ID was submitted in previous MCR
TSE-4	A copy of the most recent information is attached	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 the latest construction volume counts will be included in the April MCR
AQ-SC5	Information is provided for this COC, as attached	TRANS-2	A copy of the permits is attached
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:

No conditions satisfied during the reporting period

### 5. Submitted Deadline Not Met

There are no past due compliance submittals.

### 6. Approved Condition of Certification Changes

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

7. Filings of Permits from other agencies

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

8. Projection of Compliance Activities for April

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

9. Additions to the On-site Compliance File

- WEAP training records
- Cultural Monitoring Reports
- Paleontology Monitoring Reports
- Biological Monitoring Reports
- Chemical Inventory List

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

No items disposed of during the reporting period.

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

None received during the reporting period.

**CONDITION OF CERTIFICATION  
GEN-2**

**Los Esteros Critical Energy Facility, Phase 2  
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Activity ID	Activity Name	OD	RD	TF	% Comp	Start	Finish	March 2012			April 2012							
								12	19	26	02	09	16					
<b>CIVIL / STRUCTURAL / ARCHITECTURAL</b>																		
<b>GENERAL SITE WORK</b>																		
<b>CONCRETE</b>																		
CS0OWS125	Complete BACKFILL /REPLACE STONE OIL WATER SEPERATOR FDN	2d	2d	39d	0%	02-Apr-12*	03-Apr-12											
<b>MAJOR AND MISC STRUCTURAL CONCRETE</b>																		
<b>CONCRETE</b>																		
CS2WW-1UGSMP	Exc/Form/Rebar/Pour SUMP#2 SUMPS	20d	2d	19d	33%	12-Dec-11 A	27-Mar-12											
CS3WW-1UGSMP	Exc/Form/Rebar/Pour SUMP#3 SUMPS	20d	2d	19d	33%	12-Dec-11 A	27-Mar-12											
CS1WW-1UGSMP	Exc/Form/Rebar/Pour SUMP#1 SUMPS	20d	2d	28d	90%	13-Dec-11 A	27-Mar-12											
CS4WW-1UGSMP	Exc/Form/Rebar/Pour SUMP#4 SUMPS	20d	2d	28d	33%	13-Dec-11 A	27-Mar-12											
CS0CN-F01	EXCAV for Cond Pmps Fdn/Set cans/Form/Rebar	20d	9d	30d	55%	09-Feb-12 A	05-Apr-12											
CS0RCKF120	New SW Piperack Fdn Section - Form/Rebar	10d	11d	39d	0%	23-Feb-12 A	09-Apr-12											
CS0RCKF160	New NE Piperack Fdn Section - Form/Rebar	10d	5d	46d	50%	02-Mar-12 A	30-Mar-12											
CS0CW1013	BACKFILL CCW HT EXCHANGER FNDN	1d	0d		100%	21-Mar-12 A	21-Mar-12 A											
CS0FGSF03	BACKFILL FG COMPRESSOR FNDN	1d	1d	61d	0%	26-Mar-12*	26-Mar-12											
CS0RCKF150	New NW Piperack Fdn Section - Pour	1d	1d	48d	0%	26-Mar-12	26-Mar-12											
CS0STGF250	FORM/REBAR STG LUBE OIL UNIT slab on Grade	5d	5d	43d	0%	28-Mar-12*	03-Apr-12											
CS0HAZMAT12	POUR CONCRETE HAZ MATL STG EXPANSION FNDN	1d	1d	53d	0%	30-Mar-12*	30-Mar-12											
CS0AUXB099	EXCAV/FORM/REBAR FNDN ELEC STM BOILER GA - Item #71	15d	15d	37d	0%	02-Apr-12*	20-Apr-12											
CS0STG1095	EXCAV/FORM/REBAR 15 kV BUS FDNS - STG GSU	15d	15d	138d	0%	02-Apr-12	20-Apr-12											
CS0STGF244	POUR CONCRETE STG LUBE OIL UNIT Slab on Grade	1d	1d	43d	0%	04-Apr-12	04-Apr-12											
CS0HAZMAT14	BACKFILL CONCRETE HAZ MATL STG EXPANSION FNDN	1d	1d	53d	0%	05-Apr-12	05-Apr-12											
CS0CN-F03	POUR CONCRETE COND PUMPS (Cans)	1d	1d	40d	0%	06-Apr-12	06-Apr-12											
CS0RCKF180	New SE Piperack Fdn Section - Form/Rebar	10d	10d	30d	0%	06-Apr-12	19-Apr-12											
CS0STGF252	FORM/REBAR STG LUBE OIL UNIT Walls and Piers	5d	5d	43d	0%	06-Apr-12	12-Apr-12											
CS3HRSG100	FORM/REBAR HRSG#3 & #2 BLOWDOWN TANK FDN	10d	10d	6d	0%	09-Apr-12*	20-Apr-12											
CS4HRSG100	FORM/REBAR HRSG#4 & #1 BLOWDOWN TANK FDN	10d	10d	15d	0%	09-Apr-12*	20-Apr-12											
CS0SWAF01	EXCAV/FORM/REBAR SAMPLE PANEL FDN	8d	8d	42d	0%	09-Apr-12*	18-Apr-12											
CS0STGF402	EXCAV/FORM/REBAR CONDENSER VACCUM PUMP FOUNDATION	19d	19d	28d	0%	09-Apr-12*	03-May-12											
CS0CN-F02	Form/Rebar for Cond Pumps Fdn Slab on Grade and Walls	10d	10d	40d	0%	09-Apr-12	20-Apr-12											
CS0STGF249	POUR CONCRETE STG LUBE OIL UNIT Walls and Piers	1d	1d	43d	0%	13-Apr-12	13-Apr-12											
CS0STGF230	EXCAV/FORM/REBAR STG MAINT PAD FOUNDATION	10d	10d	30d	0%	17-Apr-12*	30-Apr-12											
CS0STGF244A	BACKFILL CONCRETE STG LUBE OIL UNIT FOUNDATION	3d	3d	43d	0%	17-Apr-12	19-Apr-12											
CS0CN-F34	Exc/Form/Rebar OWS Slab on Grade	10d	10d	30d	0%	17-Apr-12*	30-Apr-12											
CS0STGF240A10	BACKFILL CONCRETE STG Crane PAD	3d	3d	43d	0%	17-Apr-12*	19-Apr-12											
CS0SWAF02	POUR CONCRETE SAMPLE PANEL FDN	1d	1d	42d	0%	19-Apr-12	19-Apr-12											
CS0SWAF03	BACKFILL SAMPLE PANEL FDN	1d	1d	42d	0%	20-Apr-12	20-Apr-12											

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

Activity ID	Activity Name	OD	RD	TF	% Comp	Start	Finish	March 2012			April 2012			
								12	19	26	02	09	16	
CS0RCKF190	New SE Piperack Fdn Section - Pour	1d	1d	30d	0%	20-Apr-12	20-Apr-12							
<b>PRE-ENGINEERED METAL BUILDINGS &amp; INTERIOR FINISHES</b>														
<b>PRE-ENGR BLDGS</b>														
CSKB1165	4200-014, PE Bldg - Site Mobilization per Sub Schd 3-19-12=>3-30-12	10d	10d	35d	0%	13-Apr-12*	26-Apr-12							
<b>HRSG ERECTION</b>														
<b>INSTALL HRSG AND CONDENER</b>														
<b>No LE-WBS4</b>														
CS3HRSG1201	HRSG3-Install Base Plates & A.B.'sAll Bays	9d	0d		100%	21-Feb-12 A	20-Mar-12 A	█						
CS2HRSG1201	HRSG2-Install Base Plates & A.B.'sAll Bays	9d	1d	137d	8.89%	24-Feb-12 A	26-Mar-12	█						
CS4HRSG1201	HRSG4-Install Base Plates & A.B.'sAll Bays	9d	5d	25d	4.44%	01-Mar-12 A	30-Mar-12	█						
CS3HRSG1232	HRSG3-Install Ductwork Bay B - And Weldout	3d	2d	319d	3.33%	02-Mar-12 A	27-Mar-12	█						
CS1HRSG1201	HRSG1-Install Base Plates & A.B.'sAll Bays	9d	8d	28d	1.11%	02-Mar-12 A	04-Apr-12	█						
CS3HRSG1230	HRSG3-Install Ductwork Bay C - And Weldout	3d	2d	73d	3.33%	03-Mar-12 A	27-Mar-12	█						
CS2HRSG1234	HRSG2-Install Ductwork Bay A - And Weldout	3d	6d	132d	0%	07-Mar-12 A	02-Apr-12	█						
CS2HRSG1232	HRSG2-Install Ductwork Bay B - And Weldout	3d	8d	313d	0%	08-Mar-12 A	04-Apr-12	█						
CS2HRSG1230	HRSG2-Install Ductwork Bay C - And Weldout	3d	10d	311d	0%	09-Mar-12 A	06-Apr-12	█						
CS4HRSG1234	HRSG4-Install Ductwork Bay A - And Weldout	5d	6d	24d	0%	16-Mar-12 A	02-Apr-12	█						
CS4HRSG1232	HRSG4-Install Ductwork Bay B - And Weldout	7d	2d	28d	1.43%	20-Mar-12 A	27-Mar-12	█						
CS4HRSG1227	HRSG4-Install Ductwork Bay D	7d	2d	28d	1.43%	21-Mar-12 A	27-Mar-12	█						
CS4HRSG1230	HRSG4-Install Ductwork Bay C - And Weldout	7d	4d	26d	2.86%	21-Mar-12 A	29-Mar-12	█						
CS1HRSG1234	HRSG1-Install Ductwork Bay A - And Weldout	5d	5d	31d	0%	21-Mar-12 A	30-Mar-12	█						
CS1HRSG1232	HRSG1-Install Ductwork Bay B - And Weldout	7d	5d	31d	8.57%	22-Mar-12 A	30-Mar-12	█						
CS3HRSG1210	HRSG3-Install Module Bay 1	2d	1d	80d	50%	23-Mar-12 A	26-Mar-12	█						
CS1HRSG1227	HRSG1-Install Ductwork Bay D	7d	6d	30d	4.29%	23-Mar-12 A	02-Apr-12	█						
CS1HRSG1230	HRSG1-Install Ductwork Bay C - And Weldout	7d	6d	30d	4.29%	23-Mar-12 A	02-Apr-12	█						
CS3HRSG1208	HRSG3-Install Module Bay 2	2d	2d	135d	0%	26-Mar-12	27-Mar-12	█						
CS3HRSG1202	HRSG3-Install Module Bay 5	2d	2d	72d	0%	27-Mar-12*	28-Mar-12	█						
CS3HRSG1275	HRSG3 - Weldout Ductwork From Bay D to Module Box 1	0d	0d	164d	0%	27-Mar-12	27-Mar-12							
CS3HRSG1203	HRSG3-Install Module Bay 4	2d	2d	72d	0%	28-Mar-12	29-Mar-12	█						
CS3HRSG1205	HRSG3-Install Module Bay 3	3d	3d	72d	0%	29-Mar-12	02-Apr-12	█						
CS3HRSG1204	HRSG3-Install Insul/Liner Bay 5 to 4	4d	4d	127d	0%	30-Mar-12	04-Apr-12	█						
CS2HRSG1210	HRSG2-Install Module Bay 1	2d	2d	72d	0%	30-Mar-12	02-Apr-12	█						
CS2HRSG1208	HRSG2-Install Module Bay 2	2d	2d	142d	0%	02-Apr-12	03-Apr-12	█						
CS2HRSG1202	HRSG2-Install Module Bay 5	2d	2d	132d	0%	03-Apr-12	04-Apr-12	█						
CS2HRSG1212	HRSG2-Install HP Drum	4d	4d	72d	0%	03-Apr-12	06-Apr-12	█						
CS2HRSG1275	HRSG2 - Weldout Ductwork From Bay D to Module Box 1	10d	10d	149d	0%	03-Apr-12	16-Apr-12	█						
CS2HRSG1203	HRSG2-Install Module Bay 4	2d	2d	132d	0%	04-Apr-12	05-Apr-12	█						

█ Remaining Level of Effort    █ Remaining Work  
█ Actual Work                    █ Critical Remaining Work

Activity ID	Activity Name	OD	RD	TF	% Comp	Start	Finish	March 2012			April 2012			
								12	19	26	02	09	16	
CS3HRSG1206	HRSG3-Install Insul/Liner Bay 4 to 3	2d	2d	127d	0%	05-Apr-12	06-Apr-12							
CS2HRSG1205	HRSG2-Install Module Bay 3	2d	2d	135d	0%	05-Apr-12	06-Apr-12							
CS2HRSG1204	HRSG2-Install Insul/Liner Bay 5 to 4	4d	4d	132d	0%	06-Apr-12	11-Apr-12							
CS3HRSG1209	HRSG3-Install Insul/Liner Bay 3 to 2	4d	4d	127d	0%	09-Apr-12	12-Apr-12							
CS3HRSG1212	HRSG3-Install HP Drum	4d	4d	71d	0%	09-Apr-12*	12-Apr-12							
CS2HRSG1206	HRSG2-Install Insul/Liner Bay 4 to 3	4d	4d	132d	0%	12-Apr-12	17-Apr-12							
CS3HRSG1211	HRSG3-Install Insul/Liner Bay 2 to 1	4d	4d	127d	0%	13-Apr-12	18-Apr-12							
CS2HRSG1209	HRSG2-Install Insul/Liner Bay 3 to 2	4d	4d	132d	0%	18-Apr-12	23-Apr-12							
<b>BOP MECHANICAL</b>														
<b>INSTALL HRSG AND CONDENSER</b>														
<b>BOP EQPT ERECTION</b>														
CS0CN-D1003	SET CONDENSER & SKIDS (need to break this activity out further)	60d	60d	55d	0%	17-Apr-12	11-Jul-12							
<b>PIPING</b>														
<b>PRE-ENGINEERED METAL BUILDINGS &amp; INTERIOR FINISHES</b>														
<b>PRE-ENGR BLDGS</b>														
CSKB1120	4200-014, PE Bldg - Review & Approve Subcontract Plumbing/Piping Submittal	11d	1d	218d	0.91%	29-Feb-12 A	26-Mar-12							
<b>UNDERGROUND PIPING SYSTEMS</b>														
<b>UG PIPING</b>														
CS0WU-U02	INSTALL U/G WW PIPING-STG /OWS AREA TO PROC SUMP	50d	16d	30d	15%	02-Nov-11 A	16-Apr-12							
CS0BVDU10	FAB & NSTALL U/G BBS PIPING	30d	26d	46d	15%	09-Jan-12 A	30-Apr-12							
CS0DWPUI0	INSTALL U/G PIPING-CTG AREA TO CYCLE CF SKID	30d	26d	46d	5%	25-Jan-12 A	30-Apr-12							
<b>ABOVE GROUND BALANCE OF PLANT PIPING</b>														
<b>No LE-WBS4</b>														
CSK211655	4400-004, AG BOP PIPING - Site Mobilization	5d	5d	14d	0%	09-Apr-12	13-Apr-12							
<b>ELECTRICAL / INSTRUMENTATION</b>														
<b>INSTALL HRSG AND CONDENSER</b>														
<b>ELECT EQPT</b>														
CS0STG1205	SET GSU TRANSFORMER - STG	1d	1d	133d	0%	06-Apr-12	06-Apr-12							
<b>UNDERGROUND ELECTRICAL SYSTEMS</b>														
<b>UG ELECT DUCTBANK</b>														
CS0GND1E10	GND-0-1 - INSTALL GOUND GRID	40d	16d	81d	30%	15-Jan-12 A	16-Apr-12							
CS0DB1320	UG DUCTBANK - INSTALL UG CONDUIT PDC 5 TO COOLING TOWER AREA	9d	0d		100%	01-Feb-12 A	22-Mar-12 A							
CS0DB1240	UG DUCTBANK - BACKFILL / REPLACE STONE WHSE TO SSW PUMP	1d	0d		100%	22-Mar-12 A	22-Mar-12 A							
CS0DB1330	UG DUCTBANK - POUR CONCRETE PDC 5 TO COOLING TOWER AREA	1d	0d		100%	23-Mar-12 A	23-Mar-12 A							
CS0DB1330A	UG DUCTBANK - CURE CONCRETE PDC 5 TO COOLING TOWER AREA	7d	5d	24d	8.57%	23-Mar-12 A	30-Mar-12							
CS0DB1340	UG DUCTBANK - BACKFILL / REPLACE STONE PDC 5 TO COOLING TOWERAREA	5d	5d	16d	0%	26-Mar-12	02-Apr-12							
CS0DB1400	UG DUCTBANK - EXCAVATE PDC 5 TO O/W SEPERATOR	4d	4d	11d	0%	09-Apr-12*	12-Apr-12							

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

Activity ID	Activity Name	OD	RD	TF	% Comp	Start	Finish	March 2012			April 2012				
								12	19	26	02	09	16		
CS0DB1420	UG DUCTBANK - INSTALL UG CONDUIT PDC 5 TO O/W SEPERATOR	4d	4d	11d	0%	13-Apr-12	18-Apr-12								
CS0DB1430	UG DUCTBANK - POUR CONCRETE PDC 5 TO O/W SEPERATOR	1d	1d	11d	0%	19-Apr-12	19-Apr-12								
CS0DB1430A	UG DUCTBANK - CURE CONCRETE PDC 5 TO O/W SEPERATOR	3d	3d	17d	0%	19-Apr-12	22-Apr-12								
CS0DB1440	UG DUCTBANK - BACKFILL / REPLACE STONE PDC 5 TO O/W SEPERATOR	2d	2d	12d	0%	20-Apr-12	23-Apr-12								

 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 #10  
March 2012**

## Rod Jones

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**From:** Don Wimberly <[dwimberly@aimscorp.com](mailto:dwimberly@aimscorp.com)>  
**Sent:** Thursday, April 05, 2012 7:59 AM  
**To:** Rod Jones  
**Subject:** RE: Receipt of CBO Payment for March 2012

Rod

Payment for March 2012 CBO services received.

Donald C. Wimberly, P.E.  
Delegate CBO  
Cell: 408-930-4066

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**From:** Rod Jones [<mailto:Rodney.Jones@calpine.com>]  
**Sent:** Wednesday, April 04, 2012 3:45 PM  
**To:** [dwimberly@aimscorp.com](mailto:dwimberly@aimscorp.com)  
**Subject:** RE: Receipt of CBO Payment for March 2012

Hi Don,

Per COC GEN-3, please confirm if you have received payment from Calpine for March 2012.

Kindest regards,

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

CONFIDENTIALITY NOTICE: The information in this e-mail may be confidential and/or privileged and protected by work product immunity or other legal rules. No confidentiality or privilege is waived or lost by mistransmission. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination, or copying of this e-mail and its attachments, if any, or the information contained herein is prohibited. If you have received this e-mail in error, please immediately notify the sender by return e-mail and delete this e-mail from your computer system. Thank you.

**CONDITION OF CERTIFICATION  
GEN-6**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**



## DISPOSITION

March 29, 2012

**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:** All documents listed per Transmittal 03051

## APPROVED

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

Sincerely,

Donald C. Wimberly  
Delegate CBO

Sent to Distribution List



## DISPOSITION

March 29, 2012

**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:** All documents listed per Transmittal 03020

## INFORMATION ONLY

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

Sincerely,

Donald C. Wimberly  
Delegate CBO

Sent to Distribution List



## Statement of Special Inspections – Part 2

Los Esteros Critical Energy Facility Phase 2  
Vogt Power Project No.: 17456 - Los Esteros

The HRSG was designed as an “Ordinary Moment Frame” per CBC 2010, IBC 2009, AISC 360-05, AISC 341-05 and AISC 358-05 for Seismic Design Category “D”.

All Special Inspections are required per Chapter 17, Sections 1704, 1707 and 1708.  
No other special inspections are required outside of the scope of Chapter 17.

### HRSG Structural Field Weld Inspection

Location/Description	Vogt Drawing:	Item	Weld	Type of Inspection		
				Continuous	Periodic	
<b>Inlet Duct Area</b>						
Detail N Inlet Duct Strut	V17456-ERND-004	20/006	1/4" Fillet Welds		X	
		20/006	3/16" Fillet Welds		X	
Detail R Inlet Duct Strut	V17456-ERND-005	021/006	1/4" Fillet Welds		X	
<b>Module Boxes to Exist Ductwork</b>						
Section A	V17456-ERND-310	05	1/4" Fillets Plate to Column and Beam		X	
Section B		05	1/4" Fillets Plate to Column and Beam		X	
Section C		05	1/4" Fillets Plate to Column and Beam		X	
Section D				5/16" Fillet Plate to Plate		X
		05	1/4" Fillets plate to Column and Beam		X	
Detail 001/310	V17456-ERND-311	01	3/16" Fillets Channel to Columns		X	
Detail 002/310		01	3/16" Fillets to Columns		X	
Detail 003/310		01	3/16" Fillets to Column		X	
		01	1/4" Fillets to Column		X	
Detail 004/310		02	1/4" Fillets Beam to Columns		X	
		05	1/4" Fillets Plate to Beam and Column		X	
Detail 005/310		02	1/4" Fillets Beam to Columns		X	
		05	1/4" Fillets Plate to Beam and Column		X	
Detail 006/310		02	PJP Groove Weld Beam Flange to Column Flange	X		
		02	1/4" Fillets Beam to Columns		X	
		05	1/4" Fillets Plate to Beam and Column		X	
Detail 007/310		02	1/4" Fillets Beam to Column		X	
		05	1/4" Fillets Plate to Beam and Column		X	
Detail 008/310	02	1/4" Fillets Beam to Columns		X		
Detail 007/310	02	1/4" Fillets Beam to Column		X		
	05	1/4" Fillets Plate to Beam and Column		X		
Detail 010/310	V17456-ERND-312	03	7/16" Fillets Beam to Column	X		
				5/16" Fillets Beam to Column		X
		04	7/16" Fillets Plate to Column	X		
				1/4" Fillets Plate to Beam		X
Detail 011/310		03	1/4" Fillets Beam to Columns		X	
		04	7/16" Fillets Plate to Column	X		
			1/4" Fillets Plate to Beam		X	
Detail 012/310	03	1/4" Beam and Column		X		
	04	1/4" Fillets Plate to Beam and Column		X		
Detail 013/310	03	1/4" Fillets Beam to Columns		X		

**HRSG Structural Field Bolt Inspection (Bearing Type Connections)**

Location	Vogt Drawing:	Item	Description	Type of Inspection	
				Continuous	Periodic
<b>Inlet Duct</b>					
TYPICAL FIELD JOINT CONNECTION SIDE CONNECTION & BOTTOM (FLAT) CONNECTION	V17456-DWND-006		3/4" Dia A325 Bolts Plate to Plate		X
TYPICAL FIELD JOINT CONNECTION TOP CONNECTION			3/4" Dia A325 Bolts Plate to Beam		X
TYPICAL FIELD JOINT CONNECTION BOTTOM (SLOPE) CONNECTION			3/4" A325 Bolts Plate to Plate		X
			3/4" A325 Bolts Plate to Plate		X
<b>Top/Bottom/Side Casing Area</b>					
Section E	V17456-ERND-004	02, 07 & 08	4 Bolt Plate to Plate		X
Detail F		02, 07 & 08	4 Bolt Plate to Plate		X
Detail G		10, 11 & 12	Bolt Item 010 to Column Stiffener Plates		X
Section H		02, 07 & 08	Bolt Item 011 to Column Stiffener Plates		X
Section J		02, 07 & 08	Bolt Item 012 to Column Stiffener Plates		X
Section K		02, 07 & 08	Bolt Item 013 to Column Stiffener Plates		X
Detail L	V17456-ERND-005	02, 07 & 08	Bolt Item 014 to Beam Stiffener Plates		X
Detail S		10, 11 & 12	Bolt Item 015 to Beam Stiffener Plates		X
Section T		02, 07 & 08	Bolt Item 016 to Column Stiffener Plates		X
Section U		02, 07 & 08	Bolt Item 017 to Column Stiffener Plates		X
Section V		02, 07 & 08	Bolt Item 018 to Column Stiffener Plates		X
Detail W		02, 07 & 08	Bolt Item 019 to Beam Stiffener Plates		X



Statement of Special Inspections

Los Esteros Critical Energy Facility Phase 2  
 Vogt Power Project No.: 17456 - Los Esteros

The HRSG was designed as an "Ordinary Moment Frame" per CBC 2010, IBC 2009, AISC 360-05, AISC 341-05 and AISC 358-05 for Seismic Design Category "D".

All Special Inspections are required per Chapter 17, Sections 1704, 1707 and 1708. No other special inspections are required outside of the scope of Chapter 17.

Location/Description	Vogt Drawing:	Item	Weld	Type of Inspection		
				Continuous	Periodic	
<b>Base Plate Area</b>						
Base Plate Assembly BP080 Column Lines A1 & A2, B1 & B2, C1 & C2	<b>V17456-BPND-001</b>	03	5/16" Fillet Welds		X	
			5/16" Fillets Column to Base Plate		X	
Base Plate Assembly BP081 Column Lines D1 & D2		03	5/16" Fillet Welds		X	
			5/16" Fillets Column to Base Plate		X	
Base Plate Assembly BP081 Column Lines E1 & E2, F1 & F2			5/16" Fillets Column to Base Plate		X	
Base Plate Assembly BP081 Column Lines G1 & G2, H1 & H2			5/16" Fillets Column to Base Plate		X	
Base Plate Assembly BP081 Column Lines N1 & N2, P1 & P2, R1 & R2, S1 & S2, T1 & T2, U1 & U2			5/16" Fillets Column to Base Plate		X	
Anchors at Column Line A		<b>V17456-ERND-020</b>	13	CJP	X	
Anchors at Column "J" & "K"			09	5/16" Partial Penetration Groove	X	
Anchors at Columns: J1 & J2, L1 & L2, M1 & M2			06 07 & 08	5/16" Fillet Welds		X



**CONDITION OF CERTIFICATION  
CIVIL-3**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**

**LG CONSTRUCTORS**  
**LOS ESTEROS CRITICAL ENERGY FACILITY 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	9/24/11	9/24/11
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	10/18/11	11/10/11
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	9/2/11	11/10/11
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	8/3/11	8/8/11
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 pre soaked for time as required per manufacturers instructions	Rework	8/1/11	8/1/11	11/10/11	11/10/11
Hanson	<a href="#">7</a>	CH2M Hill Specification 40231901 Section 1.3.A	Circulating Water	8/2/11	48" and smaller Circulating Water pipe designed and supplied with exterior welds not interior as required by specification	Rework	8/2/11	8/23/11	10/6/11	10/6/11
Overaa	<a href="#">8</a>	CH2M Hill Specification 033000 Rev.2 And ACI 309R	Cooling Tower Wall Placement	8/5/11	Concrete wall placement has honeycomb at base of wall to floor slab at various locations	Rework	8/5/11	8/12/11	9/30/11	9/30/11
Harder Mechanical	<a href="#">9</a>	Harder Welding Procedures	Circulating Water pipe welds #21 and 22	8/10/11	Contract requires that prior to start of welding. Welding Procedures require review and approval LGC and Calpine	Rework	8/10/11	8/10/11	8/10/11	8/10/11
Harder Mechanical	<a href="#">10</a>	Harder Welding Procedures	Circulating Water pipe welds #18, 19, 20 and 74	8/11/11	Contract requires that prior to start of welding. Welding Procedures require review and approval LGC and Calpine	Rework	8/11/11	8/11/11	8/11/11	8/11/11
Overaa/Central Concrete	<a href="#">11</a>	CH2M Hill Specification 033000	STG Foundation	9/10/11	Concrete placed in STG foundation with 7-1/2 slump which exceeds maximum allowed by specification	Accept As Is	9/12/11	9/13/11	10/5/11	11/10/11
Hanson	<a href="#">12</a>	CH2M HILL spec 402319.01 and Hanson Drawing	Circulating Water	10/27/11	Leak at metal to Concrete interface S-36 to Mk80 on North 48" Line	Repair	10/28/11	10/31/11	11/11/11	11/30/11



**CONDITION OF CERTIFICATION  
STRUC-1**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**

STRUC-1:

All submittals are slated to be to the CBO mid-February 2012 with CBO approval anticipated April 2012; this condition should be ready for inclusion in the May/June 2012 CPM Report.

**CONDITION OF CERTIFICATION  
MECH-1**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**

## MECH-1:

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

**CONDITION OF CERTIFICATION  
ELEC-1**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**

#### ELEC-1:

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

**CONDITION OF CERTIFICATION  
TSE-4**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**

TSE-4:

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

**CONDITION OF CERTIFICATION  
AQ-SC3**

**Los Esteros Critical Energy Facility, Phase 2  
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- **AQ-SC3 - Constructive Fugitive Dust Control:** The project owner shall include in the MCR
  - (1) a summary of all actions taken to maintain compliance with this condition
    - Daily watering using a water truck continuously applying water on all areas of activity on the site including excavations, truck routes (paved and unpaved), and active stockpiles.
    - Use of a street sweeper to keep paved areas clean
    - Use of a dust meter which takes regular readings throughout the day with the data downloaded and reviewed each day.
    - Dust meters are visually checked throughout the day to assure compliance.
    - Soil stockpiles have been covered with a soil stabilizer with the open face (working side) covered with plastic and the end of each day. The stockpile is being used as backfill and is decreasing in size.
    - Enforcement of the no visual dust policy.
    - Provide training for compliance to all staff
    - Detailed training is provided to all lead staff.
  - (2) copies of any complaints filed with the air district in relation to project construction
    - None noted for March 2012
  - (3) any other documentation deemed necessary for the CPM and AQCMM to verify compliance with this condition
    - None noted for March 2012

**CONDITION OF CERTIFICATION  
AQ-SC5**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**

CH2MHILL

March 2012

Off-Road Construction Equipment											
Equipment Description (bulldozer, grader, etc.);	vehicle ID #	Vehicle manufacturer	Model	Model Year	Engine horsepower rating	Tier	Fuel type used	Gallons of Fuel used	Hours of Operation this Month	Hours of Operation Total for Project	CARB #
NA											
On-Road Vehicles											
Vehicle Description (flat bed, End Dump, etc.)	vehicle ID #	Vehicle manufacturer	Model	Model Year	Engine horsepower rating	Tier	Fuel type used	Gallons of Fuel used	Total Miles this Month	Total Miles for Project	
NA											
Passenger cars											
Vehicle Description	vehicle ID #	Vehicle manufacturer	Model	Model Year	Engine horsepower rating	Tier	Fuel type used	Gallons of Fuel used	Round trip (In Miles) this Month	Round trip (In Miles) Total Project	
F-150 Gray	8065	Ford	F-150	2011	250	NA	Gas	20	239	2,601.00	NA
F-150 White	8066	Ford	F-150	2011	250	NA	Gas	5	68	3,723.00	NA
Manuel Brothers											
Off-Road Construction Equipment											
Equipment Description (bulldozer, grader, etc.);	vehicle ID #	Vehicle manufacturer	Model	Model Year	Engine horsepower rating	Tier	Fuel type used	Gallons of Fuel used	Hours of Operation this Month	Hours of Operation Total for Project	CARB #
Backhoe		JD	710	2012	4.5L	3	Diesel	80	52	133	NA
Vac Trailer	1F9FS1227X1025137	Fleming	W1000D	1990	50HP/37.29KW	1	Diesel	0	0	0	NA
Trencher	None	Ditch Witch	RT45	2003	42.2HP/31.46KW	2	Diesel	22	32	32	NA
On-Road Vehicles											
Vehicle Description (flat bed, End Dump, etc.)	vehicle ID #	Vehicle manufacturer	Model	Model Year	Engine horsepower rating	Tier	Fuel type used	Gallons of Fuel used	Total Mile this Month	Total Miles for Project	
Utility truck	1FDAF56R28EB76452	Ford	F550	2007	250	NA	D	32	120	400	NA
Passenger cars											
Vehicle Description	vehicle ID #	Vehicle manufacturer	Model	Model Year	Engine horsepower rating	Tier	Fuel type used	Gallons of Fuel used	Round trip (In Miles) this Month	Round trip (In Miles) Total Project	
Pickup	1FTSX20548EB66919	Ford	F250	2007	250	NA	G	155	2035	3,835	NA
Pickup	2GTEK13T96112145	GMC	Sierra	2006	250	NA	G	165	1651	4,151	NA
Pickup	MJ2612	Chevy	1500	2008	195HP/145.41KW	NA	G	57	479	479	NA

<b>Harder</b>											
<b>Off-Road Construction Equipment</b>											
<b>Equipment Description (bulldozer, grader, etc.);</b>	<b>vehicle ID #</b>	<b>Vehicle manufacturer</b>	<b>Model</b>	<b>Model Year</b>	<b>Engine horsepower rating</b>	<b>Tier</b>	<b>Fuel type used</b>	<b>Gallons of Fuel used</b>	<b>Hours of Operation this Month</b>	<b>Hours of Operation Total for Project</b>	<b>CARB #</b>
Forklift		Gradall	544D	2006	190	3	diesel	200	65	175	
manlift	Z60076945	Genie	Z 60/34	2000	48HP/35.79KW	1	diesel	92	91	91	
manlift	230543	JLG	600AJ	2000	48HP/35.79KW	1	diesel	160	160	160	
Cart	Ranger	Polaris	500 EFI	2011	498cc	3	diesel	12	8	8	
Light Plant	658695	Kobota		1998	0.898 lt	NA	diesel	8	20	20	NA
Compressor	384448	Kobota	C185		49	NA	diesel	12	20	20	NA
Light Plant	9	Kobota	night hawk		35	NA	diesel	6	20	20	NA
Light Plant	4	Kobota	night hawk		35	NA	diesel	20	70	70	NA
Gradall	599163	Gradall	4.5	2006	100	3	diesel	166	164	164	
Generator	1014G	Generac	3.0 L		7.8	NA	diesel	10	30	30	NA
Lincoln Welder 300	721975	Lincoln				NA	diesel	33	118	118	NA
Gradall	627069	Gradall	3.0 L			1	diesel	62	88	88	
Welder Big Blue 300	707528	Miller				NA	gas	2	20	20	NA
Welder Big Blue 300	H7-DW	Miller	Trail Blazer			NA	gas	0	0	0	NA
Welder Big Blue 300	H7-DW	Miller	302			NA	gas	0	0	0	NA
Light Plant	658695	Terex/Amida	AL4000			NA	gas	0	0	0	NA
Hoist Lift 360	28501	Hoist	P360	2005	152	2	Diesel	115	105	105	RJ3E48
ManLift	766410	Genie	260-34			1	Diesel	60	70	70	
ManLift	305417	Genie	260-34			1	Diesel	80	80	80	
Compressor	384445	Kubota	C185			NA	Diesel	16	20	20	NA
Compressor	384447	Kubota	C185			NA	Diesel	16	20	20	NA
999 Manitowoc	3406	Manitowoc	999s3	2008	400	3	diesel	370	192	222	
999 Manitowoc	8246	Manitowoc	999s3	2000	400	3	diesel	380	202	202	
RT 130	3626	Link-Bolt	RT 130				diesel	250	192	192	DS5E97
RT 8065	3631	Link-Bolt	RT 8065				diesel	150	203	203	
Manlift	10026318	Genie	125	2011	74	3	diesel	70	95	95	TN3K56
manlift	10024923	JLG	135	2011	75	3	diesel	70	95	95	
Manlift	1192989	Genie	S-85	2010	74	3	diesel	40	76	76	DP9C46
Manlift	1191340	Genie	S-85	2010	73.8	3	diesel	30	60	60	AD4L83
Forklift	591115	Skytrack	8042	2010		3	diesel	150	140	140	BK4K33
Welder 3/7	M210014		D550K	2010	49.5	NA					NA
Welder 3/7	M210205		502K	2010	11	NA					NA
Welder 3/5	M000851		502K	2010							
Welder 3/5	M340012		550K	2010							
Welder 3/7	YE-M040053		550K								
Welder 3/7	YE-M470002		550K								
Welder 3/12	YE-MMB340115		550K								
Welder 3/12	M090005		502K		49.5	NA					NA
Generator 3/12	7350165			2010	87	3					NA
<b>On-Road Vehicles</b>											

Vehicle Description (flat bed, End Dump, etc.)	vehicle ID #	Vehicle manufacturer	Model	Model Year	Engine horsepower rating	Tier	Fuel type used	Gallons of Fuel used	Total Miles this Month	Total Miles for Project	
Stake Bed		Ford	F350	2011	250	NA	Diesel	0	0	340	NA
<b>Passenger cars</b>											
Vehicle Description	vehicle ID #	Vehicle manufacturer	Model	Model Year	Engine horsepower rating	Tier	Fuel type used	Gallons of Fuel used	Round trip (In Miles) this Month	Round trip (In Miles) Total Project	
<b>Duran and Venables</b>											
<b>Off-Road Construction Equipment</b>											
Equipment Description (bulldozer, grader, etc.);	vehicle ID #	Vehicle manufacturer	Model	Model Year	Engine horsepower rating	Tier	Fuel type used	Gallons of Fuel used	Hours of Operation this Month	Hours of Operation Total for Project	CARB #
Bobcat	531616254	Bobcat	T190	2007	2.4L	3	Diesel	34	79	107	HD5C57
Backhoe	TO410JX143882	John Deere	410J	2007	4.5L	3	Diesel	76	131	207	ANSX78
Skip Loader	TO2106J890072	John Deere	210J	2007	4.5L	3	Diesel	90	194	284	JA31363
Compactor	CD433LASNOO14	bomag	CP-433E	1994	4.4L	1	Diesel	60	40	69	JEGN66
Roller	CB224J22402866	Cat	CB-224E	2007	1.49L	3	Diesel	28	75	102	AL7T75
Mini Excavator	A93K13295	Bobcat	E35	2010	2.4L	3	Diesel	40	107	155	VA5D39
Dozer		CAT	D5	2008		3	Diesel	0	0	101	
Excavator		CAT	321D	2008		3	Diesel	0	0	96	
<b>On-Road Vehicles</b>											
Vehicle Description (flat bed, End Dump, etc.)	vehicle ID #	Vehicle manufacturer	Model	Model Year	Engine horsepower rating	Tier	Fuel type used	Gallons of Fuel used	Total Miles this Month	Total Miles for Project	
Water Truck	269122	Peterbilt	330	2005	300	NA	Diesel	60	180	330	NA
Street Sweeper	5DW792	Athey	VA	1994	200	NA	Diesel	32	55	205	NA
<b>Passenger cars</b>											
Vehicle Description	vehicle ID #	Vehicle manufacturer	Model	Model Year	Engine horsepower rating	Tier	Fuel type used	Gallons of Fuel used	Round trip (In Miles) this Month	Round trip (In Miles) Total Project	
NA											
<b>Overaa</b>											
<b>Off-Road Construction Equipment</b>											
Equipment Description (bulldozer, grader, etc.);	vehicle ID #	Vehicle manufacturer	Model	Model Year	Engine horsepower rating	Tier	Fuel type used	Gallons of Fuel used	Hours of Operation this Month	Hours of Operation Total for Project	CARB #
Forklift	G1055A	JLG	860SJ	2007	190		Diesel	104	44	113	160032665
Manlift		Genie	Z45	2006			Diesel	60	20	61	
Scissor lift	R124933034	JLG	GS-266	2005	160	1	Diesel	10	11	11	C4930
Man lift	182700	JLG	400S	2008	160	1	Diesel	10	11	11	AT9668



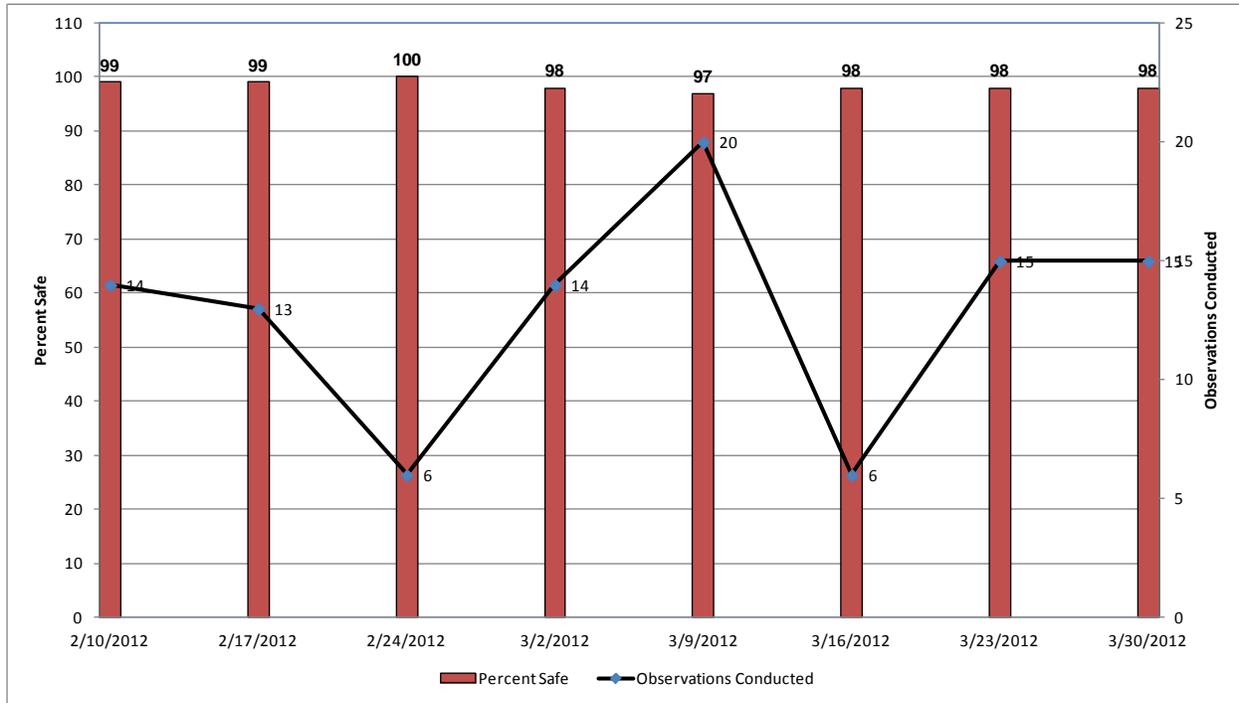
**CONDITION OF CERTIFICATION  
WS-4**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**

**Health, Safety, Security & Environment**

Leading Safety Indicators				
Category	Month	YTD	PTD	Comments
HSSE Orientation	69	191	786	
<b>Safe Behavior Observations</b>	53	152	738	*See SBO Graph & Detail report for trends and category breakdown
SBO % Safe (SBOs ÷ Goal)				
<b>Pre-Task Plans*</b>	383	716	2435	*See PTP Detail report for trends and category breakdown
Tasks Performed w/o PTP	0	0	0	
HSSE Audits	41	120	982	
Audit Items (Past Target Date)	0	0	0	
Hot Work Permits	215	215	215	Started tracking March 2012. The
Excavation Permits	20	20	20	Permitting process involves a
Confined Space Entry Permits	53	53	53	Portion of HSSE activities.
Safety Committee Meetings	4	12	50	
HSE Training Hours	-	-	-	
Emergency Response Drills	0	0	1	
*Includes Calpine contractor PTPs				
Incident Summary				
Date	Incident Type (FA, NM, Spill, etc)	Employer	Description/Corrective Actions	
3/12/12	Property Damage	Harder	Contractor deviated from the lift plan during lift of an inlet duct section involving use of a tailing crane. Corrective Actions: Follow the lift plan with no exceptions. In the event of a change in an engineered lift plan the change must be documented with a new engineered lift plan. All critical lifts will be inspected by LGC and Harder prior to lift and sign-off. A Stand-down occurred immediately after the incident. Harder and Maxim will re-visit the lift plan in total. The crane company, Maxim and Harder will revise the lift procedure to indicate new pad-eye placement required to lift safely with appropriate rigging. Training will be provided on the revised lift plan. Supervisor training will be provided as soon as it can be arranged.	
3/30/12	Spill	Harder	Off road forklift was overfilled with oil resulting in excess oil being released out of the breather/vent. The spill was properly removed and prepared for disposal at an approved disposal facility.	

**Safe Behavior Observations**  
**8 Week Trend - Percent Safe/Observations Conducted**



**SBO Detail**  
**Last 8 Weeks – Category Breakdown**

Week Ending	3/9/2012		3/16/2012		3/23/2012		3/30/2012		Last 8 weeks		Project Totals	
	Safe	At-Risk	Safe	At-Risk								
Aerial Lifts	3	0	4	0	5	0	2	0	25	0	58	0
Barricading	14	1	5	0	7	0	10	0	75	4	443	6
Body Positioning	18	1	6	0	13	0	13	0	96	1	573	4
Confined Space	2	0	0	0	1	0	0	0	13	0	134	0
Electrical	9	0	3	0	5	0	9	0	49	0	332	4
Excavations	6	0	2	0	5	0	9	0	47	0	330	1
Eye	20	0	6	0	14	1	15	0	102	1	582	11
Fall Protection	6	0	3	0	7	0	4	0	35	0	116	1
Foot	20	0	6	0	15	0	15	0	103	0	588	5
Hand	19	1	6	0	14	1	13	2	99	4	574	16
Head	20	0	6	0	15	0	15	0	103	0	588	5
Hearing	9	0	2	0	8	0	6	0	55	0	242	4
Housekeeping	18	1	5	1	14	0	15	0	99	2	573	7
Ladders	6	0	0	0	6	0	5	0	33	0	231	7
Lockout	1	0	0	0	2	0	4	0	16	0	114	0
Manual Lifting	14	0	5	0	11	0	10	0	82	0	538	0
Mobile Equipment	8	0	6	0	10	0	9	0	69	0	426	4
Other	0	0	0	0	0	0	0	1	0	1	9	4
Respiratory	1	0	1	0	0	0	0	0	7	0	30	0
Rigging	3	0	2	0	3	0	3	0	26	0	170	2
Scaffolds	1	0	0	0	4	0	2	0	9	0	57	0
Slip/Trip/Fall	15	1	6	0	13	0	15	0	94	2	569	9
Tools In Use	19	0	6	0	13	0	13	1	97	1	566	7
Work Permit	8	0	4	0	9	0	11	0	69	0	406	2
<b>Totals</b>	<b>240</b>	<b>5</b>	<b>84</b>	<b>1</b>	<b>194</b>	<b>2</b>	<b>198</b>	<b>4</b>	<b>1403</b>	<b>16</b>	<b>8249</b>	<b>99</b>
<b>Percent Safe</b>	<b>97.00</b>		<b>98.00</b>		<b>98.00</b>		<b>98.00</b>		<b>98.00</b>		<b>98.00</b>	

**Pre-Task Planning (PTP)**

**PTP Detail**

Week Ending	3/9/2012		3/16/2012		3/23/2012		3/30/2012		Last 8 weeks		Project Totals	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Appropriately Signed	17	0	6	0	12	1	9	0	90	1	491	2
Hazards for Step Identified	17	0	6	0	12	1	9	0	90	1	492	1
Identified Hazards Adequately Mitigated	17	0	6	0	12	1	9	0	90	1	492	1
New/Changing Tasks Added to PTP	0	0	0	0	0	0	0	0	0	0	0	1
Potential Hazard Checklist Completed	17	0	6	0	12	1	9	0	90	1	492	1
PTP is Followed	16	1	6	0	12	1	9	0	89	2	491	2
PTP is Posted	17	0	6	0	12	1	9	0	90	1	492	1
Required PPE Listed	17	0	6	0	12	1	9	0	90	1	490	3
Steps to Complete Task Identified	17	0	6	0	12	1	9	0	90	1	492	1
Work Area Evaluation Completed	17	0	6	0	12	1	9	0	90	1	492	1
<b>Totals</b>	<b>152</b>	<b>1</b>	<b>54</b>	<b>0</b>	<b>108</b>	<b>9</b>	<b>81</b>	<b>0</b>	<b>809</b>	<b>10</b>	<b>4424</b>	<b>14</b>

Week Ending	3/9/2012	3/16/2012	3/23/2012	3/30/2012	Last 8 weeks	Project Totals
Good PTP	16	6	12	9	89	488
Inadequate PTP	1	0	0	0	1	5
No PTP	0	0	1	0	1	1
PTP Not Audited	3	0	2	6	12	100
<b>Percent Safe - Good PTP</b>	<b>94</b>	<b>100</b>	<b>92</b>	<b>100</b>	<b>97</b>	<b>98</b>

**HSE Lagging Indicators**

Employer	March - 2012										Year to Date - 2012										Project to Date									
	Hours Worked	N	E	F	R	T	R	R	D	D	Hours Worked	N	E	F	R	T	R	R	D	D	Hours Worked	N	E	F	R	T	R	R	D	D
	M	N	V	A	C	R	C	R	C	R	M	V	A	C	R	C	R	C	R	C	M	V	A	C	R	C	R	C	R	C
LGC Staff	3,556	0	0	0	0	0.00	0	0.00	0	0.00	11,758	0	0	0	0	0.00	0	0.00	0	0.00	31,074	1	0	2	0	0.00	0	0.00	0	0.00
Overra	1,560	0	0	0	0	0.00	0	0.00	0	0.00	6,912	0	1	0	0	0.00	0	0.00	0	0.00	32,226	2	4	0	0	0.00	0	0.00	0	0.00
Harder	11,904	0	1	0	0	0.00	0	0.00	0	0.00	20,088	1	2	0	0	0.00	0	0.00	0	0.00	38,971	6	2	2	0	0.00	0	0.00	0	0.00
Kier-Wright		0	0	0	0	0.00	0	0.00	0	0.00	38	0	0	0	0	0.00	0	0.00	0	0.00	150	0	0	0	0	0.00	0	0.00	0	0.00
TRC		0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0.00	0	0.00	0	0.00	314	0	0	0	0	0.00	0	0.00	0	0.00
TLG	758	0	0	0	0	0.00	0	0.00	0	0.00	2,152	0	0	0	0	0.00	0	0.00	0	0.00	4,086	0	0	0	0	0.00	0	0.00	0	0.00
Hanson Pressure Pipe		0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0.00	0	0.00	0	0.00	100	0	0	0	0	0.00	0	0.00	0	0.00
Contra Costa Electric		0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0.00	0	0.00	0	0.00	100	0	0	0	0	0.00	0	0.00	0	0.00
MJ Electric	2,144	0	0	0	0	0.00	0	0.00	0	0.00	5,616	0	0	0	0	0.00	0	0.00	0	0.00	7,113	0	1	0	0	0.00	0	0.00	0	0.00
Telecom Plus		0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0.00	0	0.00	0	0.00	1,171	0	0	0	0	0.00	0	0.00	0	0.00
Bay Area Construction		0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0.00	0	0.00	0	0.00	965	0	0	0	0	0.00	0	0.00	0	0.00
CMT	251	0	0	0	0	0.00	0	0.00	0	0.00	646	0	0	0	0	0.00	0	0.00	0	0.00	1,629	0	0	0	0	0.00	0	0.00	0	0.00
DSM		0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0.00	0	0.00	0	0.00	387	0	0	0	0	0.00	0	0.00	0	0.00
McClure Electric		0	0	0	0	0.00	0	0.00	0	0.00	28	0	0	0	0	0.00	0	0.00	0	0.00	303	0	0	0	0	0.00	0	0.00	0	0.00
N. American Demolition		0	0	0	0	0.00	0	0.00	0	0.00	5,908	1	0	0	0	0.00	0	0.00	0	0.00	5,908	1	0	0	0	0.00	0	0.00	0	0.00
		0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0.00	0	0.00	0	0.00	
		0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0.00	0	0.00	0	0.00	
		0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0.00	0	0.00	0	0.00	
		0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0.00	0	0.00	0	0.00	
<b>Project Totals (LGC)</b>	<b>20,173</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>53,146</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>124,497</b>	<b>10</b>	<b>7</b>	<b>4</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
CCMCI	908	0	0	0	0	0.00	0	0.00	0	0.00	2,828	0	0	0	0	0.00	0	0.00	0	0.00	8,175	1	0	0	0	0.00	0	0.00	0	0.00
Water Cooling Depot	3,786	0	0	0	0	0.00	0	0.00	0	0.00	9,687	0	0	0	0	0.00	0	0.00	0	0.00	14,884	2	0	0	0	0.00	0	0.00	0	0.00
<b>Project Totals (Client)</b>	<b>4,694</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>12,515</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>23,059</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>
		0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0	0.00	0	0.00	0	0.00	
<b>Project Totals (Combined)</b>	<b>24,867</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>65,661</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>147,556</b>	<b>13</b>	<b>7</b>	<b>4</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>

# ***EAST BAY SAFETY, Inc.***

## Monthly Safety Monitor Report

**Date:** 3/2/2012

**Project:** LECEF Phase 2

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

**Report:** Monthly Safety Monitor Report, February 2012

**Report by:** Bill Bellm

### **Monthly Safety Stats:**

- LG Constructors Safety/WEAP Orientations: 58
- Safe Behavior Observations:47
- HSSE Audits: 36
- Pre-Task Plans (PTP) 189
- Lost Time Recordable 0
- Recordable Injuries: (REC) 0
- First Aid Cases: 0
- Near Miss Events: 1
- Weekly Safety Monitor Visits and Reports: 4
- All Hands Safety Meeting Each Monday Morning @ 7 a.m.

Above information was provided by Gary Brown, LG Constructors Safety Manager

*Bill Bellm*

3/2/2012

Signature

Date

***EAST BAY SAFETY, Inc.***

bill@eastbaysafety.com

Mailing Address: P.O. Box 600, San Lorenzo, Ca. 94580 Phone 510- 209-3017

# EAST BAY SAFETY, Inc.

## Safety Observation Report

**Date:** 3/12/2012

**Project:** LECEF Phase 2

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

**Role:** Safety Monitor

**Purpose of visit:** Independent on-site safety inspection

**Weather:** Sunny

**Site Safety Personnel:** Gary Brown, Lee Alexander

**Contractors observed on site:** LGC, Overra, Kirk, Manual Brothers, Harder, MJ Electric, MCR.

### Overall Observations:

Cooling Tower Depot Erection in progress

Rebar placement in slab at pipe rack area at north side of STG in progress

Inlet Duct lift in progress. (Picture 1)

Concrete pour at the equipment maintenance pad on the south side of the STG in progress. (Picture 2)

Witnessed employees jumping across the trenches next to the equipment maintenance pad on the south side of the STG. (Picture 3)

Barricades were down at the following locations: South/East side of the STG and east side of the pipe rack area. (Pictures 4 & 5)

Pipe fabrication area scaffold erection in progress. Fall Protection- Employees need to be tied off at a higher level. Gary Brown discussed policy and fall distances with employees.

### Positive Observations:

Attended Safety Meeting. Topics: Zero Tolerance Policy, (posted at eye wash station), Speed Limit, Red Barricade Tape Policy, Daylight Savings Hazards Stats., Gate 3 in use, PTP Policy.

Observed Harder performing JLG inspection.

Red barricade tape with restricted admittance tags in use around cranes.

Water truck/dust control in use.

MSDS booklet is maintained and current. Location is in the safety trailer.

Confined Space Entry Permit in use at Blow Down Sumps, east and west.



1



2



3



4



5

### Safety Procedures & Practices:

Walked site with Gary Brown, discussed the following:

Crane Critical Lift Policy, lay down area, PPE, site conditions and above overall observations.

*Bill Bellm*

3/12/2012

Signature

Date

**EAST BAY SAFETY, Inc.**

bill@eastbaysafety.com

Mailing Address: P.O. Box 600, San Lorenzo, Ca. 94580 Phone 510- 209-3017

# ***EAST BAY SAFETY, Inc.***

## Safety Observation Report

**Date:** 3/19/2012

**Project:** LECEF Phase 2

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

**Role:** Safety Monitor

**Purpose of visit:** Independent on-site safety inspection

**Weather:** Cloudy

**Site Safety Personnel:** Gary Brown, Lee Alexander

**Contractors observed on site:** LGC, Overra, Kirk, Manual Brothers, Harder, MJ Electric, MCR.

### **Overall Observations:**

Cooling Tower Depot: Lift in progress. (Picture 1)

Inlet Duct at Unit 4: Lift in progress. (Picture 2)

Caution tape down at the south side of the STG. (Picture 3)

Demolition at shop warehouse slab in progress. (Picture 4)

Witnessed Crane Service Co. operator rigging a cooling tower unit without proper PPE (gloves)  
Notified Kirk Foreman and Gary Brown.

### **Positive Observations:**

Attended Safety Meeting. Topics: Value of Safety, emergency response, crane issue of 3/12/2012, animal safety, sunflower seeds and food debris, badge system, stretch & flex.



1



2



3



4

### **Safety Procedures & Practices:**

Reviewed the following:

Harder/Maxim Crane Incident/Root Cause Analysis & Lessons Learned, Crane Critical Lift Policy with Rigging Plan Worksheet & Critical Lift Permit Documents.

Walked site with Gary Brown, discussed the following:

Site conditions and above safety procedures & practices and overall observations.

*Bill Bellin*

3/19/2012

Signature

Date

***EAST BAY SAFETY, Inc.***

bill@eastbaysafety.com

Mailing Address: P.O. Box 600, San Lorenzo, Ca. 94580 Phone 510- 209-3017

# ***EAST BAY SAFETY, Inc.***

## Safety Observation Report

**Date:** 3/26/2012

**Project:** LECEF Phase 2

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

**Role:** Safety Monitor

**Purpose of visit:** Independent on-site safety inspection

**Weather:** Cloudy

**Site Safety Personnel:** Gary Brown, Lee Alexander

**Contractors observed on site:** LGC, Overra, Kirk, Manual Brothers, Harder, MJ Electric, MCR.

### **Overall Observations:**

Cooling Tower Depot: Lift in progress. (Picture 1)

Box 2, lift in progress at Unit 3. (Pictures 2, 3)

### **Positive Observations:**

Attended Safety Meeting. Topics: Value of Safety, recent industry incident, sharp objects, storage restrictions, smoking policy, glove policy, bees & wasps, spot awards.

Current Safety Committee Meeting Notes were posted at eye wash station near guard shack.

Red barricade tape and restricted admittance tags in use at critical lift area.

Inspection record tags in use on rolling scaffolds.

Gary Brown was involved with Maxim Critical Lift Plan, Lift PTP and Pre-Lift meeting. (Picture 4)



1



2



3



4

### **Safety Procedures & Practices:**

Reviewed the following with Gary Brown:

Harder/Maxim Crane Critical Lift Policy & Lift PTP.

Walked site with Gary Brown, discussed the following:

Site conditions and above overall observations.

*Bill Bellin*

3/26/2012

Signature

Date

***EAST BAY SAFETY, Inc.***

bill@eastbaysafety.com

Mailing Address: P.O. Box 600, San Lorenzo, Ca. 94580 Phone 510- 209-3017

**CONDITION OF CERTIFICATION  
BIO-2**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**

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

**MONTHLY COMPLIANCE REPORT #10**

**March 2012**

**Prepared by:**

**CH2M HILL**

**2485 Natomas Park Drive, Suite 600**

**Sacramento, California 95833**

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

**March 2012**

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**APPENDICES**

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

# 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 August 2002, and the LECEF was constructed and became operational in March 2003. The purpose of the Phase 2 CEC Application for Certification (AFC) was to meet the requirement of PRC §25552 by recertifying (relicensing) Phase 1 and certifying Phase 2 conversion to combined-cycle, which will allow the project to achieve much higher efficiency in generating power.

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

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

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

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

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

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

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

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

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

The project was designed to avoid significant adverse impacts to sensitive biological resources to the furthest extent feasible. Protection measures were developed during informal and formal consultation with local, state, and federal agencies to minimize unavoidable project impacts. The Designated Biologist (DB) and/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 March 2012 (March 1 to March 31).

# MONITORED MITIGATION MEASURES AND PERMIT CONDITIONS

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

## Conditions of Certification (COC)

All COC's were in compliance for the month of March. The following COC's, BIO-2, 4, 8, and 11, were applicable compliance measures for the month of March 2012 and require specific language to be included in each monthly compliance report. Therefore each is addressed separately below.

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

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

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

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

The DB and/or BM made biweekly site visits to ensure that BIO-11 remained in compliance during the month of March. The DB and BM continued searches for owl use at the two small mammal burrows located immediately adjacent to the project's temporary parking area as described in the December 2011 report. During two extended surveys on December 28<sup>th</sup> and December 30<sup>th</sup>, no owl sign or activity was observed at the burrows; therefore the burrows were determined to be unoccupied by burrowing owls. As a preventative measure against future use, in January 2012 the BM installed one-way doors at the two burrow sites. No sign or activity of burrowing owls was observed in March at either of the burrows.

# SUMMARY OF SITE ACTIVITIES

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This section provides a summary of March 2012 project activities and associated biological monitoring. A cumulative wildlife species list is included in Appendix A. The BM Danielle Tannourji completed logs summarizing activities, personal interactions, and observations made during each site visit.

## Site Construction

Construction in March included demolition of the existing HRSGs in preparation for installation of new HRSGs, underground piping and conduit installation, grading, trenching, backfilling of excavations and trenches, and light installation at the temporary parking lot. Monitoring visits by the BM were conducted biweekly to document permit compliance. The DB and BM were on-call all other times during the month.

## Worker Environmental Awareness Training Program

The Worker Environmental Awareness Program (WEAP) was developed exclusively for the LECEF Phase 2 project. Program materials include a worker handbook, training video, posted speed limit signs and sensitive species awareness supporting posters. As required by COC BIO-4, all new employees must attend the WEAP training. A total of 80 personnel received WEAP training in March. The Calpine Safety Supervisor administered the WEAP training to new employees. Signed affidavits are kept on file by the Calpine Safety Supervisor in the site trailer.

## General Daily Notes and Observations

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

On March 9<sup>th</sup>, BM Danielle Tannourji was on site to monitor construction activities and survey areas along the boundaries of the temporary parking lot for proposed trenching activities associated with temporary lighting installation. No nesting birds or active burrows were found near the temporary parking lot; however there was increased songbird activity in the vicinity. Ongoing site activities included demolition of the existing HRSGs, underground piping installation, and construction of other above ground infrastructure near the HRSGs. In addition, concrete pours and backfilling were ongoing. The road sweeper and water truck were used periodically throughout the site and the parking lot area, respectively. During this monitoring effort the LECEF project was in compliance with all biological resources COCs.

On March 12<sup>th</sup>, BM Danielle Tannourji was on site to monitor construction activities and trenching along the boundaries of the temporary parking lot. Ongoing site activities included continued installation of the cooling towers, underground piping and conduit installation, and construction of various above ground infrastructure. The road sweeper and water truck were used periodically throughout the site and the parking lot area, respectively. Trenching activities

for the temporary lighting went smoothly without any disturbances noted to the landscaping area north of the parking lot. The biological monitor observed no active bird nests. During this monitoring effort the LECEF project was in compliance with all biological resources COCs.

On March 22<sup>nd</sup>, BM Danielle Tannourji was on site to monitor construction activities. Ongoing site activities included continued installation of the cooling towers, underground piping and conduit installation, and construction of various above ground infrastructure. In addition, concrete pours and backfilling were ongoing. The road sweeper and water truck were used periodically throughout the site and the parking lot area, respectively. During this monitoring effort, a pair of common ravens (*Corvus corax*) was found building a nest in Unit #1 of the existing HRSGs immediately adjacent to work site activities. The BM monitored the situation while a construction crew member was man-lifted to the nest to take photographs of the existing condition. The BM analyzed the photographs and it was clearly obvious that the pair had just began building the nest as there were a few scattered sticks and no eggs (see photographs below). To avoid any further nesting issues, the BM asked the crew to remove the inactive nest. During this monitoring effort the LECEF project was in compliance with all biological resources COCs.

On March 26<sup>th</sup>, BM Danielle Tannourji was on site to monitor construction activities including the temporary lighting installation at the temporary parking lot. Other activities within the LECEF site included continued installation of the cooling towers, underground piping and conduit installation, and construction of various above ground infrastructure. The road sweeper and water truck were used periodically throughout the site and the parking lot area, respectively.

The BM monitored two active nest sites approximately 65 feet from the northern and eastern boundaries of the existing parking lot during temporary lighting installation. The BM noted a pair of Anna's hummingbird (*Calypte anna*) nesting in an oak tree and a house finch (*Carpodacus mexicanus*) pair nesting in a coyote brush shrub. During the installation, the BM did not observe any distressed behavior from the nesting pairs. An auger truck was used to conduct the entire installation and work was completed from the parking lot with a crew of 5 workers. A 50-foot construction free zone was in place during the entire installation and no disturbances to the nesting pairs were observed. In addition, a dead feral cat was found near the northwestern boundary of the LECEF site. The construction contractor reported the finding to Calpine's Environmental Manager, Rod Jones, and the BM. The feral cat had been observed by the crew member for the past week in the vicinity and numerous times in the pump station. It is believed that the cat was diseased and died from an unknown illness, not from construction-related activities as the existing pump station is not part of the action area. The BM interviewed the crew member that found the cat and completed a wildlife form to document the incident (Appendix C). Calpine personnel disposed of the carcass. Despite this incident, the LECEF project was in compliance with all biological resources COCs during this monitoring effort.

On March 27<sup>th</sup>, the Environmental Manager Rod Jones noticed a pair of common ravens building a nest in Unit #3 of the existing HRSGs. The BM Danielle Tannourji was called and asked for permission to photograph the nest location. The BM approved the request and the construction crew photographed the nest and sent the documentation back to the BM via email (see photographs below). The BM confirmed that there were no eggs within the nest and suggested that the nest be removed. The crew removed the nest from Unit #3 in the afternoon.

During this monitoring effort the LECEF project was in compliance with all biological resources COCs.

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

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

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

## **Appendix B**

# **Representative Photographs**

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**#1.** A view of project site conditions at the southern portion of the LECEF site where the new cooling towers are being built. Photo was taken March 9, 2012.



**#2.** A view facing north from the southern boundary at the existing LECEF site where construction activities continue. Photo was taken March 9, 2012.



**#3.** A view north of the common raven nest in Unit #1 of the existing HRSGs just before crews removed it. Photo was taken from a man-lift on March 22, 2012.



**#4.** A view facing east of the lighting installation along the northern boundary of the temporary parking lot. Photo was taken on March 26, 2012.



**#5.** A view of the common raven nest in Unit #3 of the existing HRSGs just before crews removed it. Photo was taken from a man-lift on March 27, 2012.

**Appendix C**  
**Wildlife Observation Form**

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**CONDITION OF CERTIFICATION  
BIO-4**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**

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

- 80
- Total to date = 590 (as of 3/30/12)

**CONDITION OF CERTIFICATION  
CUL-2**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**



Activity ID	Activity Name	OD	RD	Physical % Complete	Start	Finish	TF	2012												2013				
								M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	
	<b>PROCUREMENT</b>	556.9d	140.0d		03-Mar-11 A	12-Aug-12	39.9d	[Gantt bars for 2012]																
	REINFORCING STEEL	285.0d	40.0d		15-Feb-11 A	18-May-12	278.0d	[Gantt bars for 2012]																
	EMBEDDED STEEL ITEMS	121.0d	0.0d		15-Feb-11 A	29-Sep-11 A		[Gantt bars for 2012]																
	BALANCE OF PLANT STRUCTURAL STEEL	176.0d	50.0d		26-Sep-11 A	04-Jun-12	268.0d	[Gantt bars for 2012]																
	PRECAST CONCRETE SUMPS	65.0d	0.0d		31-May-11 A	02-Sep-11 A		[Gantt bars for 2012]																
	PACKAGED STEAM BOILERS	214.0d	27.0d		02-Aug-11 A	01-May-12	291.0d	[Gantt bars for 2012]																
	CHEMICAL FEED SKIDS	213.0d	27.0d		16-Aug-11 A	01-May-12	75.0d	[Gantt bars for 2012]																
	SHOP FABRICATED PRESSURE VESSELS	195.0d	27.0d		15-Aug-11 A	01-May-12	94.0d	[Gantt bars for 2012]																
	SHOP FABRICATED VESSELS - ATMOSPHERIC	165.0d	27.0d		01-Nov-11 A	01-May-12	123.0d	[Gantt bars for 2012]																
	AQUEOUS AMMONIA STORAGE	138.0d	27.0d		04-Nov-11 A	01-May-12	149.0d	[Gantt bars for 2012]																
	DUCTBURNER FILTER SEPRATOR	173.0d	16.0d		23-Jun-11 A	16-Apr-12	109.0d	[Gantt bars for 2012]																
	OILY WATER SEPARATOR	100.0d	0.0d		02-May-11 A	21-Oct-11 A		[Gantt bars for 2012]																
	BOILER FEEDWATER PUMPS	316.0d	73.0d		02-May-11 A	06-Jul-12	54.0d	[Gantt bars for 2012]																
	CLOSED COOLING WATER HEAT EXCHANGERS	201.0d	16.0d		16-Jun-11 A	16-Apr-12	127.0d	[Gantt bars for 2012]																
	CONDENSATE PUMPS	249.0d	58.0d		24-Jun-11 A	14-Jun-12	52.1d	[Gantt bars for 2012]																
	VERTICAL SUMP PUMPS	221.0d	27.0d		30-Jun-11 A	01-May-12	291.0d	[Gantt bars for 2012]																
	FUEL GAS COMPRESSORS	210.0d	27.0d		15-Jul-11 A	01-May-12	123.0d	[Gantt bars for 2012]																
	CW PUMPS	317.0d	49.0d		15-Mar-11 A	01-Jun-12	27.0d	[Gantt bars for 2012]																
	4160V SWITCHGEAR AND MOTOR CONTROL CENTERS (MCC'S)	192.0d	0.0d		01-Sep-11 A	20-Jan-12 A		[Gantt bars for 2012]																
	480V MOTOR CONTROL CENTERS (MCC'S)	192.0d	0.0d		01-Sep-11 A	20-Jan-12 A		[Gantt bars for 2012]																
	480V SWITCHGEAR	176.0d	45.0d		11-Oct-11 A	25-May-12	31.0d	[Gantt bars for 2012]																
	15Kv BUS DUCT	187.0d	50.0d		09-Sep-11 A	04-Jun-12	268.0d	[Gantt bars for 2012]																
	125V DC BATTERY CHARGERS AND BATTERIES	229.0d	99.0d		20-Sep-11 A	13-Aug-12	6.0d	[Gantt bars for 2012]																
	PROTECTIVE RELAY PANELS	83.0d	83.0d		20-Mar-12 A	22-Jul-12	29.0d	[Gantt bars for 2012]																
	POWER DISTRIBUTION CENTERS (PDC'S)	187.0d	50.0d		09-Sep-11 A	04-Jun-12	4.0d	[Gantt bars for 2012]																
	MEDIUM VOLTAGE WIRE AND CABLE	98.0d	98.0d		14-Mar-12 A	10-Aug-12	0.0d	[Gantt bars for 2012]																
	CABLE TRAY	56.0d	56.0d		20-Mar-12 A	12-Jun-12	-4.0d	[Gantt bars for 2012]																
	LIGHTNING PROTECTION SYSTEMS	143.0d	0.0d		01-Jul-11 A	01-Jul-11 A		[Gantt bars for 2012]																
	CATHODIC PROTECTION SYSTEMS	160.0d	46.0d		13-Oct-11 A	29-May-12	272.0d	[Gantt bars for 2012]																
	HIGH VOLTAGE CIRCUIT BREAKERS	205.0d	69.0d		29-Aug-11 A	29-Jun-12	14.0d	[Gantt bars for 2012]																
	HIGH VOLTAGE MINOR MATERIALS	230.0d	93.0d		01-Sep-11 A	03-Aug-12	4.0d	[Gantt bars for 2012]																
	HIGH VOLTAGE CABLE	221.0d	95.0d		26-Sep-11 A	11-Aug-12	17.0d	[Gantt bars for 2012]																
	DISTRIBUTED CONTROL SYSTEMS (DCS'S)	192.0d	50.0d		01-Sep-11 A	04-Jun-12	14.0d	[Gantt bars for 2012]																
	SAMPLE AND ANALYSIS PANELS	207.0d	71.0d		01-Sep-11 A	03-Jul-12	106.0d	[Gantt bars for 2012]																
	CONTINUOUS EMISSIONS MONITORING SYSTEMS (CEMS)	205.0d	109.0d		01-Nov-11 A	27-Aug-12	82.0d	[Gantt bars for 2012]																
	FIELD MOUNTED INSTRUMENTS	126.1d	71.0d		21-Nov-11 A	03-Jul-12	52.0d	[Gantt bars for 2012]																
	IN-LINE INSTRUMENTATION	128.0d	50.0d		16-Nov-11 A	04-Jun-12	73.0d	[Gantt bars for 2012]																
	SAFETY AND PRESSURE RELIEF VALVES	191.5d	100.5d		14-Nov-11 A	15-Aug-12	21.5d	[Gantt bars for 2012]																
	PROCESS CONTROL VALVES AND REGULATORS	171.0d	98.0d		30-Nov-11 A	12-Aug-12	24.0d	[Gantt bars for 2012]																
	CONTROL VALVES - BUTTERFLY	152.0d	31.0d		03-Oct-11 A	07-May-12	92.0d	[Gantt bars for 2012]																
	ON-OFF VALVES - BALL VALVES (SEVERE SERVICE)	200.0d	86.0d		11-Oct-11 A	25-Jul-12	37.0d	[Gantt bars for 2012]																

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



























Activity ID	Activity Name	OD	RD	Physical % Complete	Start	Finish	TF	2012												2013				
								M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	
<b>PIPING</b>																								
<b>TEMPORARY WATER AND SEWER</b>																								
	GENERAL SITE WORK	8.0d	0.0d		13-Jul-11 A	04-Aug-11 A																		
<b>PRE-ENGINEERED METAL BUILDINGS &amp; INTERIOR FINISHES</b>																								
	PROCUREMENT	11.0d	1.0d		29-Feb-12 A	26-Mar-12	199.0d																	
<b>EQUIPMENT ERECTION (STG, HRSG, STACK, and BOP)</b>																								
	BALANCE OF PLANT MISC.	20.0d	20.0d		13-Aug-12	10-Sep-12	27.0d																	
<b>EQUIPMENT AND PIPE INSULATION / HEAT TRACE</b>																								
	HRSG#1	40.0d	40.0d		28-Nov-12	25-Jan-13	28.0d																	
<b>UNDERGROUND PIPING SYSTEMS</b>																								
	CONSTRUCTION MANAGEMENT	5.0d	0.0d		31-Oct-11 A	04-Nov-11 A																		
	GENERAL SITE WORK	30.0d	30.0d		30-Apr-12	11-Jun-12	17.0d																	
	STEAM TURBINE AREA	54.0d	16.0d		02-Nov-11 A	16-Apr-12	30.0d																	
	PIPE RACK	36.0d	26.0d		09-Jan-12 A	30-Apr-12	46.0d																	
	CIRC WATER / COOLING TWR AREA	20.0d	20.0d		30-Apr-12	25-May-12	27.0d																	
	NEW WAREHOUSE / OFFICE BLDG	104.0d	5.0d		07-Nov-11 A	11-May-12	37.0d																	
	BALANCE OF PLANT MISC.	54.0d	145.0d		06-Jun-11 A	16-Oct-12	26.0d																	
<b>UNDERGROUND CIRCULATION WATER PIPE SYSTEM</b>																								
	UG CW PIPE	117.0d	84.0d		23-May-11 A	23-Jul-12	20.0d																	
	PROCUREMENT	74.0d	0.0d		24-May-11 A	22-Sep-11 A																		
<b>ABOVE GROUND BALANCE OF PLANT PIPING</b>																								
	CONSTRUCTION MANAGEMENT	110.0d	110.0d		09-Apr-12	12-Sep-12	4.0d																	
	HRSG#3	148.0d	148.0d		21-Jun-12	22-Jan-13	33.0d																	
	HRSG#2	140.0d	140.0d		21-Jun-12	10-Jan-13	41.0d																	
	HRSG#4	140.0d	140.0d		21-Jun-12	10-Jan-13	41.0d																	
	HRSG#1	130.0d	130.0d		21-Jun-12	26-Dec-12	51.0d																	
	STEAM TURBINE AREA	174.9d	174.9d		14-May-12	22-Jan-13	0.1d																	
	PIPE RACK	115.0d	115.0d		21-Jun-12	04-Dec-12	26.0d																	
	FUEL GAS AREA	71.0d	71.0d		13-Aug-12	21-Nov-12	71.0d																	
	WTR TREATMENT AREA	71.0d	71.0d		21-Jun-12	28-Sep-12	30.0d																	
	AQUA AMMONIA AREA	27.0d	27.0d		05-Nov-12	14-Dec-12	58.0d																	
	CIRC WATER / COOLING TWR AREA	99.0d	99.0d		03-Jul-12	20-Nov-12	27.0d																	
	RW TANK/PUMP OPTION	103.0d	103.0d		25-Jul-12	19-Dec-12	20.0d																	
	BALANCE OF PLANT MISC.	50.0d	50.0d		17-Sep-12	28-Nov-12	21.0d																	
	No 417531-13-AREA	147.0d	147.0d		21-Jun-12	22-Jan-13	32.0d																	
<b>ELECTRICAL / INSTRUMENTATION</b>																								
<b>TEMPORARY ELECTRICAL</b>																								
	GENERAL SITE WORK	5.0d	0.0d		11-Jul-11 A	04-Aug-11 A																		
<b>EQUIPMENT ERECTION (STG, HRSG, STACK, and BOP)</b>																								
	CONSTRUCTION MANAGEMENT	19.0d	0.0d		09-Jan-12 A	30-Jan-12 A																		
	STEAM TURBINE MV/LV ELECT	1.0d	1.0d		06-Apr-12	06-Apr-12	133.0d																	

■ 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 #10  
March 2012**



























79634

Signature  
Signature  
**LECEF TRAINING CERTIFICATION**

Per the California Energy Commission Certification of Conditions, each employee must receive the following training:

- |   |            |
|---|------------|
| 1. Aware of the requirements of the AQCMP   | <u>5.0</u> |
| 2. Worker Environmental Awareness Training  | <u>5.0</u> |
| 3. Badge Protection   | <u>5.0</u> |
| 4. Emergency Response Plan  | <u>5.0</u> |
| 5. Evacuation and Relocation Procedures   | <u>5.0</u> |
| 6. Security Awareness Training  | <u>5.0</u> |
| 7. Operations Security Briefing   | <u>5.0</u> |
| 8. Cultural Resource Discovery  | <u>5.0</u> |
| 9. Environmental, Health and Safety Regulations, Policies, and Procedures                             | <u>5.0</u> |
| 10. Hazardous Noise Training  | <u>5.0</u> |
| 11. DESCP/SWPPP Implementation, BMP Inspection and Maintenance, and Record Keeping                    | <u>5.0</u> |
| 12. Waste Management Procedures   | <u>5.0</u> |
| 13. Signed the Safety Plan  | <u>5.0</u> |
| 14. Completed H&S Orientation   | <u>5.0</u> |
| 15. Emergency Spill Control   | <u>5.0</u> |
| 16. MSDS Training   | <u>5.0</u> |
| 17. Hazardous Materials Communication   | <u>5.0</u> |
| 18. Review the FSIs   | <u>5.0</u> |
| 19. General Site Safety   | <u>5.0</u> |
| 20. Employee Responsibilities   | <u>5.0</u> |
| 21. Emergency Procedures and Evacuation Plan  | <u>5.0</u> |
| 22. Injury and Incident Reporting Procedures  | <u>5.0</u> |
| 23. Reporting Procedures for Hazardous Conditions and/or Hazardous Activities                         | <u>5.0</u> |
| 24. Proper Use, Care, Maintenance, Limitations, and Instructions on how to wear and adjust PPE        | <u>5.0</u> |
| 25. Communicate Emergency Procedures for Personnel Injury, Exposures, Fires, Explosions, and Releases | <u>5.0</u> |

I acknowledge that I have received the CEC required training:

Sequoia Ortega Jr.  
Employee Signature

Date: 3.5.12

O. Brown  
LECEF Construction Manager

Date: 3/5/12

### LECEF TRAINING CERTIFICATION

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I acknowledge that I have received the CEC required training:

[Signature]  
Employee Signature

Date: 3/5/12

[Signature]  
LECEF Construction Manager

Date: 3/5/12

79636

### LECEF TRAINING CERTIFICATION

Per the California Energy Commission Certification of Conditions, each employee must receive the following training:

- 1. Aware of the requirements of the AQCMP MR
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I acknowledge that I have received the CEC required training:

[Signature]  
Employee Signature

Date: 3-5-12

[Signature]  
LECEF Construction Manager

Date: 3/5/12

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I acknowledge that I have received the CEC required training:

Brian Cottrell Melina Crane  
Employee Signature

Date: 3/5/12

B. Brown  
LECEF Construction Manager

Date: 3/5/12

### LECEF TRAINING CERTIFICATION

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I acknowledge that I have received the CEC required training:

Dan Sih Maxim Crane  
Employee Signature

Date: 3-5-12

[Signature]  
LECEF Construction Manager

Date: 3/5/12

### LECEF TRAINING CERTIFICATION

Per the California Energy Commission Certification of Conditions, each employee must receive the following training:

- 1. Aware of the requirements of the AQCMP ✓
- 2. Worker Environmental Awareness Training ✓
- 3. Badge Protection \_\_\_\_\_
- 4. Emergency Response Plan ✓
- 5. Evacuation and Relocation Procedures ✓
- 6. Security Awareness Training ✓
- 7. Operations Security Briefing ✓
- 8. Cultural Resource Discovery ✓
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- 10. Hazardous Noise Training ✓
- 11. DESCP/SWPPP Implementation, BMP Inspection and Maintenance, and Record Keeping ✓
- 12. Waste Management Procedures ✓
- 13. Signed the Safety Plan ✓
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- 15. Emergency Spill Control ✓
- 16. MSDS Training ✓
- 17. Hazardous Materials Communication \_\_\_\_\_
- 18. Review the FSIs \_\_\_\_\_
- 19. General Site Safety ✓
- 20. Employee Responsibilities ✓
- 21. Emergency Procedures and Evacuation Plan ✓
- 22. Injury and Incident Reporting Procedures ✓
- 23. Reporting Procedures for Hazardous Conditions and/or Hazardous Activities \_\_\_\_\_
- 24. Proper Use, Care, Maintenance, Limitations, and Instructions on how to wear and adjust PPE ✓
- 25. Communicate Emergency Procedures for Personnel Injury, Exposures, Fires, Explosions, and Releases ✓

I acknowledge that I have received the CEC required training:

Chris Stinson  
Employee Signature

Date: 3-5-12

Chris Stinson  
LECEF Construction Manager

Date: 3/5/12

79640

### LECEF TRAINING CERTIFICATION

Per the California Energy Commission Certification of Conditions, each employee must receive the following training:

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- 4. Emergency Response Plan
- 5. Evacuation and Relocation Procedures
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- 25. Communicate Emergency Procedures for Personnel Injury, Exposures, Fires, Explosions, and Releases

I acknowledge that I have received the CEC required training:

PN [Signature]  
Employee Signature

Date: 3/5/12

[Signature]

LECEF Construction Manager

Date: 3/5/12

79641

# LECEF TRAINING CERTIFICATION

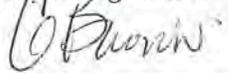
Per the California Energy Commission Certification of Conditions, each employee must receive the following training:

- |   |   |
|---|---|
| 1. Aware of the requirements of the AQCMP   | X |
| 2. Worker Environmental Awareness Training  | X |
| 3. Badge Protection   | X |
| 4. Emergency Response Plan  | X |
| 5. Evacuation and Relocation Procedures   | X |
| 6. Security Awareness Training  | X |
| 7. Operations Security Briefing   | X |
| 8. Cultural Resource Discovery  | X |
| 9. Environmental, Health and Safety Regulations, Policies, and Procedures                             | X |
| 10. Hazardous Noise Training  | X |
| 11. DESCP/SWPPP Implementation, BMP Inspection and Maintenance, and Record Keeping                    | X |
| 12. Waste Management Procedures   | X |
| 13. Signed the Safety Plan  | X |
| 14. Completed H&S Orientation   | X |
| 15. Emergency Spill Control   | X |
| 16. MSDS Training   | X |
| 17. Hazardous Materials Communication   | X |
| 18. Review the FSIs   | X |
| 19. General Site Safety   | X |
| 20. Employee Responsibilities   | X |
| 21. Emergency Procedures and Evacuation Plan  | X |
| 22. Injury and Incident Reporting Procedures  | X |
| 23. Reporting Procedures for Hazardous Conditions and/or Hazardous Activities                         | X |
| 24. Proper Use, Care, Maintenance, Limitations, and Instructions on how to wear and adjust PPE        | X |
| 25. Communicate Emergency Procedures for Personnel Injury, Exposures, Fires, Explosions, and Releases | X |

I acknowledge that I have received the CEC required training:

  
\_\_\_\_\_  
Employee Signature

Date: 3-5-12

  
\_\_\_\_\_  
LECEF Construction Manager

Date: 3/5/12

### LECEF TRAINING CERTIFICATION

Per the California Energy Commission Certification of Conditions, each employee must receive the following training:

- |   |           |
|---|-----------|
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| 23. Reporting Procedures for Hazardous Conditions and/or Hazardous Activities                         | <u>MC</u> |
| 24. Proper Use, Care, Maintenance, Limitations, and Instructions on how to wear and adjust PPE        | <u>MC</u> |
| 25. Communicate Emergency Procedures for Personnel Injury, Exposures, Fires, Explosions, and Releases | <u>MC</u> |

I acknowledge that I have received the CEC required training:

[Signature]

Employee Signature

Date: 3-5-12

[Signature]

LECEF Construction Manager

Date: 3/5/12





79645

# LECEF TRAINING CERTIFICATION

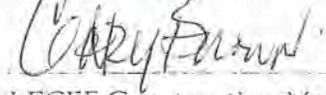
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I acknowledge that I have received the CEC required training:

  
Employee Signature

Date: 3/5/12

  
LECEF Construction Manager

Date: 3/5/12

**CONDITION OF CERTIFICATION  
CUL-5**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**

## **Monthly Report of Cultural Resources Monitoring Activities for the Los Esteros Critical Energy Facility Phase 2 From March 1, 2012 through March 31, 2012; COC CUL-6**

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

This report covers cultural resources monitoring activities at the LECEF from March 1 through March 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 the completion of the 24 and 16 way electrical duct bank trenches, modification to pipe rack foundation excavation and fuel dock foundation, excavation of crane pad foundation south of STG structure, grounding grid excavation, excavation/trenching for craft parking lighting across parking lot, excavation of a utility trench north of the gas compressors, demo and removal of existing shop foundation, excavation of a trench across entrance gate, auguring of 14 holes for light poles around craft parking lot, and several lesser excavations of saturated soils to meet compaction. Possible native sub-soils were encountered during some of these excavations. These sub-soils were usually at a depth of 3 to 4 feet from ground surface. However, the trenching across the craft parking lot and auguring for light poles exposed possible native soils of light brown silty loam at the surface with some inclusions of concrete construction debris. The native soil in the deeper excavations inside the compound is characterized as black silty clay overlaying light gray to yellow brown silty clays that may be intact depending on pre-fill topography.

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

No new cultural resources discoveries were made during this period.

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

Excavation activities will continue inside the facility. The CRM will remain on site through April 2012 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 #10  
March 2012**

**Report of Paleontological Resources Compliance Activities for  
Los Esteros Critical Energy Facility Phase 2- March 2012  
(COC PAL-4)**

**Prepared For:** Sarah Madams/SAC

**Prepared By:** Levi Pratt, Staff Paleontologist/SAC  
Geof Spaulding, PRS/LAS

**Date:** April 2, 2012

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

**Training Conducted This Month**

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

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

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

**Monitoring and Associated Activities This Period**

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

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

**Anticipated Changes in the Next Period**

No changes are anticipated at this time.

**Comments, Issues or Concerns**

None.

**CONDITION OF CERTIFICATION  
SOCIO-1**

**Los Esteros Critical Energy Facility, Phase 2  
Monthly Compliance Report #10  
March 2012**

## ACTIVITIES REPORT FOR SOCIO -1

Work contracted to date utilizing Labor from the Bay Area:

- **M.J. Electric** Underground Duct Bank
- **TELECOM/McClure Electric** Trailer City electrical and communication installation
- **MISSION CITY REBAR INC** Reinforcing Steel
- **Modular Space Corporation** Leasing Of Temporary Office And Craft Trailers
- **HOMESITE SERVICES INC** Leasing of Construction Waste Dumpsters
- **HANSON & FITCH INC** Leasing of Temporary Toilets and Hand Wash Stations
- **KIER & WRIGHT CIVIL ENGINEERS AND SURVEYORS, INC.**  
Construction  
Survey
- **TRC ENGINEERS INC** Construction Materials Inspections and Testing
- **JAN PRO COMMERCIAL CLEANING** Temporary Facilities (Trailers)  
Cleaning
- **TRC ENGINEERS INC.** Hazardous Soils Testing & Geotechnical Support
- **Central Concrete Supply** Ready Mix Concrete
- **C. Overaa & Co.** General Site Grading and Foundations
- **F-3 Surveyor**
- **CASEY-FOGLI** Cement Finishing
- **CF&T** Concrete Pumping
- **DURAN & VENABLES** for all the excavating, backfilling
- **Harder Mechanical** CW Pipe Installation and HRSG Erection

- **North American Dismantling** – Existing HRSG demolition
- **Hanson CW Pipe** Mfg'd in Illinois because only supplier that could make Project Schedule delivery dates on site.

Date: April 10, 2012

EQUIPMENT / SERVICE DESCRIPTION	MANUFACTURER	LOCATION	COMMENTS
Field Office Trailer Furniture	RD Office Solution	Burlingame, CA	
Temporary Warehouse Facilities	Big Top Manufacturing	Perry, FL	Has used supplier before for similar project in CA
Reinforcing Steel Package	Mission City Rebar	Santa Clara, CA	
LECEF CT & STG Embeds	G2 Metal Fab	Livermore, CA	
BOP Structural Steel	Nu Steel Fabricators	Childersburg, AL	Parent Co: Kern Steel, Bakersfield, CA
Turbine By-Pass & Spray Water Attemperation Valves	Control Components Inc.	Rancho Santa Margarita, CA	
Duplex Submersible Sump Pump	Roberts & Brune Company	Redwood City, CA	
UG Pipe - CS/SS	Bakersfield Pipe & Supply	Bakersfield, CA	
Piping Specialties - Steam Traps	Associated Flow Controls	San Ramon, CA	
Bottled Water	Big Bear Distributing	Freedom, CA	
Security Services	The Landshire Group	Newark, CA	
Construction Material Inspection & Testing	Signet Testing Labs	Hayward, CA	
Dust Control / Water Truck	Broom Service Inc.	Cupertino, CA	
Sweeper Truck	Broom Service Inc.	Cupertino, CA	

