CPUC AUDIT FINDINGS OF CALPINE LOS ESTEROS CRITICAL ENERGY LLC October 23-25, 2023

I. Findings

Finding 1: The Plant needs to install and/or replace confined space signs.

GO 167, Operation Standard (OS) 1: Safety states in part:

"The protection of life and limb for the work force is paramount. GAOs have a comprehensive safety program in place at each site. The company behavior ensures that personnel at all levels of the organization consider safety as the overriding priority. This is manifested in decisions and actions based on this priority."

Occupational Safety and Health Administration (OSHA) Standard 1910.146(c)(2): Permitrequired confined spaces states:

"If the workplace contains permit spaces, the employer shall inform exposed employees, by posting danger signs or by any other equally effective means, of the existence and location of and the danger posed by the permit spaces."

ESRB staff identified deteriorated and faded confined space signage around the Plant's facilities, shown below in Figures 1 to 3. Signage is required to notify staff and contractors of safety hazards and the need to obtain a permit before entering a confined space. The Plant must continue to monitor the condition of all signage and replace as needed.

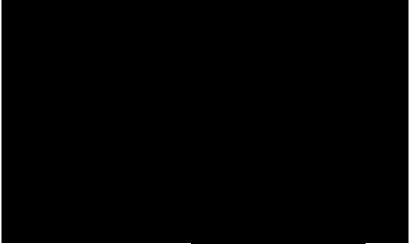


Figure 1: Confined space sign is faded.



Figure 2: Confined space sign is damaged.



Figure 3: Confined space sign for the

is faded/missing.

Finding 2: The Plant needs to address corrosion throughout the Plant's facilities.

GO 167-B, Appendix D, Maintenance Standard (MS) 1: Safety states in part:

"The protection of life and limb for the work force is paramount. The company behavior ensures that individuals at all levels of the organization consider safety as the overriding priority."

GO 167-B, Appendix D, MS 4: Problem Resolution and Continuing Improvement states:

"The company values and fosters an environment of continuous improvement and timely and effective problem resolution."

GO 167-B, Appendix D, MS 11: Plant Status and Configuration states:

"Station activities are effectively managed, so plant status and configuration are maintained to support safe, reliable and efficient operation."

GO 167-B, Appendix D, MS 13: Equipment Performance and Materiel Condition states:

"Equipment performance and materiel condition support reliable plant operation. This is achieved using a strategy that includes methods to anticipate, prevent, identify, and promptly resolve equipment performance problems and degradation."

ESRB staff observed minor to moderate corrosion on Plant's facilities, as shown in Figures 4 to 7 below. The Plant must address corrosion on its facilities since it negatively impacts structural integrity and could lead to failure if not addressed. ESRB recommends the Plant create a corrosion mitigation plan that will be designed to evaluate critical components to create a hierarchy for addressing the corrosion that was seen during the audit.



Figure 4: Concrete pad is corroded.

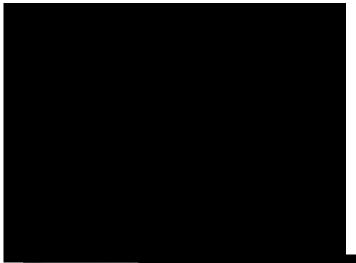
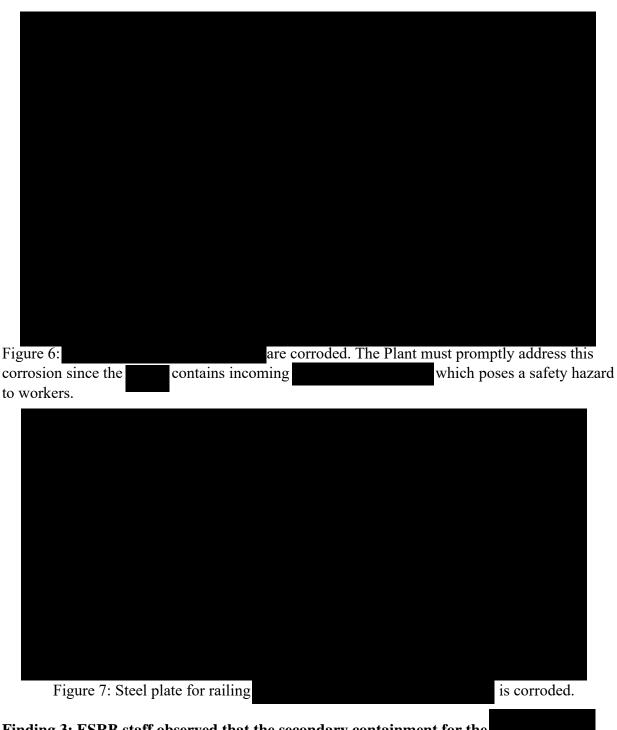


Figure 5: Concrete pad and steel base are corroded.



Finding 3: ESRB staff observed that the secondary containment for the requires resealing.

GO 167-B, Appendix D, MS 9: Conduct of Maintenance states:

"Maintenance is conducted in an effective and efficient manner, so equipment performance and material condition effectively support reliable plant operation."

GO 167-B, Appendix D, MS 13: Equipment Performance and Materiel Condition states:

"Equipment performance and materiel condition support reliable plant operation. This is achieved using a strategy that includes methods to anticipate, prevent, identify, and promptly resolve equipment performance problems and degradation."

ESRB staff observed the surface coating for secondary containment for the was cracked and pealing, see Figure 8 below. This is a crucial component in the Plant's operation which is susceptible to corrosion without a surface coating.



Figure 8: Peeling surface coating for secondary containment of

Finding 4: The Plant needs to correct AC Unit leaks throughout the Plant.

GO 167, OS 1: Safety states in part:

"The protection of life and limb for the work force is paramount. GAOs have a comprehensive safety program in place at each site. The company behavior ensures that personnel at all levels of the organization consider safety as the overriding priority. This is manifested in decisions and actions based on this priority."

GO 167, OS 11: Operations Facilities, Tools and Equipment states:

"Facilities and equipment are adequate to effectively support operations activities."

GO 167, MS 9: Conduct of Maintenance states:

"Maintenance is conducted in an effective and efficient manner so equipment performance and material condition effectively support reliable plant operation."

ESRB staff noted that all of the AC units were dripping creating slip hazards and increasing susceptibility to corrosion. The Plant must repair these leaks to maintain safety, reliability, and efficiency of the Plant.

II. Documents Reviewed

ESRB staff reviewed the following records and documents:

Category	Ref	CPUC-Requested Documents
- Carrigory	#	-
Safety	1	Orientation Program for Visitors and Contractors**
	2	Evacuation Procedure**
	3	Evacuation Map and Plant Layout
	4	Evacuation Drill Report & Critique (last 3 years)
	5	Hazmat Handling Procedure**
	6	MSDS for All Hazardous Chemicals**
	7	Injury & Illness Prevention Plan (IIPP)**
	8	OSHA Form 300 (Injury Log) in last 4 years**
	9	OSHA Form 301 (Incident Report) in last 4 years**
	10	List of all CPUC Reportable Incidents (last 5 years)
	11	Root Cause Analysis of all Reportable Incidents (if any)
	12	Fire Sprinklers Test Report (last 3 years)**
	13	Insurance Report / Loss Prevention / Risk Survey (last 3 years)
	14	Lockout / Tagout Procedure **
	15	Arc flash Analysis**
	16	Confined Space Entry Procedure**
	17	Plant Physical Security and Cyber Security Procedures and Records**
	18	Fire Protection System Inspection Record**
	19	Job Safety Analysis Program**
	20	Hot work Procedure**
	21	Safety Training Records*
Tuoinina	22	Skill-related Training Records*
Training	23	Certifications for Welders, Forklift & Crane Operators*
	24	Hazmat Training and Record*
	25	Latest list of Qualified Contractors*
Controctor	26	Contractor Selection / Qualification Procedure**
Contractor	27	Contractor Certification Records*
	28	Contractor Monitoring Program**
	29	Daily CEMS Calibration Records**
	30	Air Permit*
Regulatory	31	Water Permit*
	32	Spill Prevention Control Plan (SPCC)**
	33	RATA Test Results (past 5 years)**
	34	Hazardous Waste Transfer Manifests (past 5 years)**
	35	Daily Round Sheets / Checklists*
	36	Feedwater Grab-sample Test Records**

O&M	37	Water Chemistry Manual**
	38	Logbook**
	39	List of Open/Backlogged Work Orders*
	40	List of Closed/Retired Work Orders (last 4 quarters)*
	41	Work Order Management Procedure (last 3 revisions, if applicable)**
	42	Computerized Maintenance Management System (Demonstration Onsite)**
	43	All Equipment Failure Root Cause Analyses **
	44	Vegetation Inspection & Control Program Records*
Main Plant Compressor(s)	45	Inspection Procedures and Records*
D	46	P&IDs*
Document	47	Vendor Manuals*
Spare Parts	48	Spare Parts Inventory List*
	49	Shelf-life Assessment Report*
3.6	50	Employee Performance Review Procedures and Verifications**
Management	51	Organizational Chart*
	52	Scaling Inspection & Removal Program and Records*
	53	Safety Valve Test Records*
G. D.	54	Hot Spots / IR Inspection Reports*
Steam Piping	55	FAC Inspection Procedure & Measurements*
	56	Corrosion Under Insulation Inspection Program*
	57	Pipe Hangers / Support Calibration Records*
	58	NDE Reports*
	59	Overspeed Trip Test Records*
	60	Bearing Lube Oil Analysis Reports*
Steam Turbine	61	DC Lube Oil Pump Test Records*
	62	Emergency Stop Valve Test Records on Main Steam Line*
	63	Borescope Inspection Records*
	64	Most recent Major/Minor STG inspection reports*
	65	Bearing Lube Oil Analysis*
Generator	66	Maintenance & Inspection Procedures (or related documents)**
	67	Polarization Test Records*
T	68	Hot Spots / IR Inspection Reports*
Transformer	69	Oil Analysis Reports*
Cathodic Protection	70	Procedures and Inspection Records*
Cooling Tower System	71	Cooling Fans & Motors Inspection Records*
	72	Cooling Tower Structural Integrity Assessment*
	73	Condensate Pumps Maintenance Records*
Reinjection Pumps	74	Maintenance & Inspection Procedures and Records*
Instrumentation	75	Instrument Calibration Procedures and Records*

Test Equipment	76	Calibration Procedures and Records*
Emission Control Equipment	77	Maintenance & Inspection Procedures and Records**
Internal Audit	78	Internal Audit Procedures and all Records**

^{*} Provide data in a searchable format such as a searchable PDF, Word Document, Excel Spreadsheet, etc.

^{**} These items may be provided on-site by the first day of the audit.