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Stanton Energy Reliability Center

CEC Docket No. 16-AFC-01
Monthly Compliance Report No. 8
Reporting Period: September 2019



Prepared by Stanton Energy Reliability Center, LLC (SERC)
Submitted October 12, 2019

Table of Contents

Key Events List	3
1. Summary	3
1.1 Engineering	4
1.2 Procurement	5
1.3 Construction.....	5
1.4 Explanation of Significant Changes to the Schedule	6
2. Documents Required by Specific Conditions for MCR.....	6
3. Compliance Matrix	7
4. Conditions Satisfied During Reporting Period	7
5. Missed Deadlines.....	11
6. Approved Changes to Conditions of Certification (COC)	11
7. Governmental Agencies Submittals / Permits.....	11
8. Compliance Activity Two Month Schedule	11
9. On-Site Compliance File.....	11
10. Incidents, Complaints, Notices of Violation, Official Warnings and Citations.....	12
Attachment 1 – COM-6 Project Schedule	13
Attachment 2 – COM-5 Compliance Matrix	29
Attachment 3 – Air Quality.....	88
Attachment 4 –Biological Resources	207
Attachment 5 – CIVIL.....	311
Attachment 6 – Cultural Resources.....	313
Attachment 7 - Paleontology	326
Attachment 8 – ELEC-1	436
Attachment 9 – GEN-2 Master Drawing List	438
Attachment 10 – GEN-3 CBO Payment	440
Attachment 11 – GEN-6 Special Inspectors.....	442
Attachment 12 – Gen-7 Discrepancy.....	453
Attachment 13 – GEN-8 Final Inspections.....	455
Attachment 14 – SOIL&WATER-4 Water Use.....	457
Attachment 15 – SOIL&WATER-8 Encroachment Permit	459
Attachment 16 – STRUC-1 CBO Approvals	461
Attachment 17 – TRANS-1 Permits	467
Attachment 18 – Safety Inspection Report	470
Attachment 19 – CIVIL-3 Non-Compliance Reports	472
Attachment 20 - COM-6 Filings & Permits to/by Government Agencies	474
Attachment 21 - COM-11 Reporting of Complaints, Notices, and Citations	483
Attachment 22 – MECH-1 CBO Inspection Approvals	485

Key Events List

PROJECT:	Stanton Energy Reliability Center
DOCKET #:	16-AFC-01
COMPLIANCE PROJECT MANAGER:	John Heiser
EVENT DESCRIPTION	DATE
CEC Decision Date	November 7, 2018
Obtain Site Control	February 12, 2019
Online Date	July 1, 2020
POWR PLANT SITE ACTIVITIES	
Start Site Assessment/Pre-Construction	January 31, 2019
Start Site Mobilization/Construction	February 12, 2019
Begin Pouring Major Foundation Concrete	March 29, 2019
Begin Installing Major Equipment	September 4, 2019
Completion of Installation of Major Equipment	December 24, 2019
First Combustion of Gas Turbine	December 23, 2019
Obtain Building Occupation Permit	TBD
Start Commercial Operation	BESS July 1, 2020; LM6000 July 1, 2020
Complete All Construction	April 28, 2020
TRANSMISSION LINE ACTIVITIES	
Start Transmission Line Construction	August 2019
Complete Transmission Line Construction	November 2019
Synchronization with Grid and Interconnection	March 2, 2020
FUEL SUPPLY LINE ACTIVITIES	
Start Gas Pipeline Construction and Interconnection	August 2019
Complete Gas Pipeline Construction	November 2019
WATER SUPPLY LINE ACTIVITIES	
Start Water Supply Line Construction	TBD
Complete Water Supply Line Construction	TBD

1. Summary

On November 7, 2018, the California Energy Commission (CEC) issued its Commission Decision (Docket No. 16-AFC-01) approving construction and operation of the Stanton Energy Reliability Center (SERC) Project. The CEC Compliance Project Manager (CPM) issued a Limited Notice to Proceed (LNTP) on January 31, 2019, allowing the start of construction activities at the power plant site. The Full Notice to Proceed (FNTP) was issued by the CEC on February 12, 2019.

Upon the CEC docket of the Final Decision, SERC made Payment of the Annual Energy Facility Compliance Fee. The next payment and all subsequent payments are due by July 1, of each year.

This document is a Monthly Compliance Report (MCR) as required by Condition of Certification (COC) COM-6. The information in this report documents the engineering, procurement, construction, and compliance activities that were performed during the reporting period: September 2019.

Stanton Energy Reliability Center, LLC (SERC) has selected ARB, Inc. as its general contractor. Power Engineers, under a separate contract is providing the project detailed design engineering. Procurement and construction management services are being provided by Wellhead Construction, Inc. Southern California Edison (SCE) will construct the transmission interconnection facilities. Southern California Gas will design, build and operate the natural gas pipeline associated with the project. Jacobs Engineering has been retained by SERC to assist with construction monitoring and environmental and CEC compliance. NV5 has been selected by the CEC as the Designated Chief Building Official (DCBO).

September marks the start of equipment setting and erection on Parcel 1. The Combustion Turbine Enclosures, Generator Enclosures, and several auxiliary skids were set on Units 1 and 2. The Generator Step-up Transformer (GSU) was set on its foundation and was dressed out. The Power Distribution Module (PDM) and Unit 1 Control Module (CM) were also set on their foundations.

A preliminary project summary schedule is included in Attachment 1.

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

The following table represents the percent complete numbers for the engineering, procurement, and construction activities as of the end of September 2019.

Activity	Percent Complete
Engineering	
Power Island	99%
CBO Support	75%
BESS Design	33%
Procurement	
Owner Supplied Equipment	93%
Contractor Supplied Equipment	81%
Construction	
Power Island	39%
BESS	1%

1.1 Engineering

Through the month of September 2019, Power Engineering (PEI) continued to support SERC with responses to CBO comments, provision of lists to expedite approvals, and visit the site as required by the CBO. PEI continues to receive RFI's and contractor material submittals. Weekly meetings are held with the DCBO and CPM to review progress.

Power Engineers also prepared and submitted reports for structural site visits. 15-kV switchgear schematic drawings were issued for review. A sketch of the SCE duct bank was provided for SCE use. Provided balance of plant cable terminations. The supervisory control system logic diagrams were issued for review, and Power Engineers continued programming for these systems. Substation relay panel terminations were issued.

In addition, Power Engineers provided the following support in September:

- Continued to receive contractor request for information and respond.
- Prepared engineering supplemental information documents to construction with design modifications.
- Continued to receive equipment vendor shop drawings for review, comment and coordination with design.
- Continued to respond to DCBO comments.
- Continued to participate in weekly design coordination calls.

1.2 Procurement

The procurement of Owner Supplied Equipment (OSE) continues and is currently 93% complete.

The procurement of Contractor Supplied Equipment (CSE) continues and is currently 81% complete. Major procurement activities completed by construction contractor in September include:

- Cable Tray Procurement
- Received Demin Tank Material Delivery

1.3 Construction

During the month of September Began receiving Owner Supplied Equipment and setting the following major equipment in parcel 1 :

- Unit 1 CT Enclosure and Generator Enclosure
- Unit 1 Fin Fan Lube Oil Cooler, Auxiliary Skid, Water Injection Skid and Fogging Skid
- Unit 2 CT Enclosure and Generator Enclosure
- Unit 2 Fin Fan Lube Oil Cooler, Auxiliary Skid, Water Injection Skid and Fogging Skid
- Unit 2 Generator
- Generator Step-up Transformer
- Power Distribution Module (PDM) and Unit 1 Control Module (CM)
- Fuel Gas Compressor and Fuel Gas Compressor Fin Fan cooler

Safety:

The month of September was completed with two First Aids, no lost time injuries or recordables injuries. Weekly all hands meetings continue to address issues and raise morale through training and information.

During this reporting period the project worked 14,153 man-hours without a lost time or recordable incident. To date, the project has worked 80,700 man-hours without a lost time,

or recordable Incident, and only four first aids. An employee appreciation lunch was provided to all employees acknowledging the sites safety record.

Weekly coordination calls were held amongst project participants during the reporting period.

Civil:

- Continued backfill around Trenwa on Unit 1
- Excavation and backfill for miscellaneous foundations

Piping:

- Installation of Aboveground Pipe continued in Parcel 1
- Began installation of Above Ground (AG) Pipe at the Gas Compressor and Unit 2 areas
- Completed installation of piping on Utility Bridge
- Continued working in the Water Treatment area

Structural:

- Completed Switchyard area foundations
- Completed 4160V FGC Aux Foundation
- Completed SPM fire wall and piers for PDM and CMs
-

Electrical:

- Continued Material Procurement
- Working on installation of Trenwa along Unit 1 foundation
- Continued installing Cable Tray
- Installed AG conduit on equipment as it is being set
- Supported generator installation
- Grounding of AG Equipment and structures
- Completed 66kV Duct bank

1.4 Explanation of Significant Changes to the Schedule

Mechanical Completion has been forecasted from February 26, 2020 to February 27, 2020 as shown in the September MCR.

2. Documents Required by Specific Conditions for MCR

The Documents required by specific conditions have been identified in Section 4 “Conditions Satisfied During Reporting Period” of this report and are also included in the in Attachments.

During this reporting period there were no Discrepancies to report as required in GEN-7. As such, Attachment 12 contains no information.

During this reporting period there were no changes to the encroachment permit as required in SOIL&WATER-8. As such, Attachment 15 contains no information.

During this reporting period there were no Discrepancies or Non-Compliance items to report as required in CIVIL-3 as indicated in Attachment 19.

3. Compliance Matrix

The compliance matrix was updated during the reporting period to reflect the dates that compliance submittals were provided to the CEC and DCBO and the dates of any approvals by the DCBO, CEC or other agencies having review or approval rights. The Compliance Matrix is included in Attachment 2.

4. Conditions Satisfied During Reporting Period

The Commission Decision sets forth specific conditions, many of which include reporting requirements that must be addressed in an MCR. This section of the MCR describes activities that ensure compliance is achieved with all conditions of verification in the Commission Decision for the SERC Project. The report format is designed to be comprehensive and inclusive of all Conditions of Certification that require monthly reporting.

Many Conditions of Certification are addressed in the attachments to this MCR. The following one-time and/or monthly compliance activities were completed or addressed during the report period:

AQ-SC3: 1) A summary of all actions taken to maintain compliance with this condition 2) Copies of any complaints filed with the South Coast Air Quality Management District (SCAQMD) in relation to project construction; and 3) other documentation deemed necessary to verify compliance with this condition are included in the AQCM's monthly report in Attachment 3.

AQ-SC4: 1) Work activities requiring dust control and a summary of all actions taken to maintain compliance with this condition; 2) copies of any complaints filed with the SCAQMD in relation to project construction; and 3) any other documentation necessary to verify compliance with this condition are included in the AQCM's monthly report in Attachment 3.

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

BIO-2: A monthly Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP) provides a summary of reporting period construction activities and associated biological monitoring and is included in Attachment 4.

BIO-5: During the reporting period 84 personnel received the Worker Environmental Awareness Program (WEAP) training. The total number of personnel trained to date is 427. Documentation of worker training records for the reporting period is included in Appendix E of Attachment 4.

BIO-6: The Designated Biologist and Biological Monitor provides monthly documentation on how the biological mitigation measures defined in the BRMIMP have been implemented during the reporting period. This information is included in Attachment 4.

BIO-8: The Designated Biologist and Biological Monitors have provided documentation on pre-construction nest surveys to the CPM, California Department of Fish and Wildlife (CDFW) and U.S. Fish and Wildlife Service (USFWS) as required. These activities and reports are addressed in the Monthly Biological Report included as Attachment 4. Impact avoidance and minimization measures related to nesting and breeding birds have been implemented during the reporting period. This information is included in Attachment 4.

CIVIL-1: There were no proposed changes to the drainage structures and the grading; the erosion and sedimentation control plan; the construction Storm Water Pollution Prevention Plan (SWPPP); related calculations and specifications that have been signed and stamped by the responsible civil engineer or the soils, geotechnical or foundation investigations reports required by the 2016 CBC that have been previously submitted and approved by the CBO.

CIVIL-3: There were no inspection, non-conformance reports during the reporting period. (Attachment 5)

COM-5: An updated compliance matrix is provided as Attachment 2.

COM- 6: This MCR conforms to and satisfies the COC.

COM-7: There were no required Periodic or Annual Compliance Reports due in this reporting period.

COM-9: The Annual Compliance Fee was paid by SERC, LLC on Jun 5th. Documentation of the payment, including a receipt from the CEC was forwarded to the CPM.

COM-10: On September 13, 2019 SERC filed a Petition for Post Certification Change (TN#: 229730) with the CEC requesting the site boundary be modified to eliminate a portion of Parcel 2 from the Commission Final Decision. The petition is still under review by the CEC staff and docketed on September 26 starting the 14-day public comment period.

On September 23, 2019 SERC filed a Petition for Post Certification Change (TN#:229517) with the CEC requesting three additional temporary construction laydown areas for gas pipeline work, parking, and equipment. The petition was approved by the CEC staff and docketed on September 26 starting the 14-day public comment period.

COM-11: There were no complaints, notices, warnings, citations or fines during this reporting period. The Complaint Log can be found in Attachment 21 of this MCR.

COM-13: No Incident-Reporting Requirements occurred during this reporting period.

CUL-1: There were no additional CRS or CRM's proposed during the reporting period.

CUL-2: Three week look ahead schedules are being provided weekly to allow the CRS to plan the CRM's monitoring work accordingly. The CPM is being copied on these schedules as well.

CUL-3: The CRMMP is being fully implemented. Specific details can be found in the daily cultural resource reports being submitted to the CPM and in the monthly Cultural Resources Report included as Attachment 6 of this MCR.

CUL-5: During the reporting period 84 personnel received the Worker Environmental Awareness Program (WEAP) training. The total number of personnel trained to date is 427. Documentation of worker training records for the reporting period is included in Appendix D of Attachment 4.

CUL-6: On September 23, 2019 the SoCal Gas construction contractor performed potholing in an area of native sediments without the proper monitors present resulting in a Non-Compliance condition. This is detailed in the Cultural Resources Specialist's monthly summary report and is included as Attachment 6 to this MCR.

CUL-7: There were no cultural resource discoveries made during the reporting period.

ELEC-1: Documentation of transmittal of electrical construction design review and approval by the DCBO during the reporting period. During this reporting period there were no review and approvals by the DCBO therefore Attachment 8 has been left blank.

GEN-2: There were no schedule updates in the reporting period to the facility design schedule, the master drawings and master specifications list (Attachment 9).

GEN-3: Proof of payment to the DCBO during this reporting period is included in Attachment 10.

GEN-6: There were three (4) additional special inspectors approved during the reporting period as indicated in Attachment 11.

GEN-7: During this reporting period there were no Design Discrepancy Correction as described in GEN-7.

GEN-8: There were no final inspections during this reporting period as described in GEN-8 (Attachment 13).

HAZ-2: On August 2, 2019 SERC filed a hazardous materials business plan and a spill prevention control countermeasures plan to the California Energy Commission and Orange County Environmental Health Division (OCEHD) for review. Comments were from the DCBO have been forwarded to the CEC for review. SERC will incorporate these comments once received from the CEC.

HAZ 8: On August 9, SERC made notification of the availability of the Site-Specific Site Security plan in accordance with HAZ-8. On August 21, 2019 CPM was on site and received a copy of the plan to review. On August 29, 2019 the CEC provided comments, SERC incorporated the comments and presented to the CEC during their site visit on September 18, 2019.

MECH-1: There were six (6) submittals from SERC to the CBO during this reporting period. Documentation of transmittal letters of completion of all DCBO inspections are included in Attachment 22.

MECH-2: There were no on-site fabrication or installation of any pressure vessels during this reporting period.

NOISE-2: There were no noise complaints received during this reporting period.

PAL-1: The additional PRM's (David Alecander, Tara Redinger, and Ryan Rolston) were proposed during the reporting period.

PAL-2: Three week look ahead schedules are being provided weekly to allow the PRS to plan the PRM's monitoring work accordingly. The CPM is being copied on these schedules as well.

PAL-3: The PRMMP is being fully implemented. Specific details can be found in the Monthly Paleontology Resources Report included as Attachment 7.

PAL-5: During the reporting period 84 personnel received the Worker Environmental Awareness Program (WEAP) training. The total number of personnel trained to date is 427. Documentation of worker training records for the reporting period is included in Appendix D of Attachment 4.

PAL-6: On September 23, 2019 the SoCal Gas construction contractor performed potholing in an area of native sediments without the proper monitors present resulting in a Non-Compliance condition. A summary of the Paleontological Resource Specialist's activities during the reporting period including daily monitoring logs is included in the Monthly Paleontology Report included as Attachment 7.

SOIL&WATER-4: The monthly water use for SERC during the reporting period was 10860 CF. Daily water usage is provided within Attachment 14.

STRUC-1: Documentation of DCBO approval of structural plans, specifications, and calculations during the reporting period is included in Attachment 16. Additionally, copies of the STRUC 1 transmittal cover sheets from the STRUC 1 submittals to the CBO were provided to the CPM in accordance with this condition of certification.

STRUC-3: There were no design changes to the final plans required by the 2016 CBC, including the revised drawings, specifications, calculations, and a complete description of, and supporting rationale for, the proposed changes during this reporting period.

TRANS-1: There were nineteen (19) deliveries requiring permits during the reporting period for vehicle sizes, weights, driver licensing and truck routes as identified in Attachment 17

TRANS-5: The project did not contract with licensed hazardous materials delivery and waste hauler companies for the transportation of hazardous materials and wastes during this reporting period.

TSE-1: There were no schedule updates to the transmission facilities design submittals, Master Drawings List, and a Master Specifications List or Major Equipment and Structure List during the reporting period.

TSE-2: There were three (30 receipts of major electrical equipment, testing or energizing of major electrical equipment construction of power plant switchyard, outlet line, and termination during this reporting period.

- Generator Step-up Transformer
- Unit 2 Generator
- 66kV SF6 Breaker and associated air disconnect switches

The OEM Delivery and Installation testing was performed on the Generator Step-up Transformer and Unit 2 Generator. Testing will be performed on the 66kV SF6 Breaker and associated air disconnect switches once they have been set in position.

VIS-3: There were no lighting complaints for any construction activity during this reporting period.

WASTE-4: During this reporting period fourteen (14) forty-yard bins of construction waste left the site and two (2) eco pans of solid waste left the site.

WASTE-6: SERC is keeping a copy of the hazardous waste generator identification number(s) on file at the project site (EPA ID 2-27-19-CAR000292565). Documentation of any new or revised hazardous waste generation notifications or changes in identification number are required to be provided to the CPM in the next scheduled compliance report. There have been no revisions during this reporting period.

WASTE-9: There were no spills or releases of hazardous substances, materials, or waste are reported, cleaned up, and remediated as necessary, in accordance with all applicable federal, state, and local requirements during this reporting period.

WORKER SAFETY-3: The CSS's Monthly Compliance Report includes documentation of 1) employees trained, 2) safety management actions safety-related incidents, 3) unresolved situation and incidents that may pose a danger to life and health, 4) reports of any visits from Cal/OSHA and/or any complaints from workers to Cal/OSHA and 5) reports of accidents, injuries, and near misses during the reporting period is included in this MCR as Attachment 18.

5. Missed Deadlines

There were no missed deadlines during this reporting period.

6. Approved Changes to Conditions of Certification (COC)

No changes to the COC occurred during this reporting period.

7. Governmental Agencies Submittals / Permits

The Permits by Government Agencies as required in COM-6 are included in Attachment 20.

8. Compliance Activity Two Month Schedule

- Adhere to Conditions of Certification, defined herein, that require monthly activities and/or per event submittals.
- COM-5 and 6 – Submit MCR and compliance matrix to the CEC.

9. On-Site Compliance File

SERC, LLC is maintaining electronic copies of all project files and submittals in accordance with COC COM-2 and the clarifications received from the CPM on March 21, 2019 regarding electronic record retention. At least one hard copy of the following will be kept onsite:

1. all finalized original and amended structural plans and “as-built” drawings for the entire project (later)
2. the most current versions of any plans, manuals, and training documentation required by the COC or applicable LORS

10. Incidents, Complaints, Notices of Violation, Official Warnings and Citations

There were no incidents, notices of violation, official warnings or citations received during the month of September 2019.

Attachment 1 – COM-6 Project Schedule

SERC Baseline Project Master Schedule (w/ARB Sep Sched) CEC/SCE (F9)				WBS Summary				10-Oct-19 10:14																										
Activity ID	Activity Name	OD	% Comp	Start	Finish	TF	Fin. Var.					2020								2021														
								Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
40	Order of Long Lead Time Items	0	100%	23-May-18 A			0																											
41	FNTP	0	100%	23-Aug-18 A			0																											
43	Receipt of Notice of Ready to Ship (RTS)	0	100%		11-Apr-19 A		0																											
44	Delivery Per FCA (Goods Actually Ready For Shipment)	0	100%		21-May-19 A		0																											
42	Manufacturer Time (FNTP-Delivery)	169	100%	23-Aug-18 A	21-May-19 A		0																											
A1000	Transportation From FCA Delivery Point To Site	40	100%	21-May-19 A	01-Aug-19 A		0																											
Emissions Reduction Unit (ERU)		356	92.7%	08-Feb-18 A	14-Nov-19	381	0																											
47	Effective Date of the ERU Supply Contract	0	100%		08-Feb-18 A		0																											
57	Selection of Nox & CO Catalyst	0	100%		01-Jun-18 A		0																											
62	Engineering Received from Manufacturer	0	100%		05-Jul-18 A		0																											
56	Engineering Received from Manufacturer	0	100%		13-Jul-18 A		0																											
61	Approval of Engineering	0	100%		19-Jul-18 A		0																											
55	Approval of Engineering	0	100%		27-Jul-18 A		0																											
54	Release for Fabrication of Nox & CO Catalyst	0	100%		13-Aug-18 A		0																											
53	Delivery of instalation proceedures	0	100%		24-Aug-18 A		0																											
60	Engineering Received from Manufacturer	0	100%		30-Aug-18 A		0																											
52	Delivery of maintenance proceedures	0	100%		07-Sep-18 A		0																											
59	Approval of Engineering	0	100%		13-Sep-18 A		0																											
58	FNTP	0	100%	12-Oct-18 A			0																											
A1010	Fabrication Drawings	4	100%	12-Oct-18 A	01-Feb-19 A		0																											
A1020	SERC Review Fabrication Drawings	4	100%	01-Feb-19 A	15-Feb-19 A		0																											
51	Manufacturer Time (FNTP-Delivery)	123	100%	15-Feb-19 A	18-Jun-19 A		0																											
49	NOx & CO Modules	0	0%		11-Oct-19	400	0																											
50	Delivery/Goods Received (Duct, Stack, Silencer)	59	72.97%	01-Jul-19 A	25-Oct-19	381	0																											
A1030	Transportation Of ERU Materials	4	0%	01-Jul-19 A	14-Nov-19	381	0																											
Generator Step-Up Transformer (GSU)		194	100%	29-Jun-18 A	31-May-19 A		0																											
64	LNTP/PO Date	0	100%		29-Jun-18 A		0																											
66	FNTP	0	100%	20-Sep-18 A			0																											
65	Engineering Received from Manufacturer	56	100%	29-Jun-18 A	20-Sep-18 A		0																											
67	Manufacturer Time (FNTP-Delivery)	162	100%	20-Sep-18 A	28-Feb-19 A		0																											
69	Delivery/Goods Received At Site	0	100%		31-May-19 A		0																											
Vehicle Bridge		47	100%	01-Nov-18 A	22-Mar-19 A		0																											
71	LNTP/PO Date	0	100%	01-Nov-18 A			0																											
73	FNTP	0	100%		07-Jan-19 A		0																											
72	Engineering Received from Manufacturer	32	100%	02-Nov-18 A	07-Jan-19 A		0																											
74	Manufacturer Time (FNTP-Delivery)	24	100%	08-Jan-19 A	28-Feb-19 A		0																											
75	Delivery/Goods Received	0	100%		22-Mar-19 A		0																											
Balance Of Plant OSE		119	100%	01-Jul-18 A	01-Apr-19 A		0																											
78	Place BOP OSE Purchase Orders	180	100%	01-Jul-18 A	28-Dec-18 A		0																											

Remaining Level of Effort

Actual Work

Critical Remaining Work

Actual Level of Effort

Remaining Work

Milestone

Milestone

Page 2 of 15

TASK filter: Not Level Of Effort.

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SERC Baseline Project Master Schedule (w/ARB Sep Sched) CEC/SCE (F9)				WBS Summary				10-Oct-19 10:14																							
Activity ID	Activity Name	OD	% Comp	Start	Finish	TF	Fin. Var.					2020								2021											
								Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
79	Available for delivery to the Project Site	0	100%	01-Apr-19 A			0																								
Construction Contracting		97	100%	03-Sep-18 A	24-Jan-19 A		0																								
81	Receive Initial Bids from Construction Contractors	0	100%	03-Sep-18 A			0																								
82	Review Initial Bids	30	100%	04-Sep-18 A	04-Oct-18 A		0																								
84	Achieve Commercial Lockdown	0	100%		26-Nov-18 A		0																								
83	Short list two construction contractors and negotiate draft	28	100%	04-Oct-18 A	26-Nov-18 A		0																								
86	Final Bids Turned In	0	100%		14-Dec-18 A		0																								
85	Contractor Pricing Refresh	18	100%	26-Nov-18 A	14-Dec-18 A		0																								
87	Review Final Bids / Select Contractor	2	100%	14-Dec-18 A	20-Dec-18 A		0																								
89	Make executed construction contract available in the SER	0	100%		21-Dec-18 A		0																								
88	Execute Construction Contract	0	100%		21-Dec-18 A		0																								
90	Provide Notice To Proceed to Contractor	0	100%		24-Jan-19 A		0																								
Project Finance		176	100%	16-Oct-18 A	24-Jan-19 A		0																								
92	Provide Mandate to Helaba	0	100%	16-Oct-18 A			0																								
93	Perform Dilligence	1	100%	16-Oct-18 A	14-Jan-19 A		0																								
94	Develop Loan Documentation	4	100%	16-Oct-18 A	17-Jan-19 A		0																								
95	Financial Close	0	100%	24-Jan-19 A			0																								
CEC Compliance		560	27.29%	19-Dec-18 A	02-Oct-21	0	-21																								
CBO Activity		217	54.98%	19-Dec-18 A	25-Mar-20	310	0																								
99	CBO Kick off Meeting	0	100%		19-Dec-18 A		0																								
98	CBO Contract Execution	0	100%	19-Dec-18 A			0																								
CBO performance of duties		217	54.98%	26-Dec-18 A	25-Mar-20	310	0																								
101	Review and approve Pre-construction submittal	1	100%	26-Dec-18 A	27-Dec-18 A		0																								
103	Perform Plan Check of Submittals	148	35.81%	27-Dec-18 A	05-Nov-19	386	0																								
102	Inspector On Site	390	54.36%	04-Feb-19 A	25-Mar-20	556	0																								
CEC Compliance R1		644	9.07%	20-Jul-19 A	02-Oct-21	0	-30																								
Air Quality		455	0%	30-Oct-19	21-May-21	107	-2																								
AQ-1010	AQ-D1b - Initial Source Test	0	0%	30-Oct-19		562	-2																								
AQ-1015	AQ-D1b - Initial Source Test	0	0%	07-Feb-20		482	-2																								
AQ-1020	AQ-D2 - Operations Source Test	0	0%	05-May-20		412	-2																								
AQ-1170	AQ-K1 - Source Test Results	0	0%	11-Jun-20		382	-2																								
AQ-1100	AQ-D5 - CEMS for NOx	0	0%	11-Jun-20		382	-2																								
AQ-1080	AQ-D4 - CEMS for CO	0	0%	11-Jun-20		382	-2																								
AQ-1160	AQ-H1 - NOx CEMS Performance Evaluation	0	0%	02-Oct-20		292	-2																								
AQ-1000	AQ-D1a - Initial Source Test	0	0%	02-Oct-20		292	-2																								
AQ-1050	AQ-D3 - NH3 Source Test	0	0%	21-May-21		107	-2																								
Biological		376	50.06%	31-Jul-19 A	12-Nov-20	259	0																								
BIO-1030	BIO-8a1 - Pre-Construction Nest Surveys and Impact Avoic	0	100%	31-Jul-19 A			0																								
BIO-1050	BIO-8b - Preconstruction Nest Survey Letter Report	0	100%	19-Aug-19 A			0																								
BIO-1040	BIO-8a2 - Pre-Construction Nest Surveys and Impact Avoic	0	100%	19-Aug-19 A			0																								
Legend		Remaining Level of Effort		Actual Work		Critical Remaining Work		TASK filter: Not Level Of Effort.																				© Oracle Corporation			
		Actual Level of Effort		Remaining Work		Milestone																									

SERC Baseline Project Master Schedule (w/ARB Sep Sched) CEC/SCE (F9)				WBS Summary				10-Oct-19 10:14																											
Activity ID	Activity Name	OD	% Comp	Start	Finish	TF	Fin. Var.					2020												2021											
								Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BIO-1060	BIO-8c - Implementation of Nest Surveys and Inclusion in I	0	100%	19-Sep-19 A			0	◆																											
BIO-1020	BIO-7b - General Impact Avoidance and Mitigation Measun	0	0%	08-May-20		409	0							◆																					
BIO-1010	BIO-6e - BRMIMP Construction Closure Report	0	0%	08-May-20		409	0							◆																					
BIO-1000	BIO-5c - WEAP Training Acknowledgement Forms on File	0	0%	12-Nov-20		259	0														◆														
Civil		0	0%	23-Apr-20	23-Apr-20	422	0																												
CIV-1010	CIVIL-4a - Final Grading Plan Approval	0	0%	23-Apr-20		422	0							◆																					
Communication		0	0%	17-Jan-20	17-Jan-20	499	0																												
COM-1020	COM-12b - Emergency Response Site Contingency Plan	0	0%	17-Jan-20		499	0				◆																								
Cultural		90	0%	23-Apr-20	13-Aug-20	332	0																												
CUL-1000	CUL-1j - Discharge the CRS, after receiving approval from i	0	0%	23-Apr-20		422	0							◆																					
CUL-1010	CUL-4b - Final Cultural Resources Report	0	0%	13-Aug-20		332	0												◆																
General		104	0%	01-Apr-20	09-Aug-20	335	-14																												
GEN-1030	GEN-8b - Plan and Specification Storage	0	0%	01-Apr-20		439	0							◆																					
GEN-1040	GEN-8c - Plan and Specification Archive Copies	0	0%	23-Jul-20		349	0												◆																
GEN-1010	GEN-1b - Certificate of Occupancy	0	0%	09-Aug-20		335	-30												◆																
GEN-1000	GEN-1a - Certificate of Occupancy	0	0%	09-Aug-20		335	-30												◆																
Hazardous		142	55.93%	20-Jul-19 A	13-Jan-20	502	-2																												
HAZ-1080	HAZ-8a - Operations Site Security Plan	0	100%	20-Jul-19 A			0																												
HAZ-1000	HAZ-2a - Final HMBP and SPCC	0	100%	20-Jul-19 A			0																												
HAZ-1060	HAZ-6a - HazMat Transport Route Restrictions	0	100%	28-Jul-19 A			0																												
HAZ-1010	HAZ-2b - Final Risk Management Plan	0	100%	29-Jul-19 A			0																												
HAZ-1070	HAZ-6b - Route Restrictions, New Vendor	0	100%	23-Aug-19 A			0																												
HAZ-1050	HAZ-5 - Transport Vehicle Specifications	0	0%	27-Oct-19		565	-6		◆	◆																									
HAZ-1040	HAZ-4 - Ammonia Storage Tank Design	0	0%	27-Oct-19		565	-6		◆	◆																									
HAZ-1030	HAZ-3 - Aqueous Ammonia Safety Management Plan	0	0%	27-Oct-19		565	-6		◆	◆																									
HAZ-1020	HAZ-2c - Final Risk Management Plan	0	0%	27-Oct-19		565	-6		◆	◆																									
HAZ-1090	HAZ-9 - Fuel Gas Pipe Cleaning	0	0%	13-Jan-20		502	-2					◆																							
Mechanical		30	100%	24-Aug-19 A	01-Oct-19	585	5																												
MECH-1000	MECH-2a - Pressure Vessel Installation	0	100%	24-Aug-19 A			0																												
MECH-1020	MECH-3b - HVAC Plans	0	0%	01-Oct-19		585	5		◆	◆																									
MECH-1010	MECH-3a - HVAC Plans	0	0%	01-Oct-19		585	5		◆	◆																									
Noise		15	0%	04-Apr-20	23-Apr-20	422	0																												
NOI-1030	NOISE-5 - Occupational Noise Survey	0	0%		04-Apr-20	437	0								◆																				
NOI-1010	NOISE-4a - Operational Noise Survey	0	0%	04-Apr-20		422	0								◆																				
NOI-1020	NOISE-4b - Noise Survey Summary Report	0	0%	23-Apr-20		422	0								◆																				
Paleo		60	0%	13-Aug-20	27-Oct-20	272	0																												
PAL-1000	PAL-7 - Paleontological Resources Report	0	0%	13-Aug-20		272	0												◆																
PAL-1010	PAL-8 - Curation Entity/Curation Fees	0	0%	27-Oct-20		272	0														◆														
Structural		0	0%	27-Oct-19	27-Oct-19	565	-6																												
STR-1010	STRUC-4a - Tank and HazMat Vessel Design	0	0%	27-Oct-19		565	-6		◆	◆																									
Transmission		0	0%	27-Dec-19	27-Dec-19	516	0																												

Remaining Level of Effort

Actual Work

Critical Remaining Work

Actual Level of Effort

Remaining Work

◆

◆ Milestone

Page 4 of 15

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SERC Baseline Project Master Schedule (w/ARB Sep Sched) CEC/SCE (F9)				WBS Summary				10-Oct-19 10:14																											
Activity ID	Activity Name	OD	% Comp	Start	Finish	TF	Fin. Var.					2020												2021											
								Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	TLSN-1010	TLSN-2 - Metallic Objects Grounded	0	0%	27-Dec-19		516	0					◆																						
	Transportation		0	0%	12-Nov-20	12-Nov-20	259	0																											
	TNP-1000	TRANS-4b - Copies of Permits	0	0%	12-Nov-20		259	0																											
	Switchyard		485	0%	04-Feb-20	02-Oct-21	0	-30																											
	TSE-1060	TSE-4b - Notice to CAISO	0	0%	04-Feb-20		485	0					◆																						
	TSE-1050	TSE-4a - Notice to CAISO	0	0%	11-Feb-20		479	0					◆																						
	TSE-1090	TSE-5d - As-Built Drawings	0	0%	18-Apr-20		426	0							◆																				
	TSE-1080	TSE-5c - As-Built Drawings	0	0%	18-Apr-20		426	0							◆																				
	TSE-1070	TSE-5b - As-Built Drawings	0	0%	18-Apr-20		426	0							◆																				
	TSE-1020	TSE-2b - Final Switchyard Design	0	0%	02-Oct-21		0	-30																											
	Visual		252	0%	01-Jan-20	12-Nov-20	259	0																											
	VIS-1010	VIS-2a - Screening Landscaping Plan	0	0%	01-Jan-20		512	0					◆																						
	VIS-1000	VIS-1c - Notification that Treatment Completed	0	0%	01-Apr-20		439	0																											
	VIS-1020	VIS-2c - Landscape Installation Timing	0	0%	23-Apr-20		422	0																											
	VIS-1030	VIS-2d - Landscaping Ready for Inspection	0	0%	01-May-20		415	0																											
	VIS-1100	VIS-4h - Pre-COD Inspection	0	0%	12-Nov-20		259	0																											
	VIS-1080	VIS-4d - Lighting Inspection Ready, Notification	0	0%	12-Nov-20		259	0																											
	Waste		137	0%	24-May-20	12-Nov-20	259	0																											
	WASTE-1020	WASTE-1b - SMP Summary	0	0%	24-May-20		397	0																											
	WASTE-1050	WASTE-8a - Operation Waste Management Plan	0	0%	12-Nov-20		259	0																											
	Worker Safety		193	58.98%	28-Jul-19 A	25-Mar-20	444	0																											
	WRSF-1040	WORKER SAFETY-7c - Fire Protection System Specificati	0	100%	28-Jul-19 A			0																											
	WRSF-1020	WORKER SAFETY-7a - Fire Protection System Specificati	0	100%	28-Jul-19 A			0																											
	WRSF-1060	WORKER SAFETY-8e.1 - Letter to OCFA	0	0%	10-Jan-20		504	0					◆																						
	WRSF-1050	WORKER SAFETY-8e - Letter to OCFA	0	0%	10-Jan-20		504	0					◆																						
	WRSF-1010	WORKER SAFETY-2b - Operations H&S Program	0	0%	13-Jan-20		502	-2					◆																						
	WRSF-1000	WORKER SAFETY-2a - Operations H&S Program	0	0%	13-Jan-20		502	-2					◆																						
	WRSF-1080	WORKER SAFETY-8f.1 - Final UL Certification of ESS	0	0%	25-Mar-20		444	0							◆																				
	WRSF-1070	WORKER SAFETY-8f - Final UL Certification of ESS	0	0%	25-Mar-20		444	0							◆																				
LM6000 Construction Schedule			334	53.72%	09-Nov-18 A	02-Jul-20	253	-19																											
Stanton Energy Reliability Center - 29SEP19			334	53.72%	09-Nov-18 A	02-Jul-20	253	-19																											
Milestones			333	53.61%	09-Nov-18 A	02-Jul-20	-19	-19																											
Contract Milestones			314	83.67%	09-Nov-18 A	30-May-20	0	0																											
00-Milest-110	Contract Negotiations	34	100%	09-Nov-18 A	21-Dec-18 A		0																												
00-Milest-120	Effective Date	1	100%	24-Dec-18 A	24-Dec-18 A		0																												
00-Milest-130	Commencement Date & NTP = 04FEB19	0	100%	04-Feb-19 A			0																												
00-Milest-190	Scheduled Mechanical Completion Date = 01Mar20	0	0%		01-Mar-20*	0	0						◆																						
00-Milest-200	Final Project Completion Date = 26MAR20	0	0%		30-May-20	0	0									◆																			
Project Milestones			300	51.87%	14-Jan-19 A	02-Jul-20	-19	-19																											
00-Milest-300	Kick-off Meeting	1	100%	14-Jan-19 A	14-Jan-19 A		0																												
00-Milest-310	Start of Mobilization	0	100%	04-Feb-19 A			0																												

Remaining Level of Effort

Actual Work

Critical Remaining Work

Actual Level of Effort

Remaining Work

◆ Milestone

Page 5 of 15

TASK filter: Not Level Of Effort.

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SERC Baseline Project Master Schedule (w/ARB Sep Sched) CEC/SCE (F9)				WBS Summary					10-Oct-19 10:14																										
Activity ID	Activity Name	OD	% Comp	Start	Finish	TF	Fin. Var.					2020								2021															
								Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Structural - Major Foundation Milestones	58	100%	06-May-19 A	16-Sep-19 A		0																												
	00-Paymnt-028 Ammonia Sump Pit	0	100%		06-May-19 A		0																												
	00-Paymnt-027 Ammonia Tank Foundation and Sump	0	100%		07-Jun-19 A		0																												
	00-Paymnt-034 CTG2 Foundation Poured	0	100%		25-Jun-19 A		0																												
	00-Paymnt-032 ERU2 Centerline Foundations Formed (including Stack)	0	100%		08-Jul-19 A		0																												
	00-Paymnt-030 CTG2 Foundation Formed	0	100%		08-Jul-19 A		0																												
	00-Paymnt-036 ERU2 Centerline Foundations Poured (including Stack)	0	100%		26-Jul-19 A		0																												
	00-Paymnt-033 CTG1 Foundation Poured	0	100%		26-Jul-19 A		0																												
	00-Paymnt-031 ERU1 Centerline Foundations Formed (including Stack)	0	100%		26-Jul-19 A		0																												
	00-Paymnt-029 CTG1 Foundation Formed	0	100%		26-Jul-19 A		0																												
	00-Paymnt-025 Receipt of all Shop Fab Rebar at Site	0	100%		26-Jul-19 A		0																												
	00-Paymnt-035 ERU1 Centerline Foundations Poured (including Stack)	0	100%		16-Sep-19 A		0	◆																											
	00-Paymnt-026 GSU Foundation Poured	0	100%		16-Sep-19 A		0	◆																											
	Structural - Minor Foundation Milestones	114	55.03%	06-May-19 A	26-Dec-19	87	0																												
	00-Paymnt-038 Demin Water Tank	0	100%		06-May-19 A		0																												
	00-Paymnt-039 RO Skid	0	100%		20-Jun-19 A		0																												
	00-Paymnt-040 Demin Water Skid	0	100%		28-Jun-19 A		0																												
	00-Paymnt-043 480 Volt MCC - Water Treatment	0	100%		02-Jul-19 A		0																												
	00-Paymnt-049 Utility Rack Supports	0	100%		17-Jul-19 A		0																												
	00-Paymnt-046 Utility Bridge Abutments	0	100%		17-Jul-19 A		0																												
	00-Paymnt-045 Spread Footings for Roofless Enclosure U2	0	100%		26-Jul-19 A		0																												
	00-Paymnt-048 PDM Columns	0	100%		05-Sep-19 A		0	◆																											
	00-Paymnt-047 Power Distribution Module (PDM) Building Spread Footings	0	100%		16-Sep-19 A		0	◆																											
	00-Paymnt-044 Spread Footings for Roofless Enclosure U1	0	100%		16-Sep-19 A		0	◆																											
	00-Paymnt-042 Fogging Water Skid U2	0	100%		16-Sep-19 A		0	◆																											
	00-Paymnt-041 Fogging Water Skid U1	0	100%		16-Sep-19 A		0	◆																											
	00-Paymnt-051 Switchyard Substation Module Foundation	0	100%		25-Sep-19 A		0	◆																											
	00-Paymnt-050 Switchyard Support	0	100%		25-Sep-19 A		0	◆																											
	00-Paymnt-052 Fuel Gas Compressor Area Foundations	0	100%		26-Sep-19 A		0	◆																											
	00-Paymnt-055 CTG2 Miscellaneous Foundations	0	0%		11-Oct-19	127	0		◆																										
	00-Paymnt-057 BESS Switchgear Foundation	0	0%		22-Oct-19	122	0		◆																										
	00-Paymnt-053 CTG1 Miscellaneous Foundations	0	0%		25-Nov-19	103	0			◆																									
	00-Paymnt-056 ERU2 Miscellaneous Foundations	0	0%		26-Nov-19	102	0			◆																									
	00-Paymnt-054 ERU1 Miscellaneous Foundations	0	0%		26-Dec-19	87	0				◆																								
	00-Paymnt-037 Receipt of Shop Fab Rebar at Site	0	0%		26-Dec-19	87	0				◆																								
	UG Storm Water System Milestones	178	92.34%	27-Mar-19 A	21-Feb-20	55	2																												
	00-Paymnt-058 Procure Storm Drain Pipe	0	100%		27-Mar-19 A		0																												
	00-Paymnt-061 Install all other Storm Drain Segments	0	0%		29-Jan-20	69	1						◆																						
	00-Paymnt-059 Install Storm Drain Pipe South	0	0%		29-Jan-20	69	1						◆																						
				Page 7 of 15										TASK filter: Not Level Of Effort.																					
Remaining Level of Effort				Actual Work				Critical Remaining Work														© Oracle Corporation													
Actual Level of Effort				Remaining Work				◆				◆ Milestone																							

SERC Baseline Project Master Schedule (w/ARB Sep Sched) CEC/SCE (F9)				WBS Summary					10-Oct-19 10:14																											
Activity ID	Activity Name	OD	% Comp	Start	Finish	TF	Fin. Var.	2020														2021														
								Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	00-Paymnt-062	HydroTest Stormwater Systems	0	0%		30-Jan-20	68	1																												
	00-Paymnt-060	Install Storm Drain Pipe North	0	0%		21-Feb-20	55	2																												
	UG Piping Installation Milestones		138	98.26%	26-Apr-19 A	03-Jan-20	83	0																												
	00-Paymnt-063	Procure Underground Pipe	0	100%		26-Apr-19 A		0																												
	00-Paymnt-065	Install Demin Water pipe	0	100%		17-Jun-19 A		0																												
	00-Paymnt-064	Install Natural Gas pipe	0	0%		30-Dec-19	86	0																												
	00-Paymnt-066	Install Fire Main	0	0%		31-Dec-19	85	0																												
	00-Paymnt-067	HydroTest Underground Piping Systems	0	0%		03-Jan-20	83	0																												
	UG Ground Grid Milestones		95	52.94%	26-Jun-19 A	19-Dec-19	90	0																												
	00-Paymnt-069	Installation of Ground Grid - Switchyard Substation Area	0	100%		26-Jun-19 A		0																												
	00-Paymnt-072	Installation of Ground Grid - Water Farm Area	0	100%		26-Jul-19 A		0																												
	00-Paymnt-071	Installation of Ground Grid - Power Island 2	0	100%		26-Jul-19 A		0																												
	00-Paymnt-068	Procure Ground Grid	0	100%		26-Jul-19 A		0																												
	00-Paymnt-075	Installation of Ground Grid - Remainder	0	0%		30-Sep-19	135	0																												
	00-Paymnt-073	Installation of Ground Grid - BESS 15 kV Switchgear Area	0	0%		20-Nov-19	106	0																												
	00-Paymnt-070	Installation of Ground Grid - Power Island 1	0	0%		22-Nov-19	104	0																												
	00-Paymnt-074	Installation of Ground Grid - Perimeter	0	0%		19-Dec-19	90	0																												
	Unit Substation Milestones		40	62%	30-Aug-19 A	11-Dec-19	95	0																												
	00-Paymnt-080	Switchyard, Substation: Protection Module	0	100%		30-Aug-19 A		0																												
	00-Paymnt-076	Set GSU	0	100%		04-Sep-19 A		0																												
	00-Paymnt-077	GSU Dress Out Complete	0	100%		11-Sep-19 A		0																												
	00-Paymnt-078	GSU Auxiliary Connections Complete	0	0%		12-Nov-19	110	0																												
	00-Paymnt-081	High Voltage Protective Relay Testing Complete	0	0%		11-Dec-19	95	0																												
	00-Paymnt-079	All other 66 kV Apparatus Installed and Conductors Conne	0	0%		11-Dec-19	95	0																												
	CTG1 Components Setting and Installation Milestones		26	28.13%	19-Sep-19 A	13-Nov-19	110	0																												
	00-Paymnt-083	CTG1 - Install Base Plates	0	100%		19-Sep-19 A		0																												
	00-Paymnt-084	CTG1 - Level CTG Frame	0	100%		27-Sep-19 A		0																												
	00-Paymnt-088	CTG1 - Install VBV Ducting	0	0%		10-Oct-19	128	0																												
	00-Paymnt-082	CTG1 - Shake Out CTG Parts	0	0%		10-Oct-19	128	0																												
	00-Paymnt-089	CTG1 - Install Air Filter Housing	0	0%		15-Oct-19	126	0																												
	00-Paymnt-086	CTG1 - Install Air Intake Trans Ducting	0	0%		15-Oct-19	126	0																												
	00-Paymnt-092	CTG1 - Final Wipe Down Air Inlet	0	0%		21-Oct-19	122	0																												
	00-Paymnt-090	CTG1 - Air Housing Internals	0	0%		21-Oct-19	122	0																												
	00-Paymnt-085	CTG1 - Internal Final Alignment Checks	0	0%		22-Oct-19	122	0																												
	00-Paymnt-087	CTG1 - Install Generator Vent Ducting	0	0%		05-Nov-19	114	0																												
	00-Paymnt-093	CTG1 - GE Signoff	0	0%		13-Nov-19	110	0																												
	00-Paymnt-091	CTG1 - Final Check and Grout	0	0%		13-Nov-19	110	0																												
	CTG2 Components Setting and Installation Milestones		18	18.18%	27-Sep-19 A	29-Oct-19	118	0																												
	00-Paymnt-096	CTG2 - Level CTG Frame	0	100%		27-Sep-19 A		0																												
	00-Paymnt-095	CTG2 - Install Base Plates	0	100%		27-Sep-19 A		0																												
<div>Remaining Level of Effort</div> <div>Actual Level of Effort</div>			<div>Actual Work</div> <div>Remaining Work</div>		<div>Critical Remaining Work</div> <div>Milestone</div>		Page 8 of 15														TASK filter: Not Level Of Effort.												© Oracle Corporation			

SERC Baseline Project Master Schedule (w/ARB Sep Sched) CEC/SCE (F9)					WBS Summary					10-Oct-19 10:14																													
Activity ID	Activity Name	OD	% Comp	Start	Finish	TF	Fin. Var.					2020												2021															
								Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
00-Paymnt-094	CTG2 - Shake Out CTG Parts	0	100%		27-Sep-19 A		0																																
00-Paymnt-100	CTG2 - Install VBV Ducting	0	0%		03-Oct-19	132	0																																
00-Paymnt-101	CTG2 - Install Air Filter Housing	0	0%		08-Oct-19	130	0																																
00-Paymnt-098	CTG2 - Install Air Intake Trans Ducting	0	0%		08-Oct-19	130	0																																
00-Paymnt-097	CTG2 - Internal Final Alignment Checks	0	0%		08-Oct-19	130	0																																
00-Paymnt-104	CTG2 - Final Wipe Down Air Inlet	0	0%		14-Oct-19	126	0																																
00-Paymnt-102	CTG2 - Air Housing Internals	0	0%		14-Oct-19	126	0																																
00-Paymnt-099	CTG2 - Install Generator Vent Ducting	0	0%		22-Oct-19	122	0																																
00-Paymnt-105	CTG2 - GE Signoff	0	0%		29-Oct-19	118	0																																
00-Paymnt-103	CTG2 - Final Check and Grout	0	0%		29-Oct-19	118	0																																
ERU1 Components Setting and Installation Milestones		34	0%	27-Dec-19	26-Feb-20	53	1																																
00-Paymnt-107	ERU1 - Insulation and Liner Plates	0	0%		27-Dec-19	86	0																																
00-Paymnt-106	ERU1 - Complete Field Bolt Up and all Sections Set	0	0%		27-Dec-19	86	0																																
00-Paymnt-108	ERU1 - Field Load Catalyst	0	0%		26-Feb-20	53	1																																
ERU2 Components Setting and Installation Milestones		90	8.93%	06-Sep-19 A	25-Feb-20	54	2																																
00-Paymnt-112	Set Fuel Gas Compressor Equipment	0	100%		06-Sep-19 A		0																																
00-Paymnt-113	Set Demin Area Equipment	0	100%		13-Sep-19 A		0																																
00-Paymnt-119	Ammonia Tank	0	100%		16-Sep-19 A		0																																
00-Paymnt-118	Set Ammonia Forwarding Skid	0	100%		16-Sep-19 A		0																																
00-Paymnt-114	Set PDM and Control Modules	0	100%		26-Sep-19 A		0																																
00-Paymnt-115	Set CTG Aux Skids	0	0%		30-Sep-19	135	0																																
00-Paymnt-110	ERU2 - Insulation and Liner Plates	0	0%		20-Nov-19	106	0																																
00-Paymnt-109	ERU2 - Complete Field Bolt Up and all Sections Set	0	0%		20-Nov-19	106	0																																
00-Paymnt-116	Set ERU Aux Skid - Ammonia Vaporization Skids	0	0%		03-Jan-20	83	0																																
00-Paymnt-117	Set CEMS Buildings	0	0%		06-Jan-20	82	0																																
00-Paymnt-111	ERU2 - Field Load Catalyst	0	0%		25-Feb-20	54	2																																
Demin Water Tank Milestones		21	100%	23-Sep-19 A	04-Nov-19	114	0																																
00-Paymnt-120	Demin Water Tank Materials Delivered at Site	0	100%		23-Sep-19 A		0																																
00-Paymnt-121	Demin Water Tank Installation Complete	0	0%		04-Nov-19	114	0																																
AG Piping Installation Milestones		54	2.94%	30-Aug-19 A	27-Jan-20	70	1																																
00-Paymnt-122	Procurement of AG Pipe Materials and Receipt of 100% Ve	0	100%		30-Aug-19 A		0																																
00-Paymnt-126	Rack and Utility Bridge Piping (Demin Water)	0	100%		16-Sep-19 A		0																																
00-Paymnt-124	Demin Water @ CTG1 and CTG2	0	0%		18-Oct-19	123	0																																
00-Paymnt-129	Natural Gas System Piping	0	0%		23-Oct-19	121	0																																
00-Paymnt-123	Lube Oil Piping CTG1 and CTG2	0	0%		24-Oct-19	120	0																																
00-Paymnt-125	Demin Water @ Tank Area	0	0%		25-Oct-19	119	0																																
00-Paymnt-128	Ammonia System Piping	0	0%		07-Jan-20	82	0																																
00-Paymnt-127	CTG Package Drain System	0	0%		27-Jan-20	70	1																																
Electrical Procurement Milestones		59	22.97%	16-Sep-19 A	02-Jan-20	84	0																																
00-Paymnt-134	Fabricated Structural Steel Procurement (Received on Site	0	100%		16-Sep-19 A		0																																
								TASK filter: Not Level Of Effort.																© Oracle Corporation															

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Attachment 2 – COM-5 Compliance Matrix

	A	B	C	D	E	F	G	H	I	J	K	O	P	Q	R	S	T	U
1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)																	
2	All Phases							6/30/2040				Pre-Construction						
3												Commissioning						
4				Revised 4/30/2019		Based on Final Staff Assessment						Operations						
	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date										
5									Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager
18	AQ	AQ-B1	COM/OPS	H₂S Limit Averaging - Concentration limit is an annual average based on monthly samples of natural gas composition or gas supplier documentation. The project owner shall not use natural gas containing the following specified compounds: H₂S > 0.25 Grains per 100 SCF	The project owner shall include documentation demonstrating compliance as part of the Quarterly Operation Reports (AQ-SC7). The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	Quarterly Operation Reports (AQ-SC7).	Quarterly, no later than 30 days after end of the quarter (See AQ-SC7)	Quarterly		Not Started								
19																		
20	AQ	AQ-C1	COM/OPS	Start-up Limitations - Owner shall limit the number of start-ups to no more than 124 in any one calendar month.	Provide records including a table documenting the type of startup, duration and date of occurrence.	Monthly reports to be included in Quarterly Operation Reports.	Quarterly, no later than 30 days after end of the quarter (See AQ-SC7)	Quarterly		Not Started							SERC	DSR
21	AQ	AQ-C1.a	COM/OPS	Start-up Limitations - Owner shall limit the number of start-ups to no more than 124 in any one calendar month.	The project owner shall maintain records to demonstrate compliance with this condition and shall make such records available to the Executive Officer upon request.	The records shall be maintained for a minimum of 5 years in a manner approved by SCAQMD.	N/A	N/A		Not Started							SERC	DSR
22	AQ	AQ-C2	COM/OPS	Shutdown Limitations - Owner shall limit the number of shutdowns to no more than 124 in any one calendar month.	Provide records including a table documenting the duration and date of occurrence.	Monthly reports to be included in Quarterly Operation Reports. (AQ-SC7)	Quarterly, no later than 30 days after end of the quarter (See AQ-SC7)	Quarterly		Not Started							SERC	DSR
23	AQ	AQ-C2.a	COM/OPS	Shutdown Limitations - Owner shall limit the number of shutdowns to no more than 124 in any one calendar month.	The project owner shall maintain records in a manner approved by the District to demonstrate compliance with this condition and the records shall be made available to District personnel upon request.	The records shall be maintained for a minimum of 5 years in a manner approved by SCAQMD.	N/A	N/A		Not Started							SERC	DSR
24	AQ	AQ-C3	COM/OPS	Pressure Relief Valve Requirements - The project owner shall install and maintain a pressure relief valve set at 2.3 psig.	The project owner shall demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC7).	The project owner shall demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC7).	Quarterly, no later than 30 days after end of the quarter (See AQ-SC7)	Quarterly		Not Started							SERC	DSR
25	AQ	AQ-D1	COM/OPS	Initial Source Test - Owner must conduct initial commissioning air pollutant source tests. See Decision for methods, averaging times, and test location. District must approve test protocol in advance. Notify District prior to test of date and time of test. See Decision for further test specifications.	The test shall be conducted after District approval of the source test protocol, but no later than 180 days after initial start-up.	N/A	N/A	N/A									SERC	DSR
26	AQ	AQ-D1a	COM/OPS	Initial Source Test - Owner must conduct initial commissioning air pollutant source tests. See Decision for methods, averaging times, and test location. District must approve test protocol in advance. Notify District prior to test of date and time of test. See Decision for further test specifications.	Submit test protocol to CPM for approval.	Proposed source test protocol.	Submit protocol 90 days before test date to CPM.	9/30/2020		Not Started							SERC	DSR
27	AQ	AQ-D1b	COM/OPS	Initial Source Test - Owner must conduct initial commissioning air pollutant source tests. See Decision for methods, averaging times, and test location. District must approve test protocol in advance. Notify District prior to test of date and time of test. See Decision for further test specifications.	Submit test protocol to District for approval.	Proposed source test protocol.	Submit protocol 90 days before test date to Air District.	9/30/2020		Not Started				SCAQMD			SERC	DSR
28	AQ	AQ-D1c	COM/OPS	Initial Source Test - Owner must conduct initial commissioning air pollutant source tests. See Decision for methods, averaging times, and test location. District must approve test protocol in advance. Notify District prior to test of date and time of test. See Decision for further test specifications.	Submit test protocol to CPM for approval.	Proposed source test protocol.	Notify CPM of proposed date and time 10 days prior to test date.	10/28/2019 2/5/2020		Not Started							SERC	DSR
29	AQ	AQ-D1d	COM/OPS	Initial Source Test - Owner must conduct initial commissioning air pollutant source tests. See Decision for methods, averaging times, and test location. District must approve test protocol in advance. Notify District prior to test of date and time of test. See Decision for further test specifications.	Submit test protocol to District for approval.	Proposed source test protocol.	Notify Air District of proposed date and time 10 days prior to test date.	10/28/2019 2/5/2021		Not Started				SCAQMD			SERC	DSR

	A	B	C	D	E	F	G	H	I	J	K	O	P	Q	R	S	T	U
1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)											Pre-Construction						
2	All Phases							6/30/2040				Construction						
3												Commissioning						
4												Operations						
5																		
	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party SERC	SERC Project Manager DSR
30	AQ	AQ-D2	COM/OPS	Operations Source Test - Owner must conduct air pollutant source tests for SO _x , VOC, and PM ₁₀ once every three years. See Decision for methods, averaging times, and test location. Notify District prior to test of date and time of test. See Decision for further test specifications.	The test(s) shall be conducted at least once every three years. The project owner shall test according to the original protocol. If changes to the testing methods or testing conditions are proposed, then the project owner shall submit a revised protocol for the source tests no later than 45 days prior to the proposed source test date to both the District and CPM for approval.	N/A	N/A	#VALUE!		Not Started								
31	AQ	AQ-D2a	COM/OPS	Operations Source Test - Owner must conduct air pollutant source tests for SO _x , VOC, and PM ₁₀ once every three years. See Decision for methods, averaging times, and test location. Notify District prior to test of date and time of test. See Decision for further test specifications.	The project owner shall test according to the original protocol. If changes to the testing methods or testing conditions are proposed, then the project owner shall submit a revised protocol for the source tests no later than 45 days prior to the proposed source test date to both the District and CPM for approval.	Revised source test protocol (if proposed), test result report	Submit protocol 45 days before test date to Notify CPM	3/19/2020		Not Started							SERC	DSR
32	AQ	AQ-D2b	COM/OPS	Operations Source Test - Owner must conduct air pollutant source tests for SO _x , VOC, and PM ₁₀ once every three years. See Decision for methods, averaging times, and test location. Notify District prior to test of date and time of test. See Decision for further test specifications.	The project owner shall test according to the original protocol. If changes to the testing methods or testing conditions are proposed, then the project owner shall submit a revised protocol for the source tests no later than 45 days prior to the proposed source test date to both the District and CPM for approval.	Revised source test protocol (if proposed), test result report	Submit protocol 45 days before test date to Notify District	2/18/2021		Not Started				SCAQMD			SERC	DSR
33	AQ	AQ-D2c	COM/OPS	Operations Source Test - Owner must conduct air pollutant source tests for SO _x , VOC, and PM ₁₀ once every three years. See Decision for methods, averaging times, and test location. Notify District prior to test of date and time of test. See Decision for further test specifications.	Revised test protocol (if changes to the previously approved protocol are proposed) to District and CPM. Source test results to District and CPM	Revised source test protocol (if proposed), test result report	Submit results 60 days after the test. Notify CPM	7/2/2020		Not Started							SERC	DSR
34	AQ	AQ-D2d	COM/OPS	Operations Source Test - Owner must conduct air pollutant source tests for SO _x , VOC, and PM ₁₀ once every three years. See Decision for methods, averaging times, and test location. Notify District prior to test of date and time of test. See Decision for further test specifications.	Revised test protocol (if changes to the previously approved protocol are proposed) to District and CPM. Source test results to District and CPM	Revised source test protocol (if proposed), test result report	Submit results 60 days after the test. Notify District	6/3/2021		Not Started				SCAQMD				
35	AQ	AQ-D2e	COM/OPS	Operations Source Test - Owner must conduct air pollutant source tests for SO _x , VOC, and PM ₁₀ once every three years. See Decision for methods, averaging times, and test location. Notify District prior to test of date and time of test. See Decision for further test specifications.	The project owner shall notify the District and CPM no later than 10 days prior to the proposed initial source test of the date and time of the scheduled test.	The project owner shall notify the District and CPM no later than 10 days prior to the proposed initial source test of the date and time of the scheduled test.	Notify CPM 10 days before the test of date and time. Test every three years.	5/3/2020		Not Started							SERC	DSR
36	AQ	AQ-D2f	COM/OPS	Operations Source Test - Owner must conduct air pollutant source tests for SO _x , VOC, and PM ₁₀ once every three years. See Decision for methods, averaging times, and test location. Notify District prior to test of date and time of test. See Decision for further test specifications.	The project owner shall notify the District and CPM no later than 10 days prior to the proposed initial source test of the date and time of the scheduled test.	The project owner shall notify the District and CPM no later than 10 days prior to the proposed initial source test of the date and time of the scheduled test.	Notify District 10 days before the test of date and time. Test every three years.	5/3/2020		Not Started				SCAQMD			SERC	DSR
37	AQ	AQ-D3a	COM/OPS	NH₃ Source Test - Owner must conduct air pollutant source tests for NH ₃ quarterly during first 12 months of operation and annually after that. See Decision for methods, averaging times, and test location. Notify District prior to test of date and time of test. See Decision for further test specifications.	The project owner shall test according to the original protocol. If changes to the testing methods or testing conditions are proposed, then the project owner shall submit a revised protocol for the source tests no later than 45 days prior to the proposed source test.	Revised source test protocol (if proposed), test result report	Submit protocol 45 days before test date to CPM	4/4/2021		Not Started							SERC	DSR
38	AQ	AQ-D3b	COM/OPS	NH₃ Source Test - Owner must conduct air pollutant source tests for NH ₃ quarterly during first 12 months of operation and annually after that. See Decision for methods, averaging times, and test location. Notify District prior to test of date and time of test. See Decision for further test specifications.	The project owner shall test according to the original protocol. If changes to the testing methods or testing conditions are proposed, then the project owner shall submit a revised protocol for the source tests no later than 45 days prior to the proposed source test.	Revised source test protocol (if proposed), test result report	Submit protocol 45 days before test date to District	4/4/2021		Not Started				SCAQMD			SERC	DSR

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	A	B	C	D	E	F	G	H	I	J	K	O	P	Q	R	S	T	U
1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)											Pre-Construction						
2	All Phases							6/30/2040				Construction						
3												Commissioning						
4				Revised 4/30/2019		Based on Final Staff Assessment						Operations						
5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party SERC	SERC Project Manager DSR
57	AQ	AQ-D8b	COM/OPS	SCR Pressure Gauge - Install a gauge to measure differential pressure across the SCR catalyst bed in inches water column. Pressure should be recorded at least once per month and calculated based on the average of the continuous monitoring for that month. The gauge should be accurate to +/- 5 percent and calibrated once per 12 months. Maintain pressure differential not to exceed between 6.0 inches water column.	The project owner shall demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC7). The project owner shall make the site available for inspection of records by representatives of the District, ARB, and the Energy Commission.	The project owner shall demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC7), including table of shutdowns	Quarterly, no less than 30 days after end of the quarter (See AQ-SC7)	Quarterly		Not Started								
58	AQ	AQ-D8c	COM/OPS	SCR Pressure Gauge - Install a gauge to measure differential pressure across the SCR catalyst bed in inches water column. Pressure should be recorded at least once per month and calculated based on the average of the continuous monitoring for that month. The gauge should be accurate to +/- 5 percent and calibrated once per 12 months. Maintain pressure differential not to exceed between 6.0 inches water column.	Calibrate DP pressure gauge. The project owner shall demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC7).	N/A	Once every 12 months	Annually		Not Started							SERC	DSR
59	AQ	AQ-E1	CONS	The project owner shall upon completion of construction, operate and maintain this equipment according to the following requirements: In accordance with all air quality mitigation measures stipulated in the final California Energy Commission decision for the 16-AFC-01 project. [CA PRC CEQA, 5-12-2017] [Devices subject to this condition: D1, C3, C4, D7, C9, C10, D13]	The project owner shall make the site available for inspection by representatives of the District, ARB, U.S. EPA and the Energy Commission.	N/A	N/A	Conditional		Not Started							SERC	DSR
60	AQ	AQ-E2	CONS	Permit to Construct - The Permit to Construct shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the District Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate.	Owner to make site available for inspection of records by District, ARB, US EPA, and the Commission.	N/A	NA	Conditional		Not Started							SERC	TLB
61	AQ	AQ-E2a	CONS	Permit to Construct - The Permit to Construct shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the District Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate.	Request an extension of the Permit to Construct	Permit to Construct extension	Prior to expiration of Permit to Construct	Conditional		Not Started				SCAQMD			SERC	TLB
62	AQ	AQ-E3	COM/OPS	Commissioning Hours - Total commissioning hours shall not exceed 100 hours of fired operation for each turbine from the date of initial turbine startup. Commissioning hours without control shall not exceed 38 of the 100 commissioning hours. Two turbines may be commissioned at the same time. Turbines shall be vented to the CO Oxidation catalyst and SCR control system during any turbine operation after commissioning is completed.	The project owner shall submit all records including the total number of commissioning hours, number of commissioning hours without control, natural gas fuel usage for the pre-catalyst phase, and natural gas fuel usage for the post-catalyst phase per turbine to demonstrate compliance with this condition as part of the Quarterly Operational Report required in AQ-SC7.	The project owner shall demonstrate compliance with this condition as part of the Quarterly Operation Reports (AQ-SC7).	Quarterly, no later than 30 days after end of the quarter (See AQ-SC7)	Quarterly		Not Started							SERC	DSR
63	AQ	AQ-E3a	COM/OPS	Commissioning Hours - Total commissioning hours shall not exceed 100 hours of fired operation for each turbine from the date of initial turbine startup. Commissioning hours without control shall not exceed 38 of the 100 commissioning hours. Two turbines may be commissioned at the same time. Turbines shall be vented to the CO Oxidation catalyst and SCR control system during any turbine operation after commissioning is completed.	The project owner shall provide the SCAQMD with written notification of the initial startup date of each turbine.	The SCAQMD shall be notified in writing of the initial startup date of each turbine.	After first fire of each unit.	N/A		Not Started				SCAQMD			SERC	DSR

	A	B	C	D	E	F	G	H	I	J	K	O	P	Q	R	S	T	U
1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)																	
2	All Phases											Pre-Construction						
3												Construction						
4												Commissioning						
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1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)																				
2	All Phases							6/30/2040							Pre-Construction						
3															Commissioning						
4				Revised 4/30/2019		Based on Final Staff Assessment									Operations						
5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal Is Required	Due Date		Compliance Status for CPM (Not started, in progress, completed (with date))		Date Submitted to CPM	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager	
86	BIO	BIO-1b	PC/CONS	Designated Biologist Selection - The project owner shall assign at least one Designated Biologist to the project. The project owner shall submit the resume of the proposed Designated Biologist, with at least three references and contact information, to the Energy Commission compliance project manager (CPM) for approval.. The Designated Biologist must meet the minimum qualifications (1) through (3) in this condition (BIO-1). See Decision for qualifications.	If a Designated Biologist is replaced, the specified information for the proposed replacement must be submitted to the CPM at least ten working days prior to the termination or release of the preceding Designated Biologist.	DB Resume	Notify CPM 10 working days in advance of replacing DB.	Conditional		Not Started									JACOBS	GAL	
87	BIO	BIO-2a	CONS	Designated Biologist Duties - The project owner shall ensure that the Designated Biologist performs the following during any site (or related facilities) mobilization, ground disturbance, grading, construction, operation, closure, or restoration activities. The Designated Biologist may be assisted by the approved Biological Monitor(s) but remains the contact for the project owner and CPM. The Designated Biologist duties shall include the following: (See Decision for Items 1-10)	Submit in the monthly compliance report to the CPM copies of all written reports and summaries that document construction activities that have the potential to affect biological resources.	Reports and summaries in the MCR and Annual Compliance Report.	Monthly/Annually	Monthly		In Progress									SERC	GAL	
88	BIO	BIO-2b	OPS	Designated Biologist Duties - The project owner shall ensure that the Designated Biologist performs the following during any site (or related facilities) mobilization, ground disturbance, grading, construction, operation, closure, or restoration activities. The Designated Biologist may be assisted by the approved Biological Monitor(s) but remains the contact for the project owner and CPM. The Designated Biologist duties shall include the following: (See Decision for Items 1-10)	Submit in the monthly compliance report to the CPM copies of all written reports and summaries that document construction activities that have the potential to affect biological resources.	MCR's and ACR's	Monthly/Annually	Monthly		In Progress									SERC	GAL	
89	BIO	BIO-3a	PC	Biological Monitor Selection - The project owner's Designated Biologist shall submit the resumes, at least 3 references and contact information, of the proposed Biological Monitors to the CPM for approval.	Submit the specified information to the CPM for approval no less than 30 days prior to the start of any pre-construction site mobilization. The Designated Biologist shall submit a written statement to the CPM confirming that the individual Biological Monitor(s) have been trained including the date when training was completed.	BM's Quals	At least 30 days prior to the start of pre-construction site mobilization.	1/5/2019	11/1/2018	Completed		11/14/2018							JACOBS	GAL	
90	BIO	BIO-3b	CONS/COM/OPS	Biological Monitor Selection - The project owner's Designated Biologist shall submit the resumes, at least 3 references and contact information, of the proposed Biological Monitors to the CPM for approval.	Submit the specified information to the CPM for approval no less than 30 days prior to the start of any pre-construction site mobilization. The Designated Biologist shall submit a written statement to the CPM confirming that the individual Biological Monitor(s) have been trained including the date when training was completed.	If Additional BMs are needed during construction	Approval from CPM at least 10 days prior to their first day of monitoring activities.	Conditional	4/9/2019	In Progress		4/18/2019							JACOBS	GAL	
91	BIO	BIO-4a	CONS/COM/OPS	Designated Biologist and Biological Monitor Authority - The project owner's construction/operation manager shall act on the advice of the Designated Biologist and Biological Monitor(s) to ensure conformance with the biological resources conditions of certification. If required by the Designated Biologist and/or Biological Monitor(s) the project owner's construction/operation manager shall halt all site mobilization, ground disturbance, grading, construction, and operation activities in areas specified by the Designated Biologist. The Designated Biologist shall (paraphrase)have the authority to stop construction and notify the CPM of the work stoppage.	Ensure that the DB or BM notify the CPM of any non-compliance or halt of construction.	BM Notify CPM	Morning following the incident (or Monday morning if a weekend)	Conditional		Not Started									JACOBS	GAL	

	A	B	C	D	E	F	G	H	I	J	K	O	P	Q	R	S	T	U
1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)											Pre-Construction						
2	All Phases							6/30/2040				Construction						
3												Commissioning						
4	Revised 4/30/2019					Based on Final Staff Assessment						Operations						
5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager
108	BIO	BIO-8c	CONS	Implementation of Nest Surveys and Inclusion in BRMIMP - (See Decision BIO-8a for specific guideline items)	All impact avoidance and minimization measures related to nesting birds shall be included in the BRMIMP and implemented.	Revised BRMIMP (BIO-6)	After pre-construction nesting surveys	Ongoing For Gas Line 9/5/19	N/A	Not Started	N/A						JACOBS	GAL
109	BIO	BIO-8d	CONS	Monthly Reporting for Preconstruction Nest Surveys - (See Decision BIO-8 for 8 specific guideline items)	Implementation of the measures shall be reported in the MCRs by the Designated Biologist.	MCR	Monthly	Monthly		In Progress							JACOBS	GAL
110	BIO	BIO-9a	CONS	Jack and Bore Drilling Best Management Practices - During construction using jack and bore drilling techniques the Designated Biologist or Biological Monitor must be present at all times. The Designated Biologist or Biological Monitor must be allowed to monitor all activities pertaining to drilling under Carbon Creek Channel and the Anaheim-Barber Channel, and shall be given authority to do the following, including but not limited to: (See Decision for 6 items)	Notify the CPM and CDFW in the event of a frac-out, non-compliance, or halt of jack-and-bore operations.	Notification of a frac-out to CPM and CDFW	No later than the following morning of the incident or Monday morning in case of a weekend	Conditional		Not Started							SERC	GAL
111	BIO	BIO-9b	CONS	Jack and Bore Drilling Best Management Practices - During construction using jack and bore drilling techniques the Designated Biologist or Biological Monitor must be present at all times. The Designated Biologist or Biological Monitor must be allowed to monitor all activities pertaining to drilling under Carbon Creek Channel and the Anaheim-Barber Channel, and shall be given authority to do the following, including but not limited to: (See Decision for 6 items)	Notify the CPM and CDFW in the event of a frac-out, non-compliance, or halt of jack-and-bore operations.	Notification of any non compliance or a halt of any jack and bore drilling operations to CPM and CDFW and actions being taken to resolve the problem	No later than the following morning of the incident or Monday morning in case of a weekend	Conditional		Not Started							SERC	GAL
112	CIVIL	CIVIL-1a	PC/CONS	Drainage Structure Design and Grading Plan - Submit to the CBO for review and approval the design of the proposed drainage structures and the grading plan; an erosion and sedimentation control plan; a construction storm water pollution prevention plan; related calculations and specifications, signed and stamped by the responsible civil engineer; and soils, geotechnical, or foundation investigations reports required by the 2016 CBC.	At least 15 days (or project owner- and CBO-approved alternative time frame) prior to the start of site grading, submit the documents described in this condition to the CBO for design review and approval.	Proposed drainage structures and grading plan	At least 15 days prior to the start of site grading					1-1.1: 1/17/2019 PC1 1-1.1: 2/6/19 PC2 1-1.1: 5/24/19 PC3 1-1.2 1/17/2019 PC1 1-1.2 2/6/19 PC2 1-1.2 5/24/19 PC3 1-1.3 1/17/2019 PC1 1-1.3 2/6/19 PC2	1.1: 2/8/19 (conditional) 1.2: 2/8/19 1-1.0 2/8/19 PC2 1-1.0 5/14/19 PC3 1-1.0 2/8/19 PC2 1-1.2 6/14/19 PC3 1-1.3 2/8/19 PC2 1-1.3 6/14/19 PC3 1.4 2/8/19 PC2 1-1.4 6/14/19 PC3				SERC	TAT
113	CIVIL	CIVIL-1b	PC	Erosion and Sedimentation Control Plan - See CIVIL-1a	At least 15 days (or project owner- and CBO-approved alternative time frame) prior to the start of site grading, submit the documents described in this condition to the CBO for design review and approval.	Erosion and Sedimentation Control Plan	At least 15 days prior to the start of site grading	12/18/2018		Completed							SERC	TAT
114	CIVIL	CIVIL-1c	PC	Construction Stormwater Pollution Prevention Plan - See CIVIL-1a	At least 15 days (or project owner- and CBO-approved alternative time frame) prior to the start of site grading, submit the documents described in this condition to the CBO for design review and approval.	Construction Stormwater Pollution Prevention Plan	At least 15 days prior to the start of site grading	12/18/2018		Completed							SERC	TAT
115	CIVIL	CIVIL-1d	PC	Related Calculations and Specs Stamped by Civil Engineer - See CIVIL-1a	At least 15 days (or project owner- and CBO-approved alternative time frame) prior to the start of site grading, submit the documents described in this condition to the CBO for design review and approval.	Related Calculations and Specs Signed and Stamped by Responsible Civil Engineer	At least 15 days prior to the start of site grading; and notify CPM in MCR following the CBO's approval	12/18/2018		Completed							SERC	TAT
116	CIVIL	CIVIL-1e	PC	Soils, Geotechnical, or Foundation Reports - See CIVIL-1a	At least 15 days (or project owner- and CBO-approved alternative time frame) prior to the start of site grading, submit the documents described in this condition to the CBO for design review and approval.	Soil, Geotechnical, or Foundation Investigation Reports required by the 2016 CBC	At least 15 days prior to the start of site grading	12/18/2018		Completed							SERC	TAT
117	CIVIL	CIVIL-1f	PC	Approval of all CIVIL 1a Submittals Noted in MCR - See CIVIL-1a	Statement in the MCR certifying that the documents (CIVIL-1a) have been approved by the CBO.	MCR	Next MCR after approval by CBO	3/13/2019		Completed			3/13/19 4/11/19				SERC	GAL
118	CIVIL	CIVIL-2a	CONS	Adverse Soil/Geologic Conditions - The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible soils engineer, geotechnical engineer, or the civil engineer experienced and knowledgeable in the practice of soils engineering, identifies unforeseen adverse soil or geologic conditions. The project owner shall submit modified plans, specifications, and calculations to the CBO based on these new conditions. The project ownershall obtain approval from the CBO before resuming earthwork and construction in the affected area.	The project owner shall submit modified plans, specifications, and calculations to the CBO based on these new conditions.	Submit modified plans, specifications, and calculations to CBO	when unforeseen adverse soil or geologic conditions are identified by RE	Conditional				Conditional					SERC	GAL

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	
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3															Construction							
4				Revised 4/30/2019		Based on Final Staff Assessment									Commissioning							
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5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager				
147	CUL	CUL-1a	PC	Cultural Resources Specialist, Monitors, and Technical Specialist - The project owner shall assign a Cultural Resources Specialist (CRS) and at least one Alternate CRS to the project. The project owner shall submit the resumes of the proposed CRS and Alternative CRS(s), with at least three references and contact information, to the Energy Commission Compliance Project Manager (CPM) for review and approval. (See Decision for CRS	At least 75 days prior to the start of ground disturbance, site preparation, or post-certification cultural resources activities.	CRS & Alternates Resume	At least 75 days prior to the start of ground disturbance, site preparation, or post-certification cultural resources activities.	10/19/2018	9/27/2018 3/6/2019 8/12/19	Completed	10/18/2018 3/11/2019 8/12/19						JACOBS	GAL				
148	CUL	CUL-1a	PC	Cultural Resources Specialist, Monitors, and Technical Specialist - The project owner shall assign a Cultural Resources Specialist (CRS) and at least one Alternate CRS to the project. The project owner shall submit the resumes of the proposed CRS and Alternative CRS(s), with at least three references and contact information, to the Energy Commission Compliance Project Manager (CPM) for review and approval. (See Decision for CRS	At least 75 days prior to the start of ground disturbance, site preparation, or post-certification cultural resources activities.	CRS & Alternates Resume	At least 75 days prior to the start of ground disturbance, site preparation, or post-certification cultural resources activities.	10/19/2018	9/27/2018 3/6/2019 6/14/19 7/12/19 8/12/19	Completed	10/18/2018 3/11/2019 8/12/19						JACOBS	GAL				
149	CUL	CUL-1b	CONS	Replacement CRS - See CUL-1a (CUL-1 Section D.2)	The project owner may replace a CRS. In an emergency, the project owner shall immediately notify the CPM to discuss the qualifications and approval of a short-term replacement while a permanent CRS is proposed to the CPM for consideration.	Resume, references, and contact information of CRS	At least 10 days working days before termination or release of the CRS	Conditional		Not Started							JACOBS	GAL				
150	CUL	CUL-1b	CONS	Replacement CRS - See CUL-1a (CUL-1 Section D.2)	The project owner may replace a CRS. In an emergency, the project owner shall immediately notify the CPM to discuss the qualifications and approval of a short-term replacement while a permanent CRS is proposed to the CPM for consideration.	Resume, references, and contact information of CRS	At least 10 days working days before termination or release of the CRS	Conditional		Not Started							JACOBS	GAL				
151	CUL	CUL-1c	PC	Cultural Resources Monitors and Specialists - See Cul-1a (CUL-1 Section D.3)	The CRS shall provide proof of qualifications for any anticipated CRMs, NAMs, and additional specialists for the project to the CPM.	Qualifications of CRMs and additional specialists	At least 20 days prior to ground disturbance	12/13/2018	11/16/2018 6/20/2019	In Progress	12/3/2018 7/18/2019						JACOBS	GAL				
152	CUL	CUL-1c	PC	Cultural Resources Monitors and Specialists - See Cul-1a (CUL-1 Section D.3)	The CRS shall provide proof of qualifications for any anticipated CRMs, NAMs, and additional specialists for the project to the CPM.	Qualifications of CRMs and additional specialists	At least 20 days prior to ground disturbance	12/13/2018	11/16/2018 12/7/18 2/24/19 6/20/2019 7/12/19 8/26/19	Completed	12/3/2018 4/29/19 7/18/2019						JACOBS	GAL				
153	CUL	CUL-1d	PC	Native American Monitors - See Cul-1a (CUL-1 Section D.4)	If efforts to obtain the services of a qualified NAM are unsuccessful, the project owner shall inform the CPM.	Communication with CPM documenting efforts to obtain services of a qualified NAM	At least 30 days prior to the beginning of post-certification cultural resources field work or construction-related ground disturbance	12/3/2018	11/16/2018	Completed	12/3/2018						JACOBS	GAL				
154	CUL	CUL-1d	PC	Native American Monitors - See Cul-1a (CUL-1 Section D.4)	If efforts to obtain the services of a qualified NAM are unsuccessful, the project owner shall inform the CPM.	Communication with CPM documenting efforts to obtain services of a qualified NAM	At least 30 days prior to the beginning of post-certification cultural resources field work or construction-related ground disturbance	12/3/2018	11/16/2018	Completed	12/3/2018						JACOBS	GAL				
155	CUL	CUL-1e	PC/CONS	Additional Cultural Resources and Native American monitors - See Cul-1a (CUL-1 Section D.5)	The owner may submit qualifications for additional CRMs or NAMs as needed.	Submit qualifications to the CPM for review and approval	At least 5 days prior to the CRMs or NAMs beginning on-site duties	Conditional		In Progress							JACOBS	GAL				
156	CUL	CUL-1f	PC/CONS	Additional Cultural Resources Specialists - See Cul-1a (CUL-1 Section D.5)	The owner may submit qualifications for cultural resources specialists.	Submit qualifications to the CPM for review and approval	At least 5 days prior to the specialists beginning on-site duties	Conditional	3/6/2019 4/26/2019 8/12/2019	In Progress	3/11/2019 4/29/2019 8/22/2019						JACOBS	GAL				

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	
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5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager				
157		CUL	CUL-1g	PC	New technical specialist - See Cul-1a - (CUL-1 Section D.6)	Owner must submit resume(s) of any technical specialist to CPM for review and approval	Submit resume(s) to CPM	At least 10 days prior to technical specialist beginning task	Conditional													
158		CUL	CUL-1h	PC	Availability of CRS - See Cul-1a - (CUL-1 Section D.7)	Owner must confirm in writing that the approved CRS will be available for onsite work and will implement the cultural resources conditions.	Submit letter confirming the availability of the CRS.	At least 10 days before the start of construction related ground disturbance	12/23/2018	1/8/2019	Completed	1/8/2019					JACOBS	GAL				
159		CUL	CUL-1i	PC	CPM Approval of CRS and Alternatives - See Cul-1a - (CUL-1 Section D.8)	No ground disturbance shall occur prior to CPM approval of CRS and alternatives unless such activities are approved by the CPM	Receive approval letter from CPM	No ground disturbance shall occur without approval	Conditional								JACOBS	GAL				
160		CUL	CUL-1j	CONS	Discharge the CRS, after receiving approval from the CPM. - See Cul-1a - (CUL-1 Section A.1.2)	After all ground disturbances are completed and the CRS has fulfilled all responsibilities specified in these cultural resources conditions, the project owner may discharge the CRS, after receiving approval from the CPM.	Submit to request to the CPM to discharge the CRS	After all ground disturbances are completed and the CRS has fulfilled all responsibilities specified in these cultural resources conditions	5/1/2020	Not Started							JACOBS	GAL				
161		CUL	CUL-2a	PC	Construction Maps and Drawings - Prior to the start of construction-related ground disturbance, the start of each phase, and weekly, provide the CRS with the materials described in this condition (See Decision CUL-2). No construction-related ground disturbance shall occur prior to CPM approval of maps and drawings, unless such activities are specifically approved by the CPM.	At least 40 days prior to the start of construction-related ground disturbance, provide the AFC, data responses, confidential cultural resources documents, and the Energy Commission FSA to the CRS, if needed, and the subject maps and drawings to the CRS and CPM. The CPM will review submittals in consultation with the CRS and approve maps and drawings suitable for cultural resources planning activities.	Documents, maps and drawings	At least 40 days prior to the start of construction-related ground disturbance	11/23/2018	11/19/2018	Completed	12/3/2018					JACOBS	GAL				
162		CUL	CUL-2b	PC/CONS	Revised Maps and Drawings - Prior to the start of construction-related ground disturbance, the start of each phase, and weekly, provide the CRS with the materials described in this condition (CUL-2). No construction-related ground disturbance shall occur prior to CPM approval of maps and drawings, unless such activities are specifically approved by the CPM.	At least 15 days prior to the start of construction-related ground disturbance, if there are changes to any construction-related footprint, provide revised maps and drawings for the changes to the CRS and CPM.	Updated maps and drawings	At least 15 days prior to start of construction-related ground disturbance	Conditional	In Progress							JACOBS	GAL				
163		CUL	CUL-2c	CONS	Construction Phasing - Prior to the start of construction-related ground disturbance, the start of each phase, and weekly, provide the CRS with the materials described in this condition (See Decision CUL-2). No construction-related ground disturbance shall occur prior to CPM approval of maps and drawings, unless such activities are specifically approved by the CPM.	At least 15 days prior to the start of each phase of a phased project, the project owner shall submit the appropriate maps and drawings, if not previously provided, to the CRS and CPM.	Maps and drawings	At least 15 days prior to the start of a construction phase	Conditional	In Progress							JACOBS	GAL				
164		CUL	CUL-2d	CONS	Construction Schedule - Prior to the start of construction-related ground disturbance, the start of each phase, and weekly, provide the CRS with the materials described in this condition (See Decision CUL-2). No construction-related ground disturbance shall occur prior to CPM approval of maps and drawings, unless such activities are specifically approved by the CPM.	Provide a schedule of the next week's project activity to the CRS and CPM	Schedule of next week's activities by e-mail, letter, or fax	Weekly during ground disturbance	Weekly	In Progress							ARB	GAL				

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	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date		Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party ARB	SERC Project Manager GAL			
5		CUL	CUL-2e	CONS	Revised Construction Schedule - Prior to the start of construction-related ground disturbance, the start of each phase, and weekly, provide the CRS with the materials described in this condition (See Decision CUL-2). No construction-related ground disturbance shall occur prior to CPM approval of maps and drawings, unless such activities are specifically approved by the CPM.	Within 5 days of changing the schedule of phases of a phased project, provide written notice of project changes to the CRS and CPM.	Description of changes in phased project	Within 5 days of changing the scheduling of phases	Conditional												
165		CUL	CUL-2f	CONS	Replacement CRS - Prior to the start of construction-related ground disturbance, the start of each phase, and weekly, provide the CRS with the materials described in this condition (See Decision CUL-2). No construction-related ground disturbance shall occur prior to CPM approval of maps and drawings, unless such activities are specifically approved by the CPM.	If a new CRS is appointed, provide maps and drawings (see CUL-2) to the new CRS.	Documents, maps and drawings	Within 10 days of the approval of the new CRS	Conditional									JACOBS	GAL		
166		CUL	CUL-3a	PC	Cultural Resources Monitoring and Mitigation Plan (CRMMP) - Submit the Cultural Resources Monitoring and Mitigation Plan (CRMMP), as prepared by or under the direction of the CRS and as described in this condition (See Decision CUL-3), to the CPM for review and approval. Implementation of the CRMMP shall be the responsibility of the CRS and the project owner. No ground disturbance shall occur prior to CPM approval of the CRMMP, unless such activities are specifically approved by the CPM.	Upon approval of the CRS proposed by the project owner, the CPM will provide to the project owner an electronic copy of the draft model CRMMP for the CRS. At least 30 days prior to the start of ground disturbance, submit the CRMMP to the CPM for review and approval.	Draft CRMMP	At least 30 days prior to the start of ground disturbance	12/3/2018	11/1/2018	Completed	12/3/2018					JACOBS	GAL			
167		CUL	CUL-3b	PC	Agreement to Pay Curation Fees - See CUL-3a	At least 30 days prior to the start of ground disturbance, in a letter to the CPM, agree to pay curation fees for any materials generated or collected as a result of the archaeological investigations (survey, testing, data recovery).	Letter confirming agreement to pay curation fees	At least 30 days prior to the start of ground disturbance	12/3/2018	11/26/2018	Completed	12/18/2018						JACOBS	GAL		
168		CUL	CUL-3c	CONS/COM/OPS	Written Agreement with Curation Facility - If cultural materials requiring curation were generated or collected, the project owner shall provide to the CPM a copy of an agreement with, or other written commitment from, a curation facility that meets the standards stated in the State Historic Resources Commission's (SHRC) Guidelines for the Curation of Archaeological Collections (1993), or future updated guidelines from SHRC, to accept the cultural materials from this project. Any agreements concerning curation will be retained and available for audit for the life of the project.	Provide a copy of a written agreement with a qualified curation facility.	Written agreement with curation facility	90 days after completion of ground disturbance (including landscaping)	4/1/2020		Not Started						JACOBS	GAL			
169		CUL	CUL-4a	CONS/COM/OPS	Final Cultural Resources Report - The project owner shall submit the final CRR to the CPM for approval. The final CRR shall be written by, or under the direction of, the CRS and shall be provided in the Archaeological Resource Management Report (ARMR) format. The final CRR shall report on all field activities including dates, times and locations, results, samplings, and analyses. All survey reports, DPR 523 forms, data recovery reports, and any additional research reports not previously submitted to the California Historical Resources Information System (CHRIS) shall be included as appendices to the final CRR.	Submit the CRR to the CPM for review and approval.	Cultural Resource Report	Within 30 days of suspension of construction activities (suspended project)	Conditional		Not Started						JACOBS	GAL			
170		CUL	CUL-4b	CONS/COM/OPS	Final Cultural Resources Report - The project owner shall submit the final CRR to the CPM for approval. The final CRR shall be written by, or under the direction of, the CRS and shall be provided in the Archaeological Resource Management Report (ARMR) format. The final CRR shall report on all field activities including dates, times and locations, results, samplings, and analyses. All survey reports, DPR 523 forms, data recovery reports, and any additional research reports not previously submitted to the California Historical Resources Information System (CHRIS) shall be included as appendices to the final CRR.	Submit the CRR to the CPM for review and approval.	Cultural Resource Report	Within 90 days of the completion of ground disturbance (completed project)	8/21/2020		Not Started						JACOBS	GAL			
171		CUL	CUL-4c	CONS/COM/OPS	Documentation sent to CHRIS - See Cul-4a	Provide final CRR to the California Historical Resources Information System and curation institution (if artifacts curated) and tribes requesting copies.	Cultural Resource Report	Within 10 days after approval of CRR	Conditional		Not Started							JACOBS	GAL		
172																					

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5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date		Compliance Status for CPM (Not started, in progress, completed (with date))		Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager
192	CUL	CUL-7d	CONS/COM	Provide Reports and Records to Native American Groups (See Decision CUL-7 for specifications).	The project owner shall submit to the CPM copies of the information transmittal letters sent to the chairpersons of the Native American tribes or groups who requested the information. Additionally, the project owner shall submit to the CPM copies of letters of transmittal for all subsequent responses to Native American requests for notification, consultation, and reports and records.	Copies of transmittal letters to Native American tribes and copies of letters of subsequent responses to Native American requests	No later than 30 days following the discovery of any Native American cultural materials	Conditional	Date Submitted to CPM	Not started								JACOBS	GAL
193	CUL	CUL-7e	CONS/COM	Comments or Information Provided by Native Americans (See Decision CUL-7 for specifications).	The project owner shall submit to the CPM copies of any comments or information provided by Native Americans in response to the project owner's transmittals of information.	Copies of Native American comments and information in response to owner transmittals of information.	Within 15 days of receiving comments from Native Americans	Conditional		Not started								JACOBS	GAL
194	CUL	CUL-8a	CONS	Fill Soils, Borrow or Fill Site Documentation - If fill soils must be acquired from a non-commercial borrow site or disposed of to a non-commercial disposal site, unless less-than-five-year-old surveys of these sites for archaeological resources are provided to and approved by the CPM, the CRS shall survey the borrow or disposal site(s) for cultural resources and record on DPR 523 forms any that are identified. When the survey is completed, the CRS shall convey the results and recommendations for further action to the project owner and the CPM, who will determine what, if any, further action is required. If the CPM determines that significant archaeological resources that cannot be avoided are present at the borrow site, the project owner must either select another borrow or disposal site or implement CUL-7 prior to any use of the site. The CRS shall report on the methods and results of these surveys in the final CR.	The owner shall notify the CRS and CPM and provide documentation of previous archaeological survey, if any, dating within the past five years, for CPM approval.	Notification to the CPM of the use of a non-commercial borrow site and documentation of previous archaeological survey.	As soon as the project owner knows that a non-commercial borrow site will be used	3/28/2019	3/28/2019	Completed	3/29/2018							JACOBS	GAL
195	CUL	CUL-8b	CONS	Fill Soils, Cultural Resources Survey - in the absence of documentation of recent archaeological survey, at least 30 days prior to any soil borrow or disposal activities on the non-commercial borrow and/or disposal sites, the CRS shall survey the site(s) for archaeological resources.	The CRS shall notify the project owner and the CPM of the results of the cultural resources survey, with recommendations, if any, for further action.	Results of the cultural resources survey and CRS recommendations for further action, if needed.	At least 30 days before any soil borrow or disposal activities take place on the non-commercial borrow/disposal site	3/29/2019	3/29/2019	Completed	3/29/2019							JACOBS	GAL
196	ELEC	ELEC-1a	CONS	Electrical Systems Design Plans and Specifications - Prior to the start of any increment of electrical construction for all electrical equipment and systems 110 Volts or higher (see a representative list, below) the project owner shall submit, for CBO design review and approval, the proposed final design, specifications, and calculations. Upon approval, the above listed plans, together with design changes and design change notices, shall remain on the site or at another accessible location for the operating life of the project. The project owner shall request that the CBO inspect the installation to ensure compliance with the requirements of applicable LORS. (See Decision ELEC-1 for specifications)	The project owner shall submit to the CBO for design review and approval the above listed documents. The project owner shall include in this submittal a copy of the signed and stamped statement from the responsible electrical engineer attesting compliance with the applicable LORS, and shall send the CPM a copy of the transmittal letter in the next monthly compliance report.	Design plans, specifications, and calculations and compliance statement to CBO with copy to CPM	At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of each increment of electrical construction	Ongoing		In Progress		1-1.0: 1/23/19 1-2.0: 2/14/2019 1-3.0: 1/23/19 1-4.0: 1/29/19 1-5.0: 3/4/19 1-6.0: 3/22/19 1-7.0: 3/6/19 1-8.0: 5/20/19 1-9.0: 1-10.0: 3/29/19 1-11.0: 1-12.0: 5/20/19 1-13.0 7/24/19 SI-013 PC1 1-13.0 7/26/19 SI-014 PC1	1-1.0: 5/3/19 1-2.0: 2/15/19 1-3.0: 2/6/2019 1-4.0: 2/8/19 1-5.0: 3/14/19 1-6.0: 4/5/19 1-7.0: 3/20/19 1-8.0: 6/3/19 1-9.0: 1-10.0: 4/16/19 1-11.0: 1-12.0: 6/3/19 1-13.0 8/14/19 PCF				SERC	TAT	
197	ELEC	ELEC-1b	CONS/COM	Electrical Systems Design Plans and Specifications - Prior to the start of any increment of electrical construction for all electrical equipment and systems 110 Volts or higher (see a representative list, below) the project owner shall submit, for CBO design review and approval, the proposed final design, specifications, and calculations. Upon approval, the above listed plans, together with design changes and design change notices, shall remain on the site or at another accessible location for the operating life of the project. The project owner shall request that the CBO inspect the installation to ensure compliance with the requirements of applicable LORS. (See Decision ELEC-1 for specifications)	The project owner shall submit to the CBO for design review and approval the above listed documents. The project owner shall include in this submittal a copy of the signed and stamped statement from the responsible electrical engineer attesting compliance with the applicable LORS, and shall send the CPM a copy of the transmittal letter in the next monthly compliance report.	Monthly Compliance Report, Include: receipt or delay of major equipment, testing or energizing of major electrical equipment, and signed statement by registered electrical engineer certifying that the proposed final design plans and specifications conform to requirements set forth by CEC decision	Monthly	Monthly		In Progress		3/13/19 4/11/19 5/14/19 6/14/19 7/17/19						SERC	GAL

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	A	B	C	D	E	F	G	H	I	J	K	O	P	Q	R	S	T	U
1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)											Pre- Construction						
2	All Phases							6/30/2040				Construction						
3												Commissioning						
4				Revised 4/30/2019		Based on Final Staff Assessment						Operations						
5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager
201	GEN	GEN-2a	PC	Schedule of Drawings, Master Drawings, Specification Lists - Before submitting the initial engineering designs for CBO review, provide the CPM and the CBO with a schedule of facility design submittals, and master drawings and master specifications list, as specified in this condition (See Decision GEN-2). The schedule shall contain the date of each submittal to the CBO. To facilitate audits by Energy Commission staff, provide specific packages to the CPM upon request.	At least 60 days (or a project owner- and CBO-approved alternative time frame) prior to the start of rough grading, submit to the CBO and to the CPM the schedule, and the master drawings and master specifications list of documents to be submitted to the CBO for review and approval. These documents shall be the pertinent design documents for the major structures, systems, and equipment defined in this condition. Major structures and equipment shall be added to or deleted from the list only with CPM approval.	Schedule, Master Drawings & Specifications Lists	At least 60 days prior to the start of rough grading.	11/3/2018	11/2/2018	Completed	11/20/2018	2.1 Updated Sched of Dwgs, Equip & Sub1/18/2019	2.1 Approved 1/23/19					
202	GEN	GEN-2b	PC/CONS	Updates to Drawings and Lists - See GEN-2a	Provide Updates to Schedule of Drawings and Specification Lists updates in the MCR	Schedule updates	Monthly	Monthly		In Progress		1/18/2019	1/23/2019				SERC	GAL
203	GEN	GEN-3a	PC/CONS/C OM	Payment of CBO - Make payments to the CBO (made to the Energy Commission) for design review, plan checks, and construction inspections and other applicable CBO activities, based on a reasonable fee schedule to be negotiated between the project owner and the CBO. If the Energy Commission delegates the CBO function to a third party or local agency, the project owner, at the Energy Commission's direction, shall make payments directly to the DCBO based upon a fee schedule negotiated between the Energy Commission and the DCBO. These fees may be consistent with the fees listed in the 2016 CBC, adjusted for inflation and other appropriate adjustments; may be based on the value of the facilities reviewed; may be based on hourly rates; or may be otherwise agreed upon by the project owner and the CBO.	The project owner shall make the required payments to the CBO in accordance with the agreement. The project owner shall send a copy of the CBO's receipt of payment to the CPM in the next monthly compliance report indicating that applicable fees have been paid.	CBO monthly payments	Monthly	Monthly		In Progress		Monthly					SERC	RRF/JLJ
204	GEN	GEN-3b	PC/CONS/C OM	Payment of CBO - Make payments to the CBO (made to the Energy Commission) for design review, plan checks, and construction inspections and other applicable CBO activities, based on a reasonable fee schedule to be negotiated between the project owner and the CBO. If the Energy Commission delegates the CBO function to a third party or local agency, the project owner, at the Energy Commission's direction, shall make payments directly to the DCBO based upon a fee schedule negotiated between the Energy Commission and the DCBO. These fees may be consistent with the fees listed in the 2016 CBC, adjusted for inflation and other appropriate adjustments; may be based on the value of the facilities reviewed; may be based on hourly rates; or may be otherwise agreed upon by the project owner and the CBO.	The project owner shall make the required payments to the CBO in accordance with the agreement. The project owner shall send a copy of the CBO's receipt of payment to the CPM in the next monthly compliance report indicating that applicable fees have been paid.	Copy of CBO's Receipt of Payment with the MCR	Monthly	Monthly		In Progress		Monthly					SERC	GAL
205	GEN	GEN-4a	PC	Resident Engineer - Prior to the start of rough grading, assign a California- registered architect, or a structural or civil engineer, as the resident engineer (RE) in charge of the project. The RE or his/her delegate(s) shall be responsible for the elements listed in this condition (see Decision GEN-4).	At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of rough grading, submit to the CBO for review and approval, the resume and registration number of the RE and any other delegated engineers assigned to the project.	RE Resume & Registration Number	At least 30 days prior to the start of rough grading	12/3/2018	1/18/2019	Completed	N/A	Power: 12/24/2018 Jacobs: NVS: 3/4/2019	Power: 1/8/2019 Jacobs: NVS: 3/4/2019				SERC	TAT
206	GEN	GEN-4b	PC/CONS	Approval of RE - See GEN-4a	Notify the CPM of the CBO's approvals of the RE and other delegated engineer(s) within 5 days of the approval.	Notification to CPM	Within 5 days of receiving the approval	12/8/2018	1/18/2019	Completed		Power: 12/24/2018 Jacobs: NVS: 3/4/2019	Power: 1/8/2019 Jacobs: NVS: 3/4/2019				SERC	TAT
207	GEN	GEN-4c	PC/CONS	Approval of Newly Assigned RE - See GEN-4a	Submit new resume and registration number CBO for review and approval	Notification to CBO	Within 5 days of receiving the new resume and registration number	Conditional		Completed		2/6/2019	2/12/2019				SERC	TAT
208	GEN	GEN-4d	PC/CONS	Notification of Newly Assigned RE - See GEN-4a	Notify the CPM of the CBO's approvals of the RE and other delegated engineer(s) within 5 days of the approval.	Notification to CPM	Within 5 days of receiving the approval	Conditional	2/6/2019	In Progress		2/6/2019	2/12/2019				SERC	GAL

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1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)														Pre-Construction						
2	All Phases							6/30/2040							Construction						
3															Commissioning						
4				Revised 4/30/2019		Based on Final Staff Assessment									Operations						
5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other Agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager			
226	GEO	GEO-1a	PC	Soils Engineering Report - A Soils Engineering Report, as required by Section 1803 of the California Building Code (CBC, 2016), or its successor in effect at the time construction of the project commences, shall specifically include laboratory test data, associated geotechnical engineering analyses, and a thorough discussion of seismicity, liquefaction; dynamic compaction; compressible soils; corrosive soils; and ground rupture due to faulting. In accordance with the CBC, the report must also include recommendations for ground improvement and foundation systems necessary to mitigate these (potential geologic hazards, if present). In accordance with the California Business and Professions Code, the appropriate qualified California licensed individual(s) is required to sign and seal the Soils Engineering Report.	The project owner shall include in the application for a grading permit a copy of the Soils Engineering Report which addresses the potential for strong seismic shaking; liquefaction; dynamic compaction; settlement due to compressible soils; corrosive soils; and ground rupture due to faulting, and a summary of how the results of the analyses were incorporated into the project's foundation and grading plan design for review and comment by the delegate chief building official (CBO). The project owner shall provide to the CPM a copy of the Soils Engineering Report, application for grading permit and any comments by the CBO at least 60 days prior to grading.	Submit Copy of the Soils Engineering Report, application for grading permit to CBO for comments	90 days before grading	11/3/2018		Completed		1-1-0: 1/7/19 1-4-0: 1/7/19	1-1-0: 2/1/19 1-4-0: 2/1/19				NVS	TAT			
327	GEO	GEO-1b	PC	Soils Engineering Report - A Soils Engineering Report, as required by Section 1803 of the California Building Code (CBC, 2016), or its successor in effect at the time construction of the project commences, shall specifically include laboratory test data, associated geotechnical engineering analyses, and a thorough discussion of seismicity, liquefaction; dynamic compaction; compressible soils; corrosive soils; and ground rupture due to faulting. In accordance with the CBC, the report must also include recommendations for ground improvement and foundation systems necessary to mitigate these (potential geologic hazards, if present). In accordance with the California Business and Professions Code, the appropriate qualified California licensed individual(s) is required to sign and seal the Soils Engineering Report.	The project owner shall include in the application for a grading permit a copy of the Soils Engineering Report which addresses the potential for strong seismic shaking; liquefaction; dynamic compaction; settlement due to compressible soils; corrosive soils; and ground rupture due to faulting, and a summary of how the results of the analyses were incorporated into the project's foundation and grading plan design for review and comment by the delegate chief building official (CBO). The project owner shall provide to the CPM a copy of the Soils Engineering Report, application for grading permit and any comments by the CBO at least 60 days prior to grading.	Submit Copy of the Soils Engineering Report, application for grading permit, and CBO comments to CPM	60 days before grading	12/3/2018	11/2/2018	Completed	11/26/2018	1-1-0: 1/7/19 1-4-0: 1/7/19	1-1-0: 2/1/19 1-4-0: 2/1/19					GAL			
228	HAZ	HAZ-1	OPS	Hazardous Materials Management - The project owner shall not use any hazardous materials not listed in Appendix B, below, or in greater quantities or strengths than those identified by chemical name in Appendix B, below, unless approved in advance by the compliance project manager (CPM).	The project owner shall provide to the COM, in the Annual Compliance Report, the Hazardous Materials Business Plan's list of hazardous materials and quantities contained at the facility.	Submit Hazardous Materials Business Plan in the Annual Compliance Report.	Annual Compliance Report	12/31/2020		Not Started								DSR			
229	HAZ	HAZ-2a	CONS	HMBP and SPCC - The project owner shall concurrently provide a Hazardous Materials Business Plan (HMBP), a Spill Prevention Control and Countermeasure Plan (SPCC), and a Risk Management Plan (RMP) to the Orange County Environmental Health Division (OCEHD) and the CPM for review. After receiving comments from the OCEHD and the CPM, the project owner shall reflect all recommendations in the final documents. Copies of the final Hazardous Materials Business Plan and RMP shall then be provided to the OCEHD for information and to the CPM for approval.	Prior to receiving any hazardous material on the site for commissioning or operations, the project owner shall provide a copy of the HMBP and SPCC to the CPM for review.	HMBP, SPCC and RMP to CPM for review	Approximately 60 days before receiving hazardous materials on site	7/20/2019	8/2/2019	In Progress	9/12/2019	1-1-0 8/6/19 PC1 2-3-0 8/6/19 PC1						DSR			
230	HAZ	HAZ-2aa	CONS	HMBP and SPCC - The project owner shall concurrently provide a Hazardous Materials Business Plan (HMBP), a Spill Prevention Control and Countermeasure Plan (SPCC), and a Risk Management Plan (RMP) to the Orange County Environmental Health Division (OCEHD) and the CPM for review. After receiving comments from the OCEHD and the CPM, the project owner shall reflect all recommendations in the final documents. Copies of the final Hazardous Materials Business Plan and RMP shall then be provided to the OCEHD for information and to the CPM for approval.	Prior to receiving any hazardous material on the site for commissioning or operations, the project owner shall provide a copy of the HMBP and SPCC to the CPM for review.	HMBP, SPCC and RMP to CPM for review	Approximately 60 days before receiving hazardous materials on site	7/29/2019		In Progress				OCEHD	8/2/2019						

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2	All Phases							6/30/2040				Construction						
3												Commissioning						
4				Revised 4/30/2019		Based on Final Staff Assessment						Operations						
5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager
231																		
232																		
233	HAZ	HAZ-2ab	CONS	Final HMBP and SPCC - The project owner shall concurrently provide a Hazardous Materials Business Plan (HMBP), a Spill Prevention Control and Countermeasure Plan (SPCC), and a Risk Management Plan (RMP) to the Orange County Environmental Health Division (OCEHD) and the CPM for review. After receiving comments from the OCEHD and the CPM, the project owner shall reflect all recommendations in the final documents. Copies of the final Hazardous Materials Business Plan and RMP shall then be provided to the OCEHD for information and to the CPM for approval.	At least 30 days prior to receiving any hazardous material on the site for commissioning or operations, the project owner shall provide a copy of a final HMBP and SPCC to the CPM for approval.	HMBP and SPCC to OCEHD for review	At least 30 days before receiving hazardous materials on site	7/29/2019	9/27/2019	In Progress								
234	HAZ	HAZ-2ac	CONS	Final HMBP and SPCC - The project owner shall concurrently provide a Hazardous Materials Business Plan (HMBP), a Spill Prevention Control and Countermeasure Plan (SPCC), and a Risk Management Plan (RMP) to the Orange County Environmental Health Division (OCEHD) and the CPM for review. After receiving comments from the OCEHD and the CPM, the project owner shall reflect all recommendations in the final documents. Copies of the final Hazardous Materials Business Plan and RMP shall then be provided to the OCEHD for information and to the CPM for approval.	At least 30 days prior to receiving any hazardous material on the site for commissioning or operations, the project owner shall provide a copy of a final HMBP and SPCC to the CPM for approval.	HMBP and SPCC to OCEHD for review	At least 30 days before receiving hazardous materials on site	7/29/2019		In Progress				OCEHD	9/24/2019			
235	HAZ	HAZ-2b	CONS	Final Risk Management Plan - See HAZ-2a	At least 30 days prior to delivery of aqueous ammonia to the site, the project owner shall provide the final RMP to the Certified Unified Program Agency (the Orange County Environmental Health Division) for information and to the CPM for approval.	Final RMP to Certified Unified Program Agency (the Orange County Environmental Health Division)	At least 30 days before delivery of aqueous ammonia on site	7/29/2019		In Progress							SERC	DSR
236	HAZ	HAZ-2c	CONS	Final Risk Management Plan - See HAZ-2a	At least 30 days prior to delivery of aqueous ammonia to the site, the project owner shall provide the final RMP to the Certified Unified Program Agency (the Orange County Environmental Health Division) for information and to the CPM for approval.	Final RMP to CPM for approval	At least 30 days before delivery of aqueous ammonia on site	10/20/2019		In Progress		(Ref Only)					SERC	DSR
237	HAZ	HAZ-2c	CONS	Final Risk Management Plan - See HAZ-2a	At least 30 days prior to delivery of aqueous ammonia to the site, the project owner shall provide the final RMP to the Certified Unified Program Agency (the Orange County Environmental Health Division) for information and to the CPM for approval.	Final RMP to CUPA for information	At least 30 days before delivery of aqueous ammonia on site	10/20/2019						OCEHD				

	A	B	C	D	E	F	G	H	I	J	K	O	P	Q	R	S	T	U
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2	All Phases							6/30/2040				Construction						
3												Commissioning						
4												Operations						
				Revised 4/30/2019			Based on Final Staff Assessment											
	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party SERC	SERC Project Manager DSR
238	HAZ	HAZ-3	CONS/COM	Aqueous Ammonia Safety Management Plan - The project owner shall develop and implement a Safety Management Plan for delivery of aqueous ammonia and other liquid hazardous materials by tanker truck. The plan shall include procedures, protective equipment requirements, training, and a checklist. It shall also include a section describing all measures to be implemented to prevent mixing of incompatible hazardous materials including provisions to maintain lockout control by a power plant employee not involved in the delivery or transfer operation. This plan shall be applicable during construction, commissioning, and operation of the power plant.	At least 30 days prior to the delivery of any liquid hazardous material to the facility, the project owner shall provide a Safety Management Plan as described above to the CPM for review and approval.	Safety Management Plan to CPM	At least 30 days before delivery of any liquid hazardous material to the facility	10/20/2019	9/27/2019	In Progress								
239	HAZ	HAZ-3a	CONS/COM	Aqueous Ammonia Safety Management Plan - The project owner shall develop and implement a Safety Management Plan for delivery of aqueous ammonia and other liquid hazardous materials by tanker truck. The plan shall include procedures, protective equipment requirements, training, and a checklist. It shall also include a section describing all measures to be implemented to prevent mixing of incompatible hazardous materials including provisions to maintain lockout control by a power plant employee not involved in the delivery or transfer operation. This plan shall be applicable during construction, commissioning, and operation of the power plant.	At least 30 days prior to the delivery of any liquid hazardous material to the facility, the project owner shall provide a Safety Management Plan as described above to the CPM for review and approval.	Safety Management Plan to CBO	At least 30 days before delivery of any liquid hazardous material to the facility					9/27/2019					SERC	DSR
240	HAZ	HAZ-4	CONS	Ammonia Storage Tank Design - The aqueous ammonia storage facility shall be designed to the ASME Code for Unfired Pressure Vessels, Section VIII, Division 1. The storage tank shall be protected by a secondary containment that drains to an underground vault via (3) 1.25 square foot openings capable of holding precipitation from a 24-hour, 25-year storm event plus 100 percent of the capacity of the largest tank within its boundary. The storage tank shall have ammonia detectors positioned to detect an ammonia leak or loss of containment. The final design drawings and specifications for the ammonia storage tank, secondary containment basin, and underground vault shall be submitted to the CPM.	The project owner shall submit final design drawings and specifications for the ammonia storage tank, ammonia pumps, ammonia detectors around the ammonia storage tank, secondary containment basin, and underground vault to the CPM for review and approval (copy CBO)	Final design drawings for the ammonia storage and transfer facility	At least 30 days before construction of the ammonia storage and transfer facility	10/20/2019	3/15/2019 4/29/2019 (CBO approval transmitted to CPM)	Completed	4/30/2019	3/14/2019 (reference only)	4/29/2019				POWER	GAL
241	HAZ	HAZ-5	CONS	Transport Vehicle Specifications - The project owner shall direct all vendors delivering aqueous ammonia to the site to use only tanker truck transport vehicles that meet or exceed the specifications of MC-307/DOT-407.	The project owner shall submit copies of the notification letter to supply vendors indicating the transport vehicle specifications to the CPM for review and approval.	Copies of notification letter to supply vendors	At least 30 days prior to receipt of aqueous ammonia on site	10/20/2019	8/7/2019	In Progress							SERC	GAL
242	HAZ	HAZ-6a	CONS	HazMat Transport Route Restrictions - Prior to initial delivery, the project owner shall direct vendors delivering bulk quantities (>800 gallons per delivery) of hazardous material (e.g., aqueous ammonia, lubricating and insulating oils) to the site to use only the route approved by the CPM (from State Route 91, exiting on Beach Boulevard and traveling south to Katella Avenue, then east on Katella Avenue and turn left and head north on Dale Avenue to the Stanton entrance). The project owner shall obtain approval of the CPM if an alternate route is desired.	The project owner shall submit a copy of the letter containing the route restriction directions that were provided to any newly designated hazardous materials vendor to the CPM for review and approval.	Copy of the letter containing route restriction directions for hazardous materials vendor.	At least 60 days prior to initial receipt of bulk quantities (>800 gallons per delivery) of hazardous materials (e.g., aqueous ammonia, lubricating and insulating oils)	10/20/2019	8/7/2019	In Progress	8/20/2019	8/22/2019		GE Prolec	8/7/2019	8/7/2019	SERC	GAL
243	HAZ	HAZ-6b	CONS/OPS	Route Restrictions, New Vendor - See HAZ-6a	The project owner shall submit a copy of the letter containing the route restriction directions that were provided to any newly designated hazardous materials vendor to the CPM for review and approval.	Copy of the letter containing route restriction directions for the new hazardous materials vendor.	At least 10 days prior to a new vendor delivery of bulk quantities (>800 gallons per delivery)	10/20/2019		Not Started		(Ref Only)					SERC	GAL

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1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)											Pre-Construction						
2	All Phases							6/30/2040				Construction						
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4												Operations						
5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party SERC	SERC Project Manager GAL
253	MECH	MECH-2b	CONS	Pressure Vessel Installation - For all pressure vessels installed in the plant, the project owner shall submit to the CBO and California Occupational Safety and Health Administration (Cal-OSHA), prior to operation, the code certification papers and other documents required by applicable LORS. Upon completion of the installation of any pressure vessel, the project owner shall request the appropriate CBO and/or Cal-OSHA inspection of that installation. (See Decision MECH-2 for additional specifications).	The project owner shall submit to the CBO for design review and approval, the above listed documents, including a copy of the signed and stamped engineer's certification, with a copy of the transmittal letter to the CPM.	Design documents to CBO with copy of transmittal to CPM	Monthly Compliance Report (one time)	Monthly		Not Started								
254	MECH	MECH-2c	CONS	CBO and Cal-OSHA Inspections and Approvals, Pressure Vessels, MCR - See MECH-2a	The project owner shall transmit to the CPM, in the monthly compliance report following completion of any inspection, a copy of the transmittal letter conveying the CBO's and/or Cal-OSHA inspection approvals.	Letters documenting CBO and Cal-OSHA inspection approvals in MCR	Monthly	Monthly		Not Started							SERC	GAL
255	MECH	MECH-3a	PC/CONS	HVAC Plans - The project owner shall submit to the CBO for design review and approval the design plans, specifications, calculations, and quality control procedures for any heating, ventilating, air conditioning (HVAC) or refrigeration system. Packaged HVAC systems, where used, shall be identified with the appropriate manufacturer's data sheets. (See Decision MECH-3 for additional specifications).	The project owner shall submit to the CBO the required HVAC and refrigeration calculations, plans, and specifications, including a copy of the signed and stamped statement from the responsible mechanical engineer certifying compliance with the CBC and other applicable codes, with a copy of the transmittal letter to the CPM.	Calculations, plans, and specification, and statement of compliance to CBO	At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of construction of any HVAC or refrigeration system	10/7/2019		Completed		3-1.0 7/10/19 PC1 3-1.1 7/10/19 PC1 3-1.2 7/10/19 PC1 3-1.3 7/10/19 PC1 3-1.4 7/10/19 PC1 3-2.0 7/16/19 PC1 3-2.1 7/10/19 PC1 3-2.2 7/16/19 PC1 3-2.3 6/25/19 PC1 3-2.4 4/1/19 PC1 3-2.5 4/4/19 PC1 Issue 0164 1					SERC	JBM
256	MECH	MECH-3b	PC/CONS	HVAC Plans - The project owner shall submit to the CBO for design review and approval the design plans, specifications, calculations, and quality control procedures for any heating, ventilating, air conditioning (HVAC) or refrigeration system. Packaged HVAC systems, where used, shall be identified with the appropriate manufacturer's data sheets. (See Decision MECH-3 for additional specifications).	The project owner shall submit to the CBO the required HVAC and refrigeration calculations, plans, and specifications, including a copy of the signed and stamped statement from the responsible mechanical engineer certifying compliance with the CBC and other applicable codes, with a copy of the transmittal letter to the CPM.	Calculations, plans, and specification, and statement of compliance to CPM	At least 30 days (or project owner- and SPM-approved alternative time frame) prior to the start of construction of any HVAC or refrigeration system	10/7/2019		Not started							SERC	JBM
257	NOISE	NOISE-1a	PC	Public Notification Process - Prior to the start of ground disturbance, the project owner shall notify all residents within one mile of the project site and one-half mile of the linear facilities, by mail or by other effective means, of the commencement of project construction. At the same time, the project owner shall establish a telephone number for use by the public to report any undesirable noise conditions associated with the construction and operation of the project. If the telephone is not staffed 24 hours a day, the project owner shall include an automatic answering feature, with date and time stamp recording, to answer calls when the phone is unattended. This telephone number shall be posted at the project site during construction where it is visible to passersby. This telephone number shall be maintained until the project has been operational for at least one year.	The project owner shall transmit to the CPM a statement, signed by the project owner's project manager, stating that the notification to residents within one mile of the project has been performed, and describing the method of that notification.	Public notice to residents	At least 15 days prior to the start of ground disturbance	12/18/2018	12/17/2018	Completed	12/17/2018						JACOBS	GAL
258	NOISE	NOISE-1b	PC	Telephone Number Confirmation - See NOISE-1a	Transmit to the CPM a statement, signed by the project owner's project manager, stating that the telephone number has been established and posted at the site, and providing that telephone number.	Confirmation of that the telephone number has been established and posted at the site.	At least 15 days prior to the start of ground disturbance	12/18/2018	12/17/2018	Completed	12/21/2018						SERC	GAL
259	NOISE	NOISE-2a	CONS/COM/OPS	Noise Complaint Process - Throughout the construction and the full term of operation, including facility closure, the project owner shall document, investigate, evaluate, and attempt to resolve all project-related noise complaints. See Decision NOISE-2 for specifications.	File with the CPM a Noise Complaint Resolution Form that documents the resolution of the complaint.	Noise Complaint Resolution Form	Within five days of receiving a noise complaint	4/9/2019	4/9/2019	Completed	4/9/2019						SERC	GAL

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4				Revised 4/30/2019		Based on Final Staff Assessment						Operations						
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260	NOISE	NOISE-2b	CONS/COM/OPS	Noise Complaint Resolution - See NOISE-2a	If mitigation is required to resolve the complaint, and the complaint is not resolved within three business days, the project owner shall submit an updated Noise Complaint Resolution Form when the mitigation is implemented.	Updated Noise Resolution Complaint Form	When the mitigation is implemented	Conditional		Not Started								
261	NOISE	NOISE-3	PC	Employee Noise Control Program - Submit to the CPM for review and approval a noise control program and to reduce employee exposure to high (above permissible) noise levels during construction in accordance with Title 8, California Code of Regulations, Sections 5095-5099, and Title 29, Code of Federal Regulations, Section 1910.95.	At least 30 days prior to the start of ground disturbance, submit the noise control program to the CPM. Make the program available to Cal-OSHA upon request.	Noise Control Program	At least 30 days prior to the start of ground disturbance	12/3/2018	11/20/2018	Completed	1/3/2019	1/15/2019 (Ref Only)	1/18/2019				SERC	GAL
262	NOISE	NOISE-4a	COM/OPS	Operational Noise Survey - The project design and implementation shall include appropriate noise mitigation measures adequate to ensure that the noise levels due to the project operation alone do not exceed an hourly average exterior noise level of 49 dBA measured at monitoring location LT1 and 43 dBA measured at monitoring location LT2. See Decision NOISE-4 for further specifications.	Conduct the operational noise survey	Conduct the operational noise survey	Within 30 days of achieving a sustained output of 85 percent of rated capacity	4/12/2020		Not Started							Innova	DSR
263	NOISE	NOISE-4b	COM/OPS	Noise Survey Summary Report - See NOISE-4a	Prepare a summary report of the operational noise survey for submittal to the CPM. Included in the survey report shall be a description of any additional mitigation measures necessary to achieve compliance with the above listed noise limits, and a schedule, subject to CPM approval, for implementing these measures.	Summary report of the operational noise survey	Within 15 days after the survey	5/1/2020		Not Started							Innova	DSR
264	NOISE	NOISE-4c	COM/OPS	Revised Noise Survey Summary - See NOISE-4a	When the additional mitigation measures are implemented and in place, the project owner shall repeat and prepare a new summary report of the new survey.	Summary report of the new noise survey	Within 15 days of completing a new survey	Conditional		Not Started							Innova	DSR
265	NOISE	NOISE-5	COM/OPS	Occupational Noise Survey - Following the project's attainment of a sustained output of 85 percent or greater of its rated capacity, the project owner shall conduct an occupational noise survey to identify any noise hazardous areas within the power plant. The survey shall be conducted by a qualified person in accordance with the provisions of Title 8, California Code of Regulations, Sections 5095-5099 (Article 105) and Title 29, Code of Federal Regulations, Section 1910.95. The survey results shall be used to determine the magnitude of employee noise exposure. (See Decision NOISE-5 for further information).	The project owner shall submit the noise survey report to the CPM. The project owner shall make the report available to OSHA and Cal-OSHA upon request from OSHA and Cal-OSHA.	Noise Survey Report	Within 30 days after completing each survey	4/12/2020		Not Started		(Ref Only)					Innova	DSR
266	NOISE	NOISE-6	PC	Construction Noise Restrictions - Heavy equipment operation and noisy construction work, including pile driving, shall be restricted to the times delineated in this condition (See Decision NOISE-6). Construction work shall be performed in a manner to ensure excessive noise (noise that draws a project-related complaint) is prohibited and the potential for noise complaints is reduced as much as practicable. Haul trucks and other engine-powered equipment shall be equipped with adequate mufflers and other state-required noise attenuation devices. Haul trucks shall be operated in accordance with posted speed limits. Truck engine exhaust brake use (jake braking) shall be limited to emergencies.	Prior to ground disturbance, the project owner shall transmit to the CPM a statement acknowledging that the above restrictions will be observed throughout the construction work associated with this project.	Statement acknowledging restrictions	Prior to ground disturbance	1/1/2019	11/26/2018	Completed	1/3/2019	1/22/2019 (Ref Only)	1/24/2019				SERC	GAL
267	NOISE	NOISE-7a	CONS	Pile Driving Technique - The project owner shall perform pile driving in a manner to reduce the potential for any project-related noise and vibration complaints. The project owner shall notify the residents in the vicinity of pile driving prior to start of pile driving activities.	The project owner shall submit to the CPM a description of the pile driving technique to be employed, including calculations showing its projected noise impacts at monitoring location LT1.	Description of the pile driving technique to be used	At least 15 days prior to first pile driving	Conditional		Not Started		(Ref Only)					SERC	GAF

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268	NOISE	NOISE-7b	CONS	Notify Residents, Pile Driving - See NOISE-7a	The project owner shall notify the residents within one mile of the pile driving. In this notification, the project owner shall state that it will perform this activity in a manner to reduce the potential for any project-related noise and vibration complaints as much as practicable. The project owner shall submit a copy of this notification to the CPM prior to the start of pile driving.	Notification to residents within one mile of the project with copy to CPM	At least 10 days prior to first pile driving	Conditional		Not Started		(Ref Only)						
269	PAL	PAL-1a	PC	Paleontological Resources Specialist - Provide the CPM with the resume and qualifications of the PRS for review and approval. The PRS and Paleontological Resource Specialist (PRS) shall meet the minimum qualifications described in this condition (See Decision PAL-1 for specifications).	At least 60 days prior to the start of ground disturbance, submit a resume and statement of availability of its designated PRS for on-site work.	PRS Resume & Statement of Availability to CPM	At least 60 days prior to the start of ground disturbance	11/3/2018	10/18/2018	Completed	10/18/2018						JACOBS	GAL
270	PAL	PAL-1b	PC	Paleontological Resources Monitors - Ensure the PRS obtains qualified Paleontological Resource Monitors (PRMs) to monitor as he or she deems necessary on the project. PRMs shall have the equivalent of the qualifications described in this condition (PAL-1).	At least 30 days prior to ground disturbance, provide a letter with resumes naming anticipated monitors, stating that the identified monitors meet the minimum qualifications for paleontological resource monitoring required by the condition.	PRM Resumes & Quals	At least 30 days prior to ground disturbance	12/3/2018	11/1/2018 7/9/2019	Completed	11/9/2018						JACOBS	GAL
271	PAL	PAL-1c	PC/CONS	Certify additional PRMs (See PAL-1)	PRS shall provide additional letters and resumes to the CPM if needed.	PRM Resumes & Quals	No later than one week before beginning site duties.	Conditional	6/14/2019 6/17/2019 (Campbell) 7/9/2019 (Serrano) 8/20/19 9/3/2019 9/23/19 By Paleo West (D Alexander)	In Progress	6/17/2019 6/17/2019 (Campbell) 7/11/2019 (Serrano) 8/20/19 9/5/19 9/25/19 (Alexander)						JACOBS	GAL
272	PAL	PAL-1d	PC/CONS	Replacement PRS (See PAL-1)	Prior to any change of the PRS, project owner shall submit resume of proposed new PRS to CPM for review and approval	PRM Resumes & Quals	No time specified.	Conditional	2/27/2019	Completed	2/27/2019						JACOBS	GAL
273	PAL	PAL-2a	PC	Maps and Drawings to PRS - Provide to the PRS and the CPM, for approval, maps and drawings showing the footprint of the project, as described in this condition (See Decision PAL-2). If construction of the project proceeds in phases, maps and drawings may be submitted prior to the start of each phase. A letter identifying the proposed schedule of each project phase shall be provided to the PRS and CPM. The PRS or PRM shall consult weekly with the project superintendent or construction field manager to confirm area(s) to be worked the following week.	At least 30 days prior to the start of ground disturbance, provide the maps and drawings to the PRS and CPM.	Maps and drawings	At least 30 days prior to the start of ground disturbance	12/3/2018	11/26/2018	Completed	12/21/2018						JACOBS	GAL
274	PAL	PAL-2b	PC	Revised Maps and Drawings - If the footprint of the project or its linear facilities change, the project owner shall provide maps and drawings reflecting those changes to the PRS and CPM.	If there are changes to the footprint of the project, revised maps and drawings shall be provided to the PRS and CPM at least 15 days prior to the start of ground disturbance.	Maps and drawings	At least 15 days prior to the start of ground disturbance	Conditional		Not Started							JACOBS	GAL
275	PAL	PAL-2c	PC/CONS	Schedule Changes - Before work commences on affected phases, the project owner shall notify the PRS and CPM of any construction phase scheduling changes.	If there are changes to the scheduling of the construction phases, submit a letter to the CPM within 5 days of identifying the changes.	Schedule information	Within 5 days of identifying the changes	Conditional		Not Started							SERC	GAL
276	PAL	PAL-3a	PC	Paleontological Resources Monitoring and Mitigation Plan (PRMMP) - A paleontological resources monitoring and mitigation plan (PRMMP) shall include elements (1) through (10) as specified in this condition (See Decision PAL-3) and submitted to the CPM for review and approval to identify general and specific measures to minimize potential impacts to significant paleontological resources. Copies of the PRMMP shall reside with the PRS, each monitor, the project owner's on-site manager, and the CPM.	At least 30 days prior to ground disturbance, provide a copy of the PRMMP to the CPM. The PRMMP shall include an affidavit of authorship by the PRS, and acceptance of the PRMMP by the project owner evidenced by a signature.	PRMMP	At least 30 days prior to ground disturbance	12/3/2018	11/1/2018	Completed	1/14/2019						JACOBS	GAL

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284	PAL	PAL-7	CONS/COM/OPS	Paleontological Resources Report - The project owner shall ensure preparation of a Paleontological Resources Report (PRR) by the designated PRS. The PRR shall be prepared following completion of ground-disturbing activities. The PRR shall include an analysis of the collected fossil materials and related information, and shall be submitted to the CPM for approval.	The project owner shall submit the PRR under confidential cover to the CPM.	Paleontological Resources Report	Within 90 days after completion of ground disturbing activities, including landscaping	8/21/2020		Not started							JACOBS	GAL
285	PAL	PAL-8	CONS/COM/OPS	Curation Entity/Curation Fees - The project owner, through the designated PRS, shall ensure that all components of the PRMMP are adequately performed, including collection of fossil material, preparation of fossil material for analysis, analysis of fossils, identification and inventory of fossils, preparation of fossils for curation, and delivery for curation of all significant paleontological resource materials encountered and collected during project construction. The project owner shall pay all curation fees charged by the museum for fossil material collected and curated as a result of paleontological mitigation. The project owner shall also provide the curator with documentation showing the project owner irrevocably and unconditionally donates, gives, and assigns permanent, absolute, and unconditional ownership of the fossil material.	Within 60 days after the submittal of the PRR, the project owner shall submit documentation to the CPM identifying the entity that will be responsible for curating collected specimens. This documentation shall also show that fees have been paid for curation and the owner relinquishes control and ownership of all fossil material.	Documentation of the entity responsible for curation and that curation fees have been paid	Within 60 days of submittal of the PRR	11/4/2020		Not Started							JACOBS	GAL
286	SOCIO	SOCIO-1	PC	School Facility Development Fee - The project owner shall pay the current one-time statutory school facility development fee to the Magnolia Elementary School District and to the Anaheim Union High School District as authorized by Education Code Section 17620 and the Magnolia Elementary School District Board Policy BP 7211 Facilities: Developer Fees.	The project owner shall provide to the compliance project manager (CPM) proof that the delegate chief building official (DCBO) has calculated the assessable covered and enclosed space consistent with local practices and shall provide proof of payment of the development fees, based on the calculated space and current school development fees, to the Magnolia Elementary School District and to the Anaheim Union High School District.	Payment / Proof of payment of the development fees	At least 30 days prior to start of construction	12/3/2018	12/3/2018	Completed	12/5/2018	1/7/2019	1/10/2019				SERC	GAL
287	S&W	SOIL & WATER-1a	PC	NPDES Construction Permit Requirements - The project owner shall manage storm water pollution from project construction activities by fulfilling the requirements contained in State Water Resources Control Board's National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ, NPDES No. CAS000002) and all subsequent revisions and amendments. The project owner shall develop and implement a construction Storm Water Pollution Prevention Plan (SWPPP) for the construction of the project.	The project owner shall submit to the CPM proof that the construction permit was granted and that a waste discharge identification number (WDID) was issued by the State Water Resources Control Board (SWRCB).	Proof that construction permit was granted and a WDID was issued	At least thirty (30) days prior to site mobilization	12/3/2018	11/26/2018	Completed	12/12/2018	SWPPP: 1/7/19 WQMP: 3/18/19	SWPPP: 2/6/19 WQMP: 3/27/19				SERC	GAF
288	S&W	SOIL & WATER-1b	PC	NPDES Construction Permit Requirements-Storm Water Pollution Prevention Plan (SWPPP) - See SOIL & WATER 1a	Construction SWPPP to SWRQB	See S&W 1a	At least thirty (30) days prior to site mobilization	12/3/2018	11/26/2018	Completed	12/12/2018	SWPPP: 1/7/19 WQMP: 3/18/19	SWPPP: 2/6/19 WQMP: 3/27/19				SERC	GAF
289	S&W	SOIL & WATER-1c	PC/CONS	Correspondence with SARWQCB - See SOIL & WATER 1a	The project owner shall submit to the CPM any correspondence between the project owner and the SWRCB or the Santa Ana Regional Water Quality Control Board (SARWQCB) about the general NPDES permit for discharge of storm water associated with this activity. This information shall include the notice of intent, the notice of termination, and any updates to the construction SWPPP.	Correspondence between the owner and SARWQCB	Within ten (10) days of its mailing or receipt	Conditional		Not started		SWPPP: 1/7/19 WQMP: 3/18/19	SWPPP: 2/6/19 WQMP: 3/27/19				SERC	GAL

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290	S&W	SOIL & WATER-2a	PC	Stormwater Management Plan/WQMP - The project owner shall comply with the Orange County Model Water Quality Management Plan (WQMP) requirements in accordance with Title 4, Division 13 and Title 9, Division 1, of the Orange County Code. The project owner shall provide a WQMP for post-construction storm water BMPs to Orange County for review and the CPM for review and approval. The project owner shall notify the CPM in writing of any reported non-compliance with the county requirements, including documentation of any measures taken to correct the noncompliance, and the results of those corrective measures. See Decision SOIL&WATER-2 for additional specifications.	The project owner shall provide a WQMP for post-construction storm water BMPs to the CPM and to the Orange County Public Works Department.	WQMP for post-construction stormwater BMPs	At least 120 days prior to site grading	9/14/2018	9/14/2018 (Rev3/19) 3/27/2019	Completed	9/14/2018	PC1: 1/17/2019 PC2: 2/21/19 PC3: 3/18/19 (Ref Only)	3/27/2019					
291	S&W	SOIL & WATER-2b	PC	Orange County Public Works Department Review of WQMP - See SOIL & WATER-2a	Obtain County review of the WQMP	Verification of the county's completed review of the WQMP	30 days before grading	12/3/2018	11/29/2018	Completed	12/1/2/18	(Ref Only)					SERC	GAF
292	S&W	SOIL & WATER-2c	PC/CONS	Correspondence with County Re: Stormwater - See SOIL & WATER-2a	The project owner shall submit to the CPM all copies of any relevant correspondence between the project owner and the county regarding storm water management.	Copies of correspondence with the County regarding storm water management	Within 10 days of its mailing or receipt	Conditional		Not Started		(Ref Only)					SERC	GAL
293	S&W	SOIL & WATER-3a	PC/CONS	Hydrostatic and Dewatering Water Discharge Permit Requirements - Prior to initiation of discharge to surface water from hydrostatic testing water or groundwater from dewatering, the project owner shall obtain a National Pollutant Discharge Elimination System permit for discharge when applicable. The project owner shall comply with the requirements of the NPDES Permit Order No. CAG998001 for hydrostatic testing and dewatering (if applicable) water discharge. The project owner shall provide a copy of all permit documentation sent to the Santa Ana Regional Water Quality Control Board (SARWQCB) or State Water Resources Control Board (SWRCB) to the CPM and notify the CPM in writing of any reported non-compliance.	The project owner shall submit to the CPM documentation that all necessary NPDES permits were obtained from the SARWQCB or SWRCB at least 30 days prior to construction.	Documentation that NPDES permits are obtained	Thirty (30) days prior to the first scheduled hydrostatic testing event or discharge of groundwater dewatering water	12/3/2018	12/4/2018	In Progress	12/13/2018	(Ref Only)					SERC	GAL
294	S&W	SOIL & WATER-3b	PC	NPDES Plans and Permits - See SOIL&WATER-3a	The project owner shall submit to the CPM a copy of the relevant plans and permits received.	Plans and permits	Thirty days (30) prior to project construction	12/3/2018	12/6/2018	Completed	12/11/2018	(Ref Only)					SERC	GAL
295	S&W	SOIL & WATER-3c	PC/CONS/O PS	Correspondence with SWRCB - See SOIL&WATER-3a	The project owner shall submit to the CPM all copies of any relevant correspondence between the project owner and the SWRCB regarding NPDES permits in the annual compliance report.	Copies of correspondence	Annual Compliance Report	12/31/2020		Not Started		(Ref Only)					SERC	GAL
296	S&W	SOIL & WATER-4a	CONS	Water Use and Reporting - Water supply for project construction and operation shall be potable water supplied by Golden State Water Company. Project water use for construction shall not exceed 5.6 acre-feet, project operation water use shall not exceed 34 AFY. The project owner shall record daily water use for the project's construction and operation. The project owner shall comply with the water use limits and reporting requirements described below.	During project construction, the monthly compliance report shall include a monthly summary of daily water use. After construction is complete, the project's annual compliance report shall include a monthly summary of daily water use.	Summary of daily water use	Monthly Compliance Report	Monthly		In progress		(Ref Only)					ARB	GAL
297	S&W	SOIL & WATER-4b	COM/OPS	Water Use and Reporting - Water supply for project construction and operation shall be potable water supplied by Golden State Water Company. Project water use for construction shall not exceed 5.6 acre-feet, project operation water use shall not exceed 34 AFY. The project owner shall record daily water use for the project's construction and operation. The project owner shall comply with the water use limits and reporting requirements described below.	During project construction, the monthly compliance report shall include a monthly summary of daily water use. After construction is complete, the project's annual compliance report shall include a monthly summary of daily water use.	Monthly and annual summary of water use	Annual Compliance Report	12/31/2020		In Progress		(Ref Only)					SERC	DSR
298	S&W	SOIL & WATER-5a	PC/CONS/O PS	Water Metering - The water supply for project construction and operation shall be the potable water supply from Golden State Water Company. Prior to the use of water during commercial operation, the project owner shall install and maintain metering devices as part of the water supply and distribution system to monitor and record in gallons per day the total volume(s) of water supplied from Golden State Water Company. Those metering devices shall be operational for the life of the project.	The project owner shall submit to the CPM evidence that metering devices have been installed and are operational.	The project owner shall submit to the CPM evidence that they have complied with all requirements and paid the necessary fees for connection	At least thirty (30) days prior to use of the Golden State Water Company potable water supply	12/3/2018 11/28/2019	11/29/2018	In Progress	12/1/2/18	(Ref Only)					ARB	GAL

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	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager
299	S&W	SOIL & WATER-5b	PC/CONS/C OM/OPS	Water Metering - The water supply for project construction and operation shall be the potable water supply from Golden State Water Company. Prior to the use of water during commercial operation, the project owner shall install and maintain metering devices as part of the water supply and distribution system to monitor and record in gallons per day the total volume(s) of water supplied from Golden State Water Company. Those metering devices shall be operational for the life of the project.	The project owner shall submit to the metering devices have been installed and are operational.	Evidence that metering devices have been installed and are operational	At least thirty (30) days prior to use of the Golden State Water Company potable water supply.	11/28/2019	2/22/2019 3/21/2019	In Progress		(Ref Only)					SERC	GAL
300	S&W	SOIL & WATER-5c	COM/OPS	Water Metering - The water supply for project construction and operation shall be the potable water supply from Golden State Water Company. Prior to the use of water during commercial operation, the project owner shall install and maintain metering devices as part of the water supply and distribution system to monitor and record in gallons per day the total volume(s) of water supplied from Golden State Water Company. Those metering devices shall be operational for the life of the project.	Provide a report on the servicing, testing, and calibration of the metering devices in the ACR. Fees paid to Golden State Water Company shall be reported in the ACR for the life of the project.	Provide a report on the servicing, testing, and calibration of the metering devices in the ACR	Annual Compliance Report	12/31/2020				(Ref Only)					SERC	DSR
301	S&W	SOIL & WATER-5d	COM/OPS	Water Metering - The water supply for project construction and operation shall be the potable water supply from Golden State Water Company. Prior to the use of water during commercial operation, the project owner shall install and maintain metering devices as part of the water supply and distribution system to monitor and record in gallons per day the total volume(s) of water supplied from Golden State Water Company. Those metering devices shall be operational for the life of the project.	Provide a report on the servicing, testing, and calibration of the metering devices in the ACR. Fees paid to Golden State Water Company shall be reported in the ACR for the life of the project.	Fees paid to Golden State Water Company shall be reported in the Annual Compliance Report (ACR)	Annual Compliance Report	12/31/2020				(Ref Only)					SERC	DSR
302	S&W	SOIL & WATER-6a	PC/CONS	Sewer Connections - The project owner shall pay the city of Stanton all fees normally associated with connections to the city's sanitary sewer or water supply system as defined in the city's code, Title 14 Water and Sewers.	The owner shall provide the CPM documentation indicating that the city has accepted the project's connections to the sewer system.	Documentation that the City accepts the SERC's sewer connection.	Prior to the use of the city's sewer system	6/30/2019	(Pacific Street - existing line) 5/9/2019	Completed	5/16/2019	(Ref Only)					ARB	GAL
303	S&W	SOIL & WATER-6b	CONS/COM/OPS	Sewer Connections - The project owner shall pay the city of Stanton all fees normally associated with connections to the city's sanitary sewer or water supply system as defined in the city's code, Title 14 Water and Sewers.	Monthly and annual summary of waste water discharge and fees paid to the city shall be reported in the ACR.	Fees paid to the city shall be reported in the ACR.	Annual Compliance Report	12/31/2020				(Ref Only)					SERC	DSR
304	S&W	SOIL & WATER-6c	CONS/COM/OPS	Sewer Connections - The project owner shall pay the city of Stanton all fees normally associated with connections to the city's sanitary sewer or water supply system as defined in the city's code, Title 14 Water and Sewers.	Monthly and annual summary of waste water discharge and fees paid to the city shall be reported in the ACR.	Monthly and annual summary of waste water discharge.	Annual Compliance Report	12/31/2020				(Ref Only)					SERC	DSR
305	S&W	SOIL & WATER-7	PC/CONS	Jack and Bore Permits - Prior to the initiation of any Carbon Creek jack and bore activities for the natural gas pipeline, the project owner shall apply for coverage under the following permits: (see Decision SOIL&WATER 7 for list) - Section 401, Section 404, Section 408, Streambed Alteration Agreement,	The project owner shall provide the CPM with copies of the applicable permits or agreements.	Permits or agreement documents	No later than thirty (30) days prior to any construction-related activities that could affect water quality in Carbon Creek	6/30/2019	5/31/2019	Completed	6/19/2019	(Ref Only)					SoCalGas	GAL
306	S&W	SOIL & WATER-8a	PC	Bridge Encroachment Permits - The project owner shall obtain an encroachment permit for the construction of the vehicle and utility bridges from the Orange County Public Works Department in accordance with Orange County Code – Title 9, Division 2, Article 2, Sections 9-2-40 and 9-2-50. The project owner shall pay all necessary fees to Orange County Public Works Department for compliance with the permit review and approval process. The project owner shall submit the encroachment permit application package to Orange County Public Works Department and the CPM for review and approval prior to construction. The project owner shall also provide a copy of the approved permit to the CPM.	The project owner shall provide a copy of the application package for the encroachment permit and any comments from Orange County Public Works Department to the CPM for review and approval.	Application for encroachment permit and OCPWD comments	At least ninety (90) days prior to bridge construction	11/27/2018	9/17/2018	Completed	12/13/2018	2/5/19 (Ref Only)	2/5/19 (Ref Only)				SERC	GAL
307	S&W	SOIL & WATER-8b	PC	OCPWD Permit - See SOIL&WATER-8a	The project owner shall submit a copy of the final approved permit from Orange County Public Works Department to the CPM for review and approval.	Copy of final approved permit from OCPWD	At least 30 days prior to bridge construction	1/26/2019	2/1/2019	Completed	3/12/2019	2/5/2019 (Ref Only)	2/5/19 (Ref Only)				SERC	GAL

[illegible]

	A	B	C	D	E	F	G	H	I	J	K	O	P	Q	R	S	T	U
1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)											Pre-Construction						
2	All Phases							6/30/2040				Construction						
3												Commissioning						
4				Revised 4/30/2019		Based on Final Staff Assessment						Operations						
5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party SERC	SERC Project Manager GAL
316	STRUC	STRUC-3a	PC/CONS	Final Design Changes - The project owner shall submit to the CBO design changes to the final plans required by the 2016 CBC, including the revised drawings, specifications, calculations, and a complete description of, and supporting rationale for, the proposed changes, and shall give to the CBO prior notice of the intended filing.	The project owner shall notify the CBO of the intended filing of design changes, and shall submit the required number of sets of revised drawings and the required number of copies of the other abovementioned documents to the CBO, with a copy of the transmittal letter to the CPM.	Revised drawings to CBO	Schedule suitable to the CBO	6/30/2019		Not Started								
317	STRUC	STRUC-3aa	PC/CONS	Final Design Changes - The project owner shall submit to the CBO design changes to the final plans required by the 2016 CBC, including the revised drawings, specifications, calculations, and a complete description of, and supporting rationale for, the proposed changes, and shall give to the CBO prior notice of the intended filing.	The project owner shall notify the CBO of the intended filing of design changes, and shall submit the required number of sets of revised drawings and the required number of copies of the other abovementioned documents to the CBO, with a copy of the transmittal letter to the CPM.	Revised drawings to CBO and transmittal to CPM	Schedule suitable to the CBO	6/30/2019		Not Started							SERC	GAL
318	STRUC	STRUC-3b	PC/CONS	Plan Approval Notification in MCR - See STRUC-3a	The project owner shall notify the CPM, via the monthly compliance report, when the CBO has approved the revised plans.	Notification of CBO Plan approval in MCR	Monthly	Monthly		In Progress							SERC	GAL
319	STRUC	STRUC-4a	CONS	Tank and HazMat Vessel Design - Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts specified in the 2016 CBC shall, at a minimum, be designed to comply with the requirements of that chapter.	The project owner shall submit to the CBO for design review and approval final design plans, specifications, and calculations, including a copy of the signed and stamped engineer's certification.	Final design plans, specifications, and calculations	At least 30 days (or project owner- and CBO-approved alternate time frame) prior to the start of installation of the tanks or vessels containing the above specified quantities of toxic or hazardous materials	10/20/2019									SERC	TAT
320	STRUC	STRUC-4b	CONS	CBO Approvals in MCR - See STRUC-4a	The project owner shall send copies of the CBO approvals of plan checks to the CPM in the monthly compliance report following receipt of such approvals. The project owner shall also transmit a copy of the CBO's inspection approvals to the CPM in the monthly compliance report following completion of any inspection.	Copies of CBO approvals in MCR	Monthly	Monthly		In Progress							SERC	GAL
321	TLSN	TLSN-1	CONS	66 kV Line Requirements - The project owner shall construct the proposed 66-kV transmission line according to the requirements of California Public Utility Commission's GO-95, GO-128, GO-52, GO-131-D, Title 8, and Group 2, High Voltage Electrical Safety Orders, sections 2700 through 2974 of the California Code of Regulations, and Southern California Edison's EMF reduction guidelines.	The project owner shall submit to the compliance project manager (CPM) a letter signed by a California registered electrical engineer affirming that the line will be constructed according to the requirements stated in the condition.	Letter affirming construction in accordance with requirements	At least 30 days prior to start of construction of the transmission line or related structures and facilities	6/1/2019	3/15/2019	Completed	4/4/2019	3/15/2019 (Ref Only)	3/18/2019				SCE	GAL
322	TLSN	TLSN-2	CONS	Metallic Objects Grounded - The project owner shall ensure that all permanent metallic objects within the proposed route are grounded according to industry standards.	The project owner shall submit to the compliance project manager (CPM) a letter signed by a California registered electrical engineer affirming compliance with this condition.	Letter affirming compliance	At least 30 days before the line is energized	12/27/2019		Not Started		(Ref Only)					SCE	GAF
323	TRANS	TRANS-1a	CONS	Roadway Use Permits and Regulations - The project owner shall comply with limitations imposed by the Department of Transportation (Caltrans) and other relevant jurisdictions, including the cities of Stanton, Anaheim, Buena Park, Garden Grove, and Westminster, and the county of Orange, on vehicle sizes and weights, driver licensing, and truck routes.	The project owner shall identify the permits received during that reporting period (copies of actual permits are not required in the MCR) to demonstrate project compliance with limitations of relevant jurisdictions for vehicle sizes, weights, driver licensing, and truck routes.	List of permits received in MCR	Monthly	Monthly		In Progress		(Ref Only)					ARB	GAL
324	TRANS	TRANS-1b	CONS	Copies of Permits - See TRANS-1a	The project owner shall retain copies of permits and supporting documentation on-site for compliance project manager (CPM) inspection if requested.	Copies of permits and documentation	During construction	Ongoing		In Progress		(Ref Only)					SERC	TLB

	A	B	C	D	E	F	G	H	I	J	K	O	P	Q	R	S	T	U
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2	All Phases											Pre-Construction						
3												Construction						
4												Commissioning						
5												Operations						
6	Revised 4/30/2019																	
7	Based on Final Staff Assessment																	
8	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager
325	TRANS	TRANS-2a	PC	Traffic Control Plan - Prior to the start of construction, the project owner shall prepare a Traffic Control Plan (TCP) for the project's construction traffic. The TCP shall address the movement of workers, vehicles, and materials, including arrival and departure schedules and designated workforce and delivery routes. The project owner shall consult with the city of Stanton in the preparation and implementation of the TCP. The project owner shall submit the proposed TCP to the city in sufficient time for review and comment, and to the CPM for review and approval prior to the proposed start of construction and implementation of the plan. (See Decision TRANS-2 for specifics).	The project owner shall submit the TCP to the city of Stanton for review	Traffic Control Plan and transmittal letter to City of Stanton	At least 60 calendar days prior to the start of construction	12/6/2018	10/18/2018	Completed	12/16/2018	1/22/2019 (Ref Only)	1/23/2019	City of Stanton	3/1/2019 7/1/2019	3/4/2019 7/17/2019	JACOBS	GAL
326	TRANS	TRANS-2b	PC	Traffic Control Plan - Prior to the start of construction, the project owner shall prepare a Traffic Control Plan (TCP) for the project's construction traffic. The TCP shall address the movement of workers, vehicles, and materials, including arrival and departure schedules and designated workforce and delivery routes. The project owner shall consult with the city of Stanton in the preparation and implementation of the TCP. The project owner shall submit the proposed TCP to the city in sufficient time for review and comment, and to the CPM for review and approval prior to the proposed start of construction and implementation of the plan. (See Decision TRANS-2 for specifics).	The project owner shall submit the TCP to the CPM for review and approval. The project owner shall also provide the CPM with a copy of the transmittal letter to the city of Stanton requesting review and comment.	Traffic Control Plan and transmittal letter to City of Stanton	At least 60 calendar days prior to the start of construction	11/29/2018	11/29/2018 3/1/2019 7/1/2019	Completed	12/21/2018 3/5/2019 7/18/2019	1/22/2019 (Ref Only)	1/23/2019				JACOBS	GAL
327	TRANS	TRANS-2c	PC	Letters of Comment on TCP - See TRANS-2a	The project owner shall provide copies of any comment letters received from the city of Stanton or any other interested agencies, along with any changes to the TCP, for CPM review and approval.	Copies of comment letters	At least 30 calendar days prior to the start of construction	1/5/2019	11/29/2018	Completed	12/4/2018	1/22/2019 (Ref Only)	1/23/2019				Jacobs	GAL
328	TRANS	TRANS-2d	PC	Final TCP to City - See TRANS-2a	The project owner shall provide completed copies of the final TCP to the city of Stanton and any other interested agencies, sending copies of the correspondence to the CPM.	Copies of final TCP to City and interested parties	After CPM review and approval	3/1/2019	11/29/2018	Completed	12/4/2018	1/22/2019 (Ref Only)	1/23/2019	City of Stanton	3/1/2019	3/4/2019	JACOBS	GAL
329	TRANS	TRANS-3a	PC	Restoration of Public Roads, Easements, and Rights-of-Way - The project owner shall restore all public roads, easements, rights-of-way, and any other transportation infrastructure damaged due to project-related construction and traffic. Restoration shall be completed in a timely manner to the infrastructure's original condition. Restoration of significant damage which could cause hazards (such as potholes, deterioration of pavement edges, or damaged signage) shall take place immediately after the damage has occurred. Prior to the start of site mobilization, the project owner shall notify the relevant agencies, including the city of Stanton, county of Orange, Caltrans District 12, and any jurisdictions affected by construction of the linear facilities, of the proposed schedule for project construction. The purpose of this notification is to request that these agencies consider postponement of any planned public right-of-way repairs or improvement activities in areas affected by project construction until construction is completed, and to coordinate any concurrent activities that cannot be postponed.	Prior to the start of site mobilization, the project owner shall videotape roads and intersections along the major routes construction vehicles would take in the vicinity of the project site. The project owner shall provide the videotapes or other recorded visual media to the CPM.	Videotape of pre-project road conditions	Prior to the start of site mobilization	1/31/2019	1/30/2019	Completed	1/31/2019	1/31/2019 (Ref Only)	1/31/2019				SERC	GAL

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5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager
336	TRANS	TRANS-6a	PC	Rail Crossing Safety Plan - Prior to any construction-related ground disturbance, the project owner shall develop and implement a rail crossing safety plan for construction that addresses construction-related pedestrian activity (including workers walking between the parking area and the site or working at the site), construction vehicles, and heavy/oversize loads. The rail crossing safety plan must include plans for a flagger at the railroad tracks during worker arrival and departure times to ensure safe worker crossing.	The project owner shall submit the rail crossing safety plan to the city of Stanton for review and comment	Rail Crossing Safety Plan and transmittal letters to City and UPRR	At least 60 calendar days prior to the start of construction-related ground disturbance	12/20/2018	11/1/2018	Completed	12/21/2018							
337	TRANS	TRANS-6b	PC	Rail Crossing Safety Plan - Prior to any construction-related ground disturbance, the project owner shall develop and implement a rail crossing safety plan for construction that addresses construction-related pedestrian activity (including workers walking between the parking area and the site or working at the site), construction vehicles, and heavy/oversize loads. The rail crossing safety plan must include plans for a flagger at the railroad tracks during worker arrival and departure times to ensure safe worker crossing.	The project owner shall submit the rail crossing safety plan to Union Pacific Railroad (UPRR) for review and comment	Rail Crossing Safety Plan and transmittal letters to City and UPRR	At least 60 calendar days prior to the start of construction-related ground disturbance	12/20/2018	11/1/2018	Completed	N/A			UPRR	11/1/18	No comments received from UPRR. Comments were requested by 11/30/18	SERC	GAL
338	TRANS	TRANS-6c	PC	Rail Crossing Safety Plan - Prior to any construction-related ground disturbance, the project owner shall develop and implement a rail crossing safety plan for construction that addresses construction-related pedestrian activity (including workers walking between the parking area and the site or working at the site), construction vehicles, and heavy/oversize loads. The rail crossing safety plan must include plans for a flagger at the railroad tracks during worker arrival and departure times to ensure safe worker crossing.	The project owner shall submit the rail crossing safety plan to the CPM for review and approval. The project owner shall also provide the CPM with a copy of the transmittal letters to the city of Stanton and UPRR requesting review and comment.	Rail Crossing Safety Plan and transmittal letters to City and UPRR	At least 60 calendar days prior to the start of construction-related ground disturbance	12/20/2018	12/3/2018	Completed	1/24/2019			City of Stanton UPRR	City of Stanton: 10/29/2018; UPRR: 11/1/2018	City of Stanton: 10/29/18	SERC	GAL
339	TRANS	TRANS-6d	PC	Final Rail Crossing Safety Plan - See TRANS-6a	The project owner shall provide copies of any comment letters received from the city of Stanton and UPRR, along with any changes to the rail crossing safety plan, for CPM review and approval.	Final Rail Crossing Safety Plan and copies of comment letters	At least 30 calendar days prior to the start of construction-related ground disturbance	1/19/2019	12/3/2018	Completed	1/24/2019						JACOBS	GAL
340	TRANS	TRANS-6e	PC	Final Rail Crossing Safety Plan - See TRANS-6a	After CPM review and approval, the project owner shall provide completed copies of the final rail crossing safety plan to the city of Stanton and UPRR, sending copies of the correspondence to the CPM.	Final Rail Crossing Safety Plan and copies of comment letters	At least 30 calendar days prior to the start of construction-related ground disturbance	1/19/2019	1/19/2019	Completed	1/24/2019			City of Stanton UPRR			SERC	GAL
341	TRANS	TRANS-7	CONS	FAA Notification for Construction Equipment at or Exceeding 153 Feet AGL - The project owner or its contractor(s) shall file Federal Aviation Administration (FAA) Form 7460-1, Notice of Proposed Construction or Alteration, with the FAA for any construction equipment 153 feet above ground level (AGL) or taller. The project owner shall comply with any conditions imposed by the FAA as part of their hazard determination, such as marking and lighting requirements.	The project owner shall submit to the CPM a copy of the FAA's hazard determination.	FAA Form 7460-2, Notice of Actual Construction or Alteration	At least 30 days prior to the presence of any construction equipment 153 feet AGL or taller	4/24/2019	4/24/2019 5/1/2019 (corrected elevation)	Completed	5/1/2019 8/5/19						JACOBS	GAL
342	TRANS	TRANS-8a	CONS	Pilot Notification and Awareness - The project owner shall initiate the following actions to ensure pilots are aware of the project location and potential hazards to aviation. (See Decision TRANS-8 for specifications).	The project owner shall submit to the CPM for review and approval draft language for the letters of request to the FAA, the LAAA Manager, and the FMA Manager. The letters should request a response within 30 days that includes a timeline for implementing the required actions.	Draft letters to the FAA, LAAA Manager, and FMA Manager	Within 60 days following the start of construction	4/19/2019	3/20/2019	Completed	3/22/2019						JACOBS	GAL
343	TRANS	TRANS-8b	CONS	Final Letters to FAA, LAAA, and FMA - See TRANS-8a	The project owner shall submit the required letters of request to the FAA, the LAAA Manager, and the FMA Manager. The project owner shall submit copies of these requests to the CPM. A copy of any resulting correspondence shall be submitted to the CPM within 10 days of receipt. If the FAA, the LAAA Manager, or the FMA Manager does not respond within 30 days, the project owner shall contact the CPM.	Final letters to the FAA, LAAA Manager, and FMA Manager	Within 60 days after CPM approval of the draft language	5/7/2019	3/22/2019	Completed	5/22/2019			Los Alamitos Army Airfield, FAA, Fullerton Municipal Airport	3/27/2019		JACOBS	GAL

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5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party SERC	SERC Project Manager GAF
357	TSE	TSE-5d	COM/OPS	As-Built Drawings - The project owner shall be responsible for the inspection of the transmission facilities during and after project construction, and any subsequent CPM and CBO approved changes thereto, to ensure conformance with CPUC General Order (GO) 95, CPUC GO 128, or NESC, Title 8, CCR, Articles 35, 36 and 37 of the "High Voltage Electric Safety Orders", applicable interconnection standards, as well as NEC and related industry standards. In case of nonconformance, the project owner shall inform the CPM and CBO in writing, within 10 days of discovering such non-conformance, and describe the corrective actions to be taken.	Within 60 days after first synchronization of the project, the project owner shall transmit to the CPM and CBO "as built engineering descriptions" and inspection summaries (see Decision TSE-5 Verification for specifications)	Summary of inspections of the completed transmission facilities and identification of any nonconforming work and corrective actions taken, signed and sealed by registered engineer submitted to CPM and CBO	Within 60 days after first synchronization of the project or completed transmission facilities	4/18/2020		Not Started								
358	VIS	VIS-1a	PC	Surface Treatment of Project Structures - The project owner shall treat the surfaces of all project structures and buildings visible to the public such that a) their colors minimize visual intrusion and contrast by blending with the landscape; b) their colors and finishes do not create excessive glare; and c) their colors and finishes are consistent with local policies and ordinances. The transmission line conductors shall be non-reflective and non-reflective, and the insulators shall be non-reflective and non-reflective. See Decision VIS-1 for specifications)	The project owner shall submit the proposed treatment plan to the CPM for review and approval and simultaneously to the city of Stanton for review and comment.	Proposed Surface Treatment Plan	At least 90 days prior to specifying to the vendor the colors and finishes of the first structures or buildings that are surface treated during manufacture	11/10/2017	2/26/19 3/6/2019	Completed	3/14/2019	3/12/2019 (Ref Only)	3/18/2019	City of Stanton	3/6/2019	3/11/2019 (City of Stanton Approval - no comments)	SERC	GAL
359	VIS	VIS-1b	PC/CONS	Revised Surface Treatment Plan - See VIS-1a	If the CPM determines that the plan requires revision, the project owner shall provide to the CPM a plan with the specified revision(s) for review and approval by the CPM before any treatment is applied. Any modifications to the treatment plan must be submitted to the CPM for review and approval.	Revised Surface Treatment Plan	Any modifications to the treatment plan must be submitted to the CPM for review and approval	Conditional		Not Started		(Ref Only)					SERC	GAL
360	VIS	VIS-1c	CONS	Notification that Treatment Completed - See VIS-1a	The project owner shall notify the CPM that surface treatment of all listed structures and buildings has been completed and is ready for inspection and shall submit one set of electronic color photographs from the same Key Observation Points (KOP) 1 and 2.	Notification to the CPM that surface treatment is completed and color photographs	Prior to the start of commercial operation	4/1/2020		Not Started		(Ref Only)					SERC	GAL
361	VIS	VIS-1d	OPS	Surface Treatment Maintenance - See VIS-1a	Project owner shall provide status report regarding surface treatment maintenance in the ACR. The report shall specify a) the condition of the surfaces of all structures and buildings at the end of the reporting year; b) maintenance activities that occurred during the reporting year; and c) the schedule of maintenance activities for the next year	Status Report	Annual Compliance Report	12/31/2020				(Ref Only)					SERC	DSR
362	VIS	VIS-2a	CONS	Screening Landscaping Plan - The project owner shall also submit to the CPM for review and approval, and simultaneously to the city of Stanton for review and comment, a detailed landscape plan and irrigation plan for the power plant site in fulfillment of requirements of applicable laws, ordinances, regulations, and standards, including water efficiency irrigation standards as required by the city of Stanton. See Decision VIS-2 for specifications.	The landscaping plans and irrigation plans shall be submitted to the CPM for review and approval and simultaneously to the city of Stanton for review and comment at least 90 days prior to installation.	Landscaping and irrigation plans	At the earliest feasible time during or prior to construction and at least 90 days prior to installation	1/9/2020		Not Started		(Ref Only)					SERC	GAL
363	VIS	VIS-2b	CONS	Revised Landscaping and Irrigation Plans - See VIS-2a	If the CPM determines that the plans require revision, the project owner shall provide to the CPM and simultaneously to the city of Stanton a revised plan for review and approval by the CPM.	Revised landscaping and irrigation plans	No specific time frame	Conditional		Not Started		(Ref Only)					SERC	GAL
364	VIS	VIS-2c	COM/OPS	Landscape Installation Timing - See VIS-2a	The planting must occur during the first optimal planting season following completion of site construction	Landscaping and irrigation installation	First optimal planting season following construction	5/1/2020				(Ref Only)					ARB	GAF

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5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO (Ref Only)	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party SERC	SERC Project Manager GAL
365	VIS	VIS-2d	COM/OPS	Landscaping Ready for Inspection - See VIS-2a	The project owner shall simultaneously notify the CPM and the city of Stanton within seven days after completing installation of the landscaping, that the landscaping is ready for inspection.	Notification that landscape is ready for inspection	Within seven days of completing the landscaping	5/9/2020		Not Started								
366	VIS	VIS-2e	COM/OPS	Landscaping Ready for Inspection - See VIS-2a	The project owner shall report landscaping maintenance activities, including replacement or dead or dying vegetation, for the previous year of operation in each ACR. The CPM shall have authority to require replacement planting of dead or dying vegetation through the life of the project	Status Report	Annual Compliance Report	12/31/2020		Not Started							SERC	DSR
367	VIS	VIS-3a	CONS	Site Lighting, Project Construction and Commissioning - Consistent with applicable worker safety regulations, the project owner shall ensure that lighting of on-site construction areas, and construction worker parking lots, minimizes potential night lighting impacts. (See Decision VIS-3 for specifications).	The project owner shall notify the CPM that the lighting is ready for inspection.	Notification that lighting is ready for inspection	Within seven calendar days after the first use of construction lighting	3/8/2019	3/4/2019	Completed	3/7/2019						ARB	GAL
368	VIS	VIS-3b	CONS	Lighting Modifications Corrections - See VIS-3a	If the CPM determines that modifications to the lighting are needed for any construction milestone, project owner shall correct the lighting and notify the CPM that modifications have been completed.	Lighting modifications/ corrections, notification to CPM	Within 14 calendar days of receiving notification	Conditional		Not Started							ARB	GAL
369	VIS	VIS-3c	CONS	Complaint Reporting - See VIS-3a	The project owner shall provide to the CPM a copy of any complaint reports and resolution form, including a schedule for implementing corrective measures to resolve the complaint.	Complaint report and resolution form, schedule for corrective measures	Within 48 hours of receiving a lighting complaint for any construction activity	Conditional		Not Started							SERC	GAL
370	VIS	VIS-3d	CONS	Summary of Complaints in MCR - See VIS-3a	The project owner shall report any lighting complaints and document their resolution in the monthly compliance report for the project, accompanied by copies of completed complaint report and resolution forms for that month.	Summary of complaints and resolution in MCR, including report and forms	Monthly	Monthly		In Progress							SERC	GAL
371	VIS	VIS-4a	PC/CONS	Lighting Management Plan, Project Operation - The project owner shall prepare and implement a comprehensive Lighting Management Plan. The comprehensive Lighting Management Plan shall be submitted to the CPM, and the Planning Director of the city of Stanton for simultaneous review and comment. Any comments on the plan from the city shall be provided to the CPM. The project owner shall not purchase or order any lighting fixtures or apparatus until written approval of the final plan is received from the CPM. Modifications to the Lighting Management Plan are prohibited without the CPM's approval. Consistent with applicable worker safety regulations, the project owner shall design, install, and maintain all permanent exterior lighting such that light sources are not directly visible from areas beyond the project site, glare is avoided, and night lighting impacts are minimized or avoided to the maximum extent feasible. All lighting fixtures shall be selected to achieve high energy efficiency for the facility. (See Decision VIS-4 for specifications).	The project owner shall submit the comprehensive Lighting Management Plan simultaneously to the Planning Director of the city of Stanton for review and comment and the CPM for review and approval. The project owner shall provide the CPM with a copy of the transmittal letters submitted to the city requesting their review of the Lighting Management Plan. The CPM shall deem the Lighting Management Plan acceptable to the city of Stanton if comments are not provided to the CPM within 45 calendar days of receipt of said plan.	Lighting Management Plan and transmittal letters to Planning Director of City of Stanton for review and comment	At least 90 calendar days before ordering any permanent lighting equipment for the project	12/3/2018		Completed		(Ref Only) Submit 6/4/2019		City of Stanton	11/26/18	11/27/18	POWER	GAL

	A	B	C	D	E	F	G	H	I	J	K	O	P	Q	R	S	T	U
1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)											Pre-Construction						
2	All Phases							6/30/2040				Construction						
3												Commissioning						
4				Revised 4/30/2019		Based on Final Staff Assessment						Operations						
5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager
372	VIS	VIS-4b	PC/CONS	Lighting Management Plan, Project Operation - The project owner shall prepare and implement a comprehensive Lighting Management Plan. The comprehensive Lighting Management Plan shall be submitted to the CPM, and the Planning Director of the city of Stanton for simultaneous review and comment. Any comments on the plan from the city shall be provided to the CPM. The project owner shall not purchase or order any lighting fixtures or apparatus until written approval of the final plan is received from the CPM. Modifications to the Lighting Management Plan are prohibited without the CPM's approval. Consistent with applicable worker safety regulations, the project owner shall design, install, and maintain all permanent exterior lighting such that light sources are not directly visible from areas beyond the project site, glare is avoided, and night lighting impacts are minimized or avoided to the maximum extent feasible. All lighting fixtures shall be selected to achieve high energy efficiency for the facility. (See Decision VIS-4 for specifications).	The project owner shall submit the comprehensive Lighting Management Plan simultaneously to the Planning Director of the city of Stanton for review and comment and the CPM for review and approval. The project owner shall provide the CPM with a copy of the transmittal letters submitted to the city requesting their review of the Lighting Management Plan. The CPM shall deem the Lighting Management Plan acceptable to the city of Stanton if comments are not provided to the CPM within 45 calendar days of receipt of said plan.	Provide CPM with transmittal letter submitted to city and the Lighting Management Plan	At least 90 calendar days before ordering any permanent lighting equipment for the project	12/3/2018	11/26/2018	Completed	11/27/2018	(Ref Only) Submit 6/4/2019						
373	VIS	VIS-4c	CONS/COM/OPS	Revised Lighting Plan - See VIS-4a	If the CPM determines that the plan requires revision, the project owner shall provide a plan with the specified revision(s) for review and approval by the CPM. A courtesy copy of the revised plan shall be provided to the Planning Director of the city of Stanton for review and comment and the CPM from review and approval. No work to implement the plan (e.g., purchasing of fixtures) shall begin until final plan approval is received from the CPM.	Revised Lighting Plan	No specific time frame	Conditional		Not started		(Ref Only)					POWER	GAL
374	VIS	VIS-4d	CONS/COM	Lighting Inspection Ready, Notification - See VIS-4a	The project owner shall notify the CPM that installation of permanent lighting for the project has been completed and that the lighting is ready for inspection.	Notification that lighting is ready for inspection	Prior to the start of commercial operation of the project	11/12/2020		Not Started							SERC	GAL
375	VIS	VIS-4e	COM/OPS	Changes to Lighting System - See VIS-4a	If the CPM notifies the project owner that modifications to the lighting system are required, within 30 days of receiving that notification, the project owner shall implement all specified changes and notify the CPM that the modified lighting system(s) is ready for inspection.	Changes to the lighting system	30 days after receiving the notification	Conditional		Not Started		(Ref Only)					SERC	GAL
376	VIS	VIS-4f	COM/OPS	Lighting System Complaint - See VIS-4a	Within 48 hours of receiving a complaint about permanent project lighting, the project owner shall provide to the CPM a copy of the complaint report and resolution form, including a schedule for implementing corrective measures to resolve the complaint	Notice to CPM	Within 48 hours of receiving a complaint permanent project lighting	Conditional		Not started		(Ref Only)					SERC	GAL
377	VIS	VIS-4g	COM/OPS	Status Report in ACR - Lighting System - See VIS-4a	Project owner shall report any complaints about permanent lighting and document their resolution in the ACR, accompanied by copies of completed complaint report and resolution forms for that year. The project owner shall not order any exterior lighting until receiving CPM approval of the lighting mitigation plan	Status Report	Annual Compliance Report	12/31/2020		Not Started		(Ref Only)					SERC	DSR
378	VIS	VIS-4h	COM/OPS	Pre-COD Inspection - Lighting System - See VIS-4a	Prior to COD, project owner shall notify CPM that installation of the lighting has been completed and is ready for inspection.	Notification to CPM	Prior to COD	11/12/2020		Not Started		(Ref Only)					SERC	GAL

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3												Construction						
4												Commissioning						
5												Operations						
6	Revised 4/30/2019																	
7	Based on Final Staff Assessment																	
8	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager
387	WASTE	WASTE-4a	PC	Construction and Demolition Environmental Resources Management Plan - The project owner shall prepare a Construction and Demolition (C & D) Environmental Resources Management and Recycling Plan for demolition and construction wastes generated and shall submit a copy of the plan to the Orange County's Public Works/Planning Department for review, and to the CPM for review and approval. See Decision WASTE-4 for specifications.	The project owner shall submit the C & D Environmental Resources Management and Recycling Plan to Orange County's Public Works Department for review and comment	Construction and Demolition Environmental Resources and Management Plan	30 days prior to the initiation of demolition activities at the site	12/3/2018		Completed				OCPW	11/1/2018	1/28/2019 (Approved by CPM. No Comments were received from OCPW)	JACOBS	GAF
388	WASTE	WASTE-4b	PC	Construction and Demolition Environmental Resources Management Plan - The project owner shall prepare a Construction and Demolition (C & D) Environmental Resources Management and Recycling Plan for demolition and construction wastes generated and shall submit a copy of the plan to the Orange County's Public Works/Planning Department for review, and to the CPM for review and approval. See Decision WASTE-4 for specifications.	The project owner shall submit the C & D Environmental Resources Management and Recycling Plan to the CPM for review and approval.	Construction and Demolition Environmental Resources and Management Plan	30 days prior to the initiation of demolition activities at the site	12/3/2018	11/1/2018	Completed	1/28/2019						JACOBS	GAL
389	WASTE	WASTE-4c	CONS	Waste Volumes Reported in MCR - See WASTE-4a	The project owner shall also document in each monthly compliance report (MCR) the actual volume of wastes generated and the waste management methods used during the year; provide a comparison of the actual waste generation and management methods used to those proposed in the original Construction and Demolition Waste Management Plan; and update the Construction and Demolition Waste Management Plan as necessary to address current waste generation and management practices.	Waste volumes and waste management methods in Monthly Compliance Reports	Monthly	Monthly		In Progress							ARB	GAL
390	WASTE	WASTE-5a	PC/CONS	Asbestos-Containing Materials - Prior to demolition of pipelines, buildings, and associated structures, the project owner shall survey for asbestos-containing material (ACM) and notify the CPM of the results. In the case of a need to remove such material, the project owner shall complete and submit a copy of a South Coast Air Quality Management District Notification of Demolition or Renovation Form to the CPM as related to asbestos and other materials.	Prior to demolition of pipelines, buildings, and associated structures, project owner shall survey for asbestos-containing material (ACM) and notify the CPM of the results	Notify CPM of ACM survey results	Prior to demolition of pipelines, buildings, and associated structures	12/6/2018	2/13/2019	Completed	2/22/2019	Asbestos Survey: 2/13/2019 Garage Demo Plan: 2/20/2019	Asbestos Survey: 2/14/2019 Garage Demo Plan: 2/25/2019				AEC	GAL
391	WASTE	WASTE-5b	PC/CONS	Asbestos-Containing Materials - Prior to demolition of pipelines, buildings, and associated structures, the project owner shall survey for asbestos-containing material (ACM) and notify the CPM of the results. In the case of a need to remove such material, the project owner shall complete and submit a copy of a South Coast Air Quality Management District Notification of Demolition or Renovation Form to the CPM as related to asbestos and other materials.	The project owner shall provide the Notification of Demolition or Renovation Form to the CPM for review.	Notification of Demolition or Renovation Form to CPM	No less than 60 days prior to commencement of structure demolition	12/6/2018	2/13/2019	Completed	2/22/2019						AEC	GAL

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1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)														Pre-Construction						
2	All Phases							6/30/2040							Construction						
3															Commissioning						
4				Revised 4/30/2019		Based on Final Staff Assessment									Operations						
5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager			
398	WASTE	WASTE-9	CONS/OPS	Unauthorized Release Response - The project owner shall ensure that all spills or releases of hazardous substances, materials, or waste are reported, cleaned up, and remediated as necessary, in accordance with all applicable federal, state, and local requirements.	The project owner shall document all unauthorized releases and spills of hazardous substances, materials, or wastes that occur on the project property or related pipeline and transmission corridors to the CPM. Information including the location of release; date and time of release; reason for release; volume released; amount of contaminated soil/material generated; how release was managed and material cleaned up; if the release was reported; to whom the release was reported; release corrective action and cleanup requirements placed by regulating agencies; level of cleanup achieved and actions taken to prevent a similar release or spill; and disposition of any hazardous wastes and/or contaminated soils and materials that may have been generated by the release.	Information about unauthorized release or spill	Within 48 hours of the date the release was discovered	3/1/2019 6/14/2019		Completed	3/7/2019 6/18/2019										
399	WORKER SAFETY	WORKER SAFETY-1a	PC	Construction H&S Program - Submit to the CPM the Project Construction Safety and Health Program containing the elements listed in this condition (See Decision WORKER SAFETY-1 for specification). The Personal Protective Equipment Program, the Exposure Monitoring Program, and the Injury and Illness Prevention Program shall be submitted to the CPM for review and approval concerning compliance of the program with all applicable safety orders. The Construction Emergency Action Plan and the Fire Prevention Plan shall be submitted to the Orange County Fire Authority for review and comment prior to submittal to the CPM for approval.	The project owner shall submit to the CPM for review and approval a copy of the Project Construction and Safety and Health Program.	Construction Health & Safety Program w/OCHA Comments CFPP and EAP	At least 30 days prior to start of construction	12/3/2018	12/3/2018	Completed	1/29/2019	1/16/19	2/4/2019				ARB	GAL			
400	WORKER SAFETY	WORKER SAFETY-1b	PC	Construction H&S Program - Submit to the CPM the Project Construction Safety and Health Program containing the elements listed in this condition (See Decision WORKER SAFETY-1 for specification). The Personal Protective Equipment Program, the Exposure Monitoring Program, and the Injury and Illness Prevention Program shall be submitted to the CPM for review and approval concerning compliance of the program with all applicable safety orders. The Construction Emergency Action Plan and the Fire Prevention Plan shall be submitted to the Orange County Fire Authority for review and comment prior to submittal to the CPM for approval.	The project owner shall provide to the CPM a copy of a letter from the Orange County Fire Authority stating the fire department's comments on the Construction Fire Prevention Plan and the Emergency Action Plan.	Construction Health & Safety Program w/OCHA Comments CFPP and EAP	At least 30 days prior to start of construction	12/3/2018	Original 12/3/2018; Revision 1/17/2019	Completed	N/A	1/16/19	2/4/2019	OCHA	12/3/2018	No response	ARB	GAL			
401	WORKER SAFETY	WORKER SAFETY-2a	COM/OPS	Operations H&S Program - The project owner shall submit to the CPM a copy of the Project Operations and Maintenance Safety and Health Program (See Decision WORKER SAFETY-2 for specifications). The Operation Injury and Illness Prevention Plan, Hazardous Materials Management Program, Emergency Action Plan, Fire Prevention Plan, Fire Protection System Impairment Program, and Personal Protective Equipment Program shall be submitted to the CPM for review and approval concerning compliance of the programs with all applicable safety orders. The Fire Prevention Plan, Fire Protection System Impairment Program, and the Emergency Action Plan shall also be submitted to the Orange County Fire Authority for review and comment.	The project owner shall submit to the CPM for approval a copy of the Project Operations and Maintenance Safety and Health Program.	Operations and Maintenance Safety and Health Program w/ comments of OCHA	At least 30 days prior to the start of first-fire or commissioning	1/11/2020		Not Started		1/16/19	2/4/2019				SERC	DSR			

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2	All Phases							6/30/2040				Construction						
3												Commissioning						
4				Revised 4/30/2019		Based on Final Staff Assessment						Operations						
5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party SERC	SERC Project Manager DSR
402	WORKER SAFETY	WORKER SAFETY-2b	COM/OPS	Operations H&S Program - The project owner shall submit to the CPM a copy of the Project Operations and Maintenance Safety and Health Program (See Decision WORKER SAFETY-2 for specifications). The Operation Injury and Illness Prevention Plan, Hazardous Materials Management Program, Emergency Action Plan, Fire Prevention Plan, Fire Protection System Impairment Program, and Personal Protective Equipment Program shall be submitted to the CPM for review and approval concerning compliance of the programs with all applicable safety orders. The Fire Prevention Plan, Fire Protection System Impairment Program, and the Emergency Action Plan shall also be submitted to the Orange County Fire Authority for review and comment.	The project owner shall provide a copy to the CPM of a letter from the Orange County Fire Authority stating the fire department's timely comments on the Operations Fire Prevention Plan, Fire Protection System Impairment Program, and Emergency Action Plan.	Operations and Maintenance Safety and Health Program w/ comments of OCFA	At least 30 days prior to the start of first-fire or commissioning	1/11/2020		Not Started		1/16/19	2/4/2019					
403	WORKER SAFETY	WORKER SAFETY-3a	PC	Construction Safety Supervisor - Provide a site Construction Safety Supervisor (CSS) who is qualified as specified in this condition (See Decision WORKER SAFETY-3 for specifications). The CSS shall perform the duties listed in this condition.	The project owner shall submit to the CPM the name and contact information for the Construction Safety Supervisor (CSS).	CSS Name/Contact	At least 30 days prior to the start of site mobilization	12/3/2018	11/20/2018	Completed	11/21/2018	1/16/2019	1/17/2019				ARB	GAL
404	WORKER SAFETY	WORKER SAFETY-3b	PC/CONS	Replacement CSS - See WORKERSAFETY-3a	The contact information of any replacement CSS shall be submitted to the CPM within one business day.	Replacement CSS Name/Contact	Within one business day	Conditional		Not started		conditional					ARB	GAL
405	WORKER SAFETY	WORKER SAFETY-3c	CONS	H&S Information Reported in MCR - See WORKERSAFETY-3a	The CSS shall submit health and safety information in the Monthly Compliance Report (See Decision WORKERSAFETY 3 Verification for specifications)	Health and safety information for MCR	Monthly	Monthly		In Progress		Monthly					ARB	GAL
406	WORKER SAFETY	WORKER SAFETY-4	PC	Agreement to Fund Safety Monitor - The project owner shall make payments to the Delegate Chief Building Official (DCBO) for the services of a Safety Monitor based upon a reasonable fee schedule to be negotiated between the project owner and the DCBO. Those services shall be in addition to other work performed by the DCBO. The Safety Monitor shall be selected from an independent company not affiliated with the DCBO and report directly to the DCBO and will be responsible for verifying that the Construction Safety Supervisor, as required in Condition of Certification WORKER SAFETY-3, implements all appropriate Cal/OSHA and Energy Commission safety requirements. The Safety Monitor shall conduct on-site (including linear facilities) safety inspections at intervals necessary to fulfill those responsibilities.	The project owner shall provide proof of its agreement to fund the Safety Monitor services to the CPM for review and approval.	Proof of Agreement to fund Safety Monitor	At least 60 days prior to the start of construction	11/3/2018	11/1/2018	Completed	1/18/2019	1/25/2019	1/25/2019				SERC	GAL
407	WORKER SAFETY	WORKER SAFETY-5a	PC	Automatic External Defibrillator - A portable automatic external defibrillator (AED) shall be located on site during demolition, construction, and operations and a training program shall be implemented, as described in this condition (See Decision WORKER SAFETY-6). The training program shall be submitted to the CPM for review and approval.	Submit to the CPM proof that a portable AED is available on site	Proof of AED	At least 30 days prior to the start of site mobilization	12/3/2018	11/15/2018	Completed	12/11/2018	1/22/2019 (Ref Only)	1/23/2019				ARB	GAL
408	WORKER SAFETY	WORKER SAFETY-5b	PC	Automatic External Defibrillator - A portable automatic external defibrillator (AED) shall be located on site during demolition, construction, and operations and a training program shall be implemented, as described in this condition (See Decision WORKER SAFETY-5). The training program shall be submitted to the CPM for review and approval.	Submit to the CPM a copy of the training and maintenance program for review and approval.	Training Program	At least 30 days prior to the start of site mobilization	12/3/2018	11/15/2018	Completed	12/11/2018	1/22/2019 (Ref Only)	1/23/2019				ARB	GAL
409	WORKER SAFETY	WORKER SAFETY-6a	PC	Emergency Access Plan - The project owner shall prepare an Emergency Access Plan that shows a secondary emergency access to the Stanton site where the specifications of the roadway will comply with the Stanton Municipal Code and the 2016 (or latest edition) California Fire Code. A secondary access must be maintained to the standards listed above for the life of the project.	The project owner shall submit the Emergency Access Plan showing the secondary emergency access to the Orange County Fire Authority for review and timely comment	Emergency Access Plan	At least 60 days prior to the start of construction, or within a time frame approved by the CPM	12/6/2018	11/2/2018	Completed	11/15/2018	1/18/2019 (Ref Only)	1/18/2019				Jacobs	GAL
410	WORKER SAFETY	WORKER SAFETY-6b	PC	Emergency Access Plan - The project owner shall prepare an Emergency Access Plan that shows a secondary emergency access to the Stanton site where the specifications of the roadway will comply with the Stanton Municipal Code and the 2016 (or latest edition) California Fire Code. A secondary access must be maintained to the standards listed above for the life of the project.	The project owner shall submit the Emergency Access Plan showing the secondary emergency access to the CPM for review and approval.	Emergency Access Plan	At least 60 days prior to the start of construction, or within a time frame approved by the CPM	12/6/2018	11/2/2018	Completed	11/15/2018	1/18/2019 (Ref Only)	1/18/2019				Jacobs	GAL

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2	All Phases							6/30/2040				Construction						
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5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager
411	WORKER SAFETY	WORKER SAFETY-6c	PC/CONS	Emergency Access Plan, Revised - See WORKERSAFETY-6a The project owner shall adhere to all applicable provisions of the latest version of NFPA 850: Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations, as the minimum level of fire protection. The project owner shall interpret and adhere to all applicable NFPA 850 recommended provisions and actions stating "should" as "shall." in any situations where both NFPA 850 and the state or local LORS have application, the more restrictive shall apply.	If a change to the secondary access is proposed by the project owner, the project owner must submit the proposed change, with an updated Emergency Access Plan that shows the new proposed location/ arrangement for the secondary emergency access road, to the Orange County Fire Authority for review and timely comment	Emergency Access Plan showing the secondary emergency access road	90 days before a change to the secondary access would occur	Conditional				1/18/2019 (Ref Only)	1/18/2019				JACOBS	GAL
412	WORKER SAFETY	WORKER SAFETY-6d	PC/CONS	Emergency Access Plan, Revised - See WORKERSAFETY-6a The project owner shall adhere to all applicable provisions of the latest version of NFPA 850: Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations, as the minimum level of fire protection. The project owner shall interpret and adhere to all applicable NFPA 850 recommended provisions and actions stating "should" as "shall." in any situations where both NFPA 850 and the state or local LORS have application, the more restrictive shall apply.	If a change to the secondary access is proposed by the project owner, the project owner must submit the proposed change, with an updated Emergency Access Plan that shows the new proposed location/ arrangement for the secondary emergency access road, to the CPM for review and approval.	Emergency Access Plan showing the secondary emergency access road	91 days before a change to the secondary access would occur	Conditional		Not started		1/18/2019 (Ref Only)	1/18/2019				JACOBS	GAL
413	WORKER SAFETY	WORKER SAFETY-7a	PC/CONS	Fire Protection System Specifications - The project owner shall adhere to all applicable provisions of the latest version of NFPA 850: Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations, as the minimum level of fire protection. The project owner shall interpret and adhere to all applicable NFPA 850 recommended provisions and actions stating "should" as "shall." in any situations where both NFPA 850 and the state or local LORS have application, the more restrictive shall apply.	The project owner shall ensure that the project adheres to all applicable provisions of NFPA 850. The project owner shall provide all fire protection system specifications and drawings to the Orange County Fire Authority for review and comment	Fire protection system specifications and drawings to the OCFA	At least 60 days prior to the start of construction of the fire protection system	7/28/2019		In Progress				OCFA	2/4/19		POWER	TAT
414	WORKER SAFETY	WORKER SAFETY-7b	PC/CONS	Fire Protection System Specifications - The project owner shall adhere to all applicable provisions of the latest version of NFPA 850: Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations, as the minimum level of fire protection. The project owner shall interpret and adhere to all applicable NFPA 850 recommended provisions and actions stating "should" as "shall." in any situations where both NFPA 850 and the state or local LORS have application, the more restrictive shall apply.	The project owner shall ensure that the project adheres to all applicable provisions of NFPA 850. The project owner shall provide all fire protection system specifications and drawings to the CPM for review and approval	Fire protection system specifications and drawings to the CPM	At least 60 days prior to the start of construction of the fire protection system	12/6/2018	2/6/2019 Additional Submittals made on 4/22/19	In Progress							Power	GAL
415	WORKER SAFETY	WORKER SAFETY-7c	PC/CONS	Fire Protection System Specifications - The project owner shall adhere to all applicable provisions of the latest version of NFPA 850: Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations, as the minimum level of fire protection. The project owner shall interpret and adhere to all applicable NFPA 850 recommended provisions and actions stating "should" as "shall." in any situations where both NFPA 850 and the state or local LORS have application, the more restrictive shall apply.	The project owner shall ensure that the project adheres to all applicable provisions of NFPA 850. The project owner shall provide all fire protection system specifications and drawings to the DCBO for plan check approval and construction inspection.	Fire protection system specifications and drawings to the DCBO	At least 60 days prior to the start of construction of the fire protection system	7/28/2019		In Progress		7-1.0: 2/4/19 7-2.0: 3/29/19 7-3.0: 4/18/19 7-4.0: 4/18/19 7-5.0: 4/18/19 7-6.0: 5/1/19	7-1.0: 5/14/19 7-2.0: 5/15/19 7-3.0: 5/16/19 7-4.0: 7-5.0: 7-6.0: 5/14/19				Power	GAL
416	WORKER SAFETY	WORKER SAFETY-8a	PC/CONS	UL 9540 Certification - The project owner shall ensure that the lithium ion battery energy storage system has UL Standard for Safety for Energy Storage Systems and Equipment, UL 9540 certification. The project owner shall submit the certification along with the fire protection drawings and specifications for the ESS to the Orange County Fire Authority for review and comment and to the CPM for review and approval. The project owner shall also collaborate with the Orange County Fire Authority to assist the development of standard operating procedures for first responders to implement when confronting a fire occurring within the lithium ion ESS located on site.	The project owner shall provide UL 9540 design certification for the ESS or a copy of the contract with UL (or authorized UL agent) to perform a field certification during construction of the ESS to obtain UL 9540 certification to the CPM	Copy of UL 9540 design certification for the ESS, or copy of the contract with UL to perform field certification during construction of the ESS to obtain UL 0540 certification to the CPM.	At least 60 days prior to the start of construction of BESS	10/3/2019	11/1/2018	Completed	11/13/2018						SERC	GAL

[illegible]

	A	B	C	D	E	F	G	H	I	J	K	O	P	Q	R	S	T	U
1	Stanton Energy Reliability Center Compliance Matrix (16-AFC-01)											Pre- Construction						
2	All Phases							6/30/2040				Construction						
3												Commissioning						
4				Revised 4/30/2019		Based on Final Staff Assessment						Operations						
5	Technical Resource	Cond. #	Phase	Description	Verification/Action/Submittal	Submittal	Date Submittal is Required	Due Date	Date Submitted to CPM	Compliance Status for CPM (Not started, in progress, completed (with date))	Date Approved by CPM	Date Submitted to CBO	Date Approved by CBO	Other Agencies to submit to?	Date Submitted to Other agencies	Date Approved by Other Agencies	Responsible Party	SERC Project Manager
422	WORKER SAFETY	WORKER SAFETY-8c.2	PC/CONS	UL 9540 Certification - The project owner shall ensure that the lithium ion battery energy storage system has UL Standard for Safety for Energy Storage Systems and Equipment, UL 9540 certification. The project owner shall submit the certification along with the fire protection drawings and specifications for the ESS to the Orange County Fire Authority for review and comment and to the CPM for review and approval. The project owner shall also collaborate with the Orange County Fire Authority to assist the development of standard operating procedures for first responders to implement when confronting a fire occurring within the lithium ion ESS located on site.	The project owner shall submit a copy of letter from UL stating that the design drawings for the ESS have been reviewed and meet UL 9540 requirements for performing a field certification to the CBO	Letter from UL to CBO	At least 60 days prior to the start of construction of the BESS	11/1/2019		Not Started		(Ref only)						
423	WORKER SAFETY	WORKER SAFETY-8e	CONS	Letter to OCFA - See WORKERSAFETY-8a	The project owner shall provide a copy of a letter sent from the project owner to the OCFA offering collaboration and assistance in developing standard operating procedures for first responders to deal with any lithium ion battery fires occurring at the project site.	Copy of letter to OCFA offering to develop procedures	At least 60 days prior to commissioning of BESS	1/30/2020									SERC	GAL
424	WORKER SAFETY	WORKER SAFETY-8e.1	CONS	Letter to OCFA - See WORKERSAFETY-8a	The project owner shall provide a copy of a letter sent from the project owner to the OCFA offering collaboration and assistance in developing standard operating procedures for first responders to deal with any lithium ion battery fires occurring at the project site to the CBO for reference only.	Copy of letter to OCFA offering to develop procedures, to CBO for reference only.	At least 60 days prior to commissioning of BESS	1/30/2020				(Ref only)					SERC	GAL
425	WORKER SAFETY	WORKER SAFETY-8f	CONS	Final UL Certification of ESS - See WORKERSAFETY-8a	The project owner shall provide a copy of the final completed UL 9540 certification of the ESS to the CPM	Final UL Certification of ESS to CPM.	Prior to the start of BESS commissioning	4/14/2020									SERC	GAL
426	WORKER SAFETY	WORKER SAFETY-8f.1	CONS	Final UL Certification of ESS - See WORKERSAFETY-8a	The project owner shall provide a copy of the final completed UL 9540 certification of the ESS to the CBO.	Final UL Certification of ESS to CBO for reference only.	Prior to the start of BESS commissioning	4/14/2020		Not Started		(Ref only)					SERC	GAL

Attachment 3 – Air Quality

2600 Michelson Drive, Suite 500
Irvine, CA 92612
United States
www.jacobs.com

Subject **Stanton Energy Reliability Center (16-AFC-1C)**
 Air Quality Monthly Compliance Report
 September 2019

Project Name Stanton Energy Reliability Center (SERC) (16-AFC-1C)

Attention Tim Bofman, SERC, LLC

From Hong Zhuang, Jacobs
 SERC CEC Designated Air Quality Construction Mitigation Manager

Date October 4, 2019

Copies to Mike Malsy, Wellhead
 John Kimble, Wellhead
 Sharon Stureman, SERC, LLC
 Doug Davy, Jacobs
 Karen Parker, Jacobs

This Monthly Compliance Report (MCR) summarizes the activities conducted at the Stanton Energy Reliability Center (SERC) in September 2019 to demonstrate compliance with California Energy Commission Conditions of Certification (COCs) for air quality AQ-SC3, AQ-SC4, and AQ-SC5. The required documentation for these COCs is provided in the sections below.

AQ-SC3 Construction Fugitive Dust Control

AQ-SC3 requires control measures to mitigate fugitive dust created by project construction activities. AQ-SC3 also requires that the MCR include the following:

- A summary of all actions taken to maintain compliance with this condition (including sweeping log entries)
- Copies of any complaints filed with the South Coast Air Quality Management District (SCAQMD or District)
- Any other documentation deemed necessary by the Compliance Project Manager (CPM), District, or Air Quality Construction Mitigation Manager (AQCM) to verify compliance with this condition. Such information may be provided in electronic format or on disk media at the project owner's discretion

During construction in September 2019, fugitive dust was controlled primarily by maintaining vehicle speeds of 10 miles per hour or less on unpaved areas and applying water during soil disturbing and demolition activities. Signs have been posted at the two entrances to the construction site, limiting vehicle speeds to 10 miles per hour. To verify compliance with AQ-SC3, a fugitive dust control

checklist was completed each day. The daily field checklists for fugitive dust control and the sweeping logs are provided in Attachment A and summarized in Table 1 below.

Table 1. Fugitive Dust Control Measures

AQ-SC3

Implementation Measure	Out of Compliance-Trigger	In Compliance-Trigger ^a	Results During Compliance Period
All main access roads onsite are paved or stabilized	No – Dust plumes originating from access roads	Yes – No dust plumes originating from access roads	Yes – In compliance
All unpaved roads of the construction site are watered as frequently as necessary to prevent dust plume	No – Dust plumes originating from unpaved roads	Yes – No dust plumes originating from unpaved roads	Yes – In compliance
All disturbed areas of the construction site are watered as frequently as necessary to prevent dust plume	No – Dust plumes originating from disturbed areas	Yes – No dust plumes originating from disturbed areas	Yes – In compliance
Maximum speed limit of 10 miles per hour on unpaved surfaces	No – Vehicles exceeding 10 miles per hour on unpaved areas	Yes – vehicles travel 10 miles per hour or less on unpaved areas	Yes – In compliance
Visible speed limit signs posted at construction site entrances	No – No signs posted	Yes – Signs posted	Yes – In compliance. Ten miles per hour speed limit is posted.
Wheel inspection or wash stations in place	No – Track-out into roadways not managed	Yes – No track-out observed or track-outs were cleaned up immediately.	Yes – In compliance. Additional measures were implemented to clean up track-out. Tire cleaning to be conducted if needed.
At least 20-foot-long gravel ramps at wheel inspection / wash stations	No – 20-foot-long gravel ramps not present	Yes – 20-foot-long gravel ramps present	Not applicable (NA) – Shaker plates installed. Gravel ramps are installed as needed.
All unpaved exits are graveled or treated	No – Dirt entering roadways	Yes – No dirt entering roadways	Yes – In compliance. Shaker plates were installed at the unpaved exit. Gravel ramp is added.
Entrance limited to treated roadways	No – Entrance not limited	Yes – Entrance limited	Yes – In compliance
Storm Water Pollution Prevention Plan (SWPPP) control measures implemented	No – Contaminated storm water runoff found in roadways	Yes – No contaminated storm water runoff found in roadways	Yes – In compliance. Best Management Practices (BMPs) are installed.
Paved roads within the site swept as needed	No – Dirt / debris accumulated	Yes – Site clean	Yes – In compliance
At least 500 feet of any paved roadway exiting site swept as needed	No – visible dirt within 500 feet of roadway entrance	Yes – No dirt observed	Yes – In compliance
Soil storage piles and disturbed areas inactive for more than 10 days are covered or treated	No – Dust plumes originating from storage piles and disturbed areas	Yes – No dust plumes from storage piles and disturbed areas	Yes – In compliance
Bulk material transport offsite is covered or treated and loaded with at least two feet of freeboard	No – Visible emissions from bulk material transport	Yes – No visible emissions from bulk material transport	Yes – In compliance
Wind erosion control techniques used for disturbed, unstabilized construction areas	No – Visible dust from disturbed, unstabilized construction Areas	Yes – No visible dust from disturbed, unstabilized construction areas	Yes – In compliance. Wind breaks installed as needed

^aSite is noted as in compliance if the activity did not occur during the compliance period.

AQ-SC4 Dust Plume Response Requirement

AQ-SC4 requires that all construction activities be monitored for visible dust plumes. This condition also requires that additional dust mitigation measures be implemented if visible dust plumes that have the potential to be transported off the project site and within 100 feet upwind of any regularly occupied structure are observed. AQ-SC4 requires that the MCR include the following:

- A summary of all actions taken to maintain compliance with this condition
- Copies of any complaints filed with the District in relation to project construction; and any other documentation deemed necessary by the CPM and AQCMM to verify compliance with this condition. Such information may be provided via electronic format or disk media at the project owner's discretion.

Visible dust plumes with the potential to be transported offsite were not observed in September 2019. No air quality-related complaints were received during this reporting period.

AQ-SC5 Diesel-Fueled Engine Control

AQ-SC5 requires that all off-road diesel construction equipment used on the project be powered by the cleanest engines available that also comply with California Air Resources Board's (CARB) Regulation for In-Use Off-Road Diesel Fleets. AQ-SC5 requires that the MCR include the following:

- A summary of all actions taken to control diesel construction related emissions
- A list of all heavy equipment used on site during that month, including the owner of the equipment and a letter from each owner indicating that the equipment has been properly maintained
- Any other documentation deemed necessary by the CPM and AQCMM to verify compliance with this condition. Such information may be provided via electronic format or disk media at the project owner's discretion.

The following off-road diesel equipment was used at the site in September 2019 and tagged to indicate compliance with AQ-SC5:

Manufacturer	Equipment Name	EIN
CASE	580 SN - BackHoe	BX3T54
CAT	Rough Terrain Forklift	SF7A56
CAT	259D Skid Steer Loader	NG3U86
CAT	XQ200 Generator	166565
Deere	210l Skip Loader	WK9J63
Genie	5K Reach Fork	JW5N58
Grove	GRT880 Crane	XG7V58
JCB	507-42	RV7M68
JLG	60' Boom Lift	LR7P73
JLG	6042 T4F 6K Reach Forklift	HN6U33
JLG	660SJ Manlift	WP9E86
Manitowoc	Manitowoc 999	TX5P83
Xtreme	XR1255 Forklift	VC6G63
Xtreme	XR2045 Forklift	VT6H48

Attachment B provides a table summarizing information about the engines, including the CARB Engine Identification Number (EIN), tier, and the dates the equipment was used on the project site. A SOILMEC R-930 crane equipped with a Tier 2 engine arrived at the site during this reporting period. The equipment was identified as the necessary tool to efficiently perform the construction activities. A good faith effort was made to identify and procure higher tier equipment. The vender's correspondence regarding the request for a Tier 4, Tier 3, or retrofit options indicated that a higher tier engine or retrofit controls are not available for the requested type and size of the equipment, and that the highest emission tier of the equipment is Tier 2. Documentation of the correspondence is included in Attachment B. Attachment B also contains the AQ-SC5 daily field checklists for off-road diesel engines and letters from the equipment owners indicating the equipment has been properly maintained.

Attachment A
Documentation of AQ-SC3 Compliance

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.03 17:02:26
+07'00'

Date: 9/3/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	N/A	No bulk materials received today
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

* The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Use of blower devices is expressly forbidden.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.04 15:57:33
+07'00'

Date: 9/4/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.05 16:20:29
+0700

Date: 9/5/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Jon Kimble

Form: SERC-CAQ-001

AQCMM or Delegate signature: Jon Kimble Digitally signed by Jon Kimble
Date: 2019.09.06 16:06:21
+0700

Date: September 6, 2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	N/A	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.11 07:32:29
+07'00'

Date: 9/9/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	Silt fencing being moved and staked as necessary for crane operations.
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy
 AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.11 07:34:51
+0700
 Date: 9/10/2019

Form: SERC-CAQ-001

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	Silt fencing under repair during crane operations.
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.16 16:20:01
+07'00'

Date: 9/11/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.16 16:22:29
+07'00'

Date: 9/12/2019

Form: SERC-CAQ-001

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	Replaced silt fencing with fiber roll material at fencing impacted by crane operations.
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

* The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Use of blower devices is expressly forbidden.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.16 16:23:45
+0700

Date: 9/13/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

* The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Use of blower devices is expressly forbidden.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.16 16:24:56
+07'00'

Date: 9/16/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.19 16:14:20
+07'00'

Date: 9/17/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.19 16:19:15
+07'00'

Date: 9/18/2019

Form: SERC-CAQ-001

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.19 16:20:10
+07'00'

Date: 9/19/2019

Form: SERC-CAQ-001

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.23 18:17:00
+07'00'

Date: 9/20/2019

Form: SERC-CAQ-001

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.23 18:17:29
+0700

Date: 9/23/2019

Form: SERC-CAQ-001

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.30 15:04:52
+0700

Date: 9/24/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.30 15:05:55
+0700

Date: 9/25/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.30 15:06:43
+0700

Date: 9/26/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.30 15:07:10
+07'00'

Date: 9/27/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-001

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.10.01 17:48:59
+0700

Date: 9/30/2019

Construction Fugitive Dust Control (AQ-SC3) Checklist Item	Response (yes/no)	If no, describe corrective action required and/or in progress
Are all unpaved roads and disturbed areas watered as frequently as necessary?	Y	
Are speed limit signs posted at the main entrances?	Y	
Are vehicle tires inspected and washed as necessary? Are gravel ramps installed at tire washing station?	Y	
Are construction equipment vehicle tires inspected and washed as necessary before entering paved road?	Y	
Are unpaved exits graveled or treated to prevent track-out?	Y	
Are equipment and vehicles using designated onsite roads?	Y	
Are onsite paved roads swept at least twice daily, and paved public roadways within 500 feet of exits swept as needed?*	Y	
Are Storm Water Pollution Prevention Plan (SWPPP) sandbags or other erosion control measures in place?	Y	
Are all soil piles and disturbed areas that are inactive for longer than 10 days covered or treated with dust suppressant compounds?	Y	
Are trucks carrying bulk materials covered and/or sufficiently wetted and loaded to achieve at least 2 feet of freeboard prior to leaving the project site?	Y	
Are wind erosion control techniques (such as windbreaks, water, chemical suppressants, etc.) used on construction areas that may be disturbed?	Y	
Are dust plumes visible with the potential to be transported (1) off the project site, (2) 200 feet beyond the centerline of the construction of linear facilities, or (3) within 100 feet upwind of any regularly occupied structures not owned by the project owner? If yes, implement the dust plume response outlined in AQ-SC4 and complete the Visible Dust Plume Response Form (Form SERC-CAQ-003).	N	

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ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sep 2019</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
9-3-19	705				—	<i>[Signature]</i>	
9-3-19	715				—	<i>[Signature]</i>	
9-3-19	730				—	<i>[Signature]</i>	
9-3-19	745				—	<i>[Signature]</i>	
9-3-19	805				—	<i>[Signature]</i>	
9-3-19	815				—	<i>[Signature]</i>	
9-3-19	830				—	<i>[Signature]</i>	
9-3-19	845				—	<i>[Signature]</i>	
9-3-19	905				—	<i>[Signature]</i>	
9-3-19	915				—	<i>[Signature]</i>	
9-3-19	930				—	<i>[Signature]</i>	
9-3-19	945				—	<i>[Signature]</i>	
9-3-19	1005				—	<i>[Signature]</i>	
9-3-19	1015				—	<i>[Signature]</i>	
9-3-19	1030				—	<i>[Signature]</i>	
9-3-19	1045				—	<i>[Signature]</i>	
9-3-19	1105				—	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>5-Sep-2019</i>		Sweeping Area Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9.4.19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.4.19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
9-5-19	700				—	<i>[Signature]</i>	
9-5-19	715				—	<i>[Signature]</i>	
9-5-19	730				—	<i>[Signature]</i>	
9-5-19	745				—	<i>[Signature]</i>	
9-5-19	800				—	<i>[Signature]</i>	
9-5-19	815				—	<i>[Signature]</i>	
9-5-19	830				—	<i>[Signature]</i>	
9-5-19	845				—	<i>[Signature]</i>	
9-5-19	900				—	<i>[Signature]</i>	
9-5-19	915				—	<i>[Signature]</i>	
9-5-19	930				—	<i>[Signature]</i>	
9-5-19	945				—	<i>[Signature]</i>	
9-5-19	1000				—	<i>[Signature]</i>	
9-5-19	1015				—	<i>[Signature]</i>	
9-5-19	1030				—	<i>[Signature]</i>	
9-5-19	1045				—	<i>[Signature]</i>	
9-5-19	1100				—	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
9-6-19	700				—	<i>[Signature]</i>	
9-6-19	715				—	<i>[Signature]</i>	
9-6-19	730				—	<i>[Signature]</i>	
9-6-19	745				—	<i>[Signature]</i>	
9-6-19	800				—	<i>[Signature]</i>	
9-6-19	815				—	<i>[Signature]</i>	
9-6-19	830				—	<i>[Signature]</i>	
9-6-19	845				—	<i>[Signature]</i>	
9-6-19	900				—	<i>[Signature]</i>	
9-6-19	915				—	<i>[Signature]</i>	
9-6-19	930				—	<i>[Signature]</i>	
9-6-19	945				—	<i>[Signature]</i>	
9-6-19	1000				—	<i>[Signature]</i>	
9-6-19	1015				—	<i>[Signature]</i>	
9-6-19	1030				—	<i>[Signature]</i>	
9-6-19	1045				—	<i>[Signature]</i>	
9-6-19	1100				—	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9.9.19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.9.19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9-9-19</i>	<i>1115</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9-9-19</i>	<i>1130</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9-9-19</i>	<i>1215</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9-9-19</i>	<i>1230</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9-9-19</i>	<i>1245</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9-9-19</i>	<i>100</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9-9-19</i>	<i>115</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9-9-19</i>	<i>130</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9-9-19</i>	<i>145</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9-9-19</i>	<i>200</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9-9-19</i>	<i>215</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9-9-19</i>	<i>230</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9-9-19</i>	<i>245</i>				<i>_____</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9.10.19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.10.19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year:		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
9.11.19	700				—	<i>[Signature]</i>	
9.11.19	715				—	<i>[Signature]</i>	
9.11.19	730				—	<i>[Signature]</i>	
9.11.19	745				—	<i>[Signature]</i>	
9.11.19	800				—	<i>[Signature]</i>	
9.11.19	815				—	<i>[Signature]</i>	
9.11.19	830				—	<i>[Signature]</i>	
9.11.19	845				—	<i>[Signature]</i>	
9.11.19	900				—	<i>[Signature]</i>	
9.11.19	915				—	<i>[Signature]</i>	
9.11.19	930				—	<i>[Signature]</i>	
9.11.19	945				—	<i>[Signature]</i>	
9.11.19	1000				—	<i>[Signature]</i>	
9.11.19	1015				—	<i>[Signature]</i>	
9.11.19	1030				—	<i>[Signature]</i>	
9.11.19	1045				—	<i>[Signature]</i>	
9.11.19	1100				—	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year:		Sweeping Area Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
9.11.19	1115				—	<i>[Signature]</i>	
9.11.19	1130				—	<i>[Signature]</i>	
9.11.19	1215				—	<i>[Signature]</i>	
9.11.19	1230				—	<i>[Signature]</i>	
9.11.19	1245				—	<i>[Signature]</i>	
9.11.19	100				—	<i>[Signature]</i>	
9.11.19	115				—	<i>[Signature]</i>	
9.11.19	130				—	<i>[Signature]</i>	
9.11.19	145				—	<i>[Signature]</i>	
9.11.19	200				—	<i>[Signature]</i>	
9.11.19	215				—	<i>[Signature]</i>	
9.11.19	230				—	<i>[Signature]</i>	
9.11.19	245				—	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year:		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
9.12.19	700				—	<i>[Signature]</i>	
9.12.19	715				—	<i>[Signature]</i>	
9.12.19	730				—	<i>[Signature]</i>	
9.12.19	745				—	<i>[Signature]</i>	
9.12.19	800				—	<i>[Signature]</i>	
9.12.19	815				—	<i>[Signature]</i>	
9.12.19	830				—	<i>[Signature]</i>	
9.12.19	845				—	<i>[Signature]</i>	
9.12.19	900				—	<i>[Signature]</i>	
9.12.19	915				—	<i>[Signature]</i>	
9.12.19	930				—	<i>[Signature]</i>	
9.12.19	945				—	<i>[Signature]</i>	
9.12.19	1000				—	<i>[Signature]</i>	
9.12.19	1015				—	<i>[Signature]</i>	
9.12.19	1030				—	<i>[Signature]</i>	
9.12.19	1045				—	<i>[Signature]</i>	
9.12.19	1100				—	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9.13.19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.13.19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
7-16-19	760				—	<i>[Signature]</i>	
7-16-19	715				—	<i>[Signature]</i>	
7-16-19	730				—	<i>[Signature]</i>	
7-16-19	745				—	<i>[Signature]</i>	
7-16-19	800				—	<i>[Signature]</i>	
7-16-19	815				—	<i>[Signature]</i>	
7-16-19	830				—	<i>[Signature]</i>	
7-16-19	845				—	<i>[Signature]</i>	
7-16-19	900				—	<i>[Signature]</i>	
7-16-19	915				—	<i>[Signature]</i>	
7-16-19	930				—	<i>[Signature]</i>	
7-16-19	945				—	<i>[Signature]</i>	
7-16-19	1000				—	<i>[Signature]</i>	
7-16-19	1015				—	<i>[Signature]</i>	
7-16-19	1030				—	<i>[Signature]</i>	
7-16-19	1045				—	<i>[Signature]</i>	
7-16-19	1100				—	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9-17-19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-17-19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9.17.19</i>	<i>1115</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.17.19</i>	<i>1130</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.17.19</i>	<i>1215</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.17.19</i>	<i>1230</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.17.19</i>	<i>1245</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.17.19</i>	<i>100</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.17.19</i>	<i>115</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.17.19</i>	<i>130</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.17.19</i>	<i>145</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.17.19</i>	<i>200</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.17.19</i>	<i>215</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.17.19</i>	<i>230</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.17.19</i>	<i>245</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9-18-19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-18-19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>2019 Sept</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9-19-19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-19-19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9-20-19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-20-19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9-23-19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-23-19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9-24-19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-24-19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

[illegible]

1714 347 8308 Neda

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9-25-19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-25-19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9.26.19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9.26.19</i>	<i>1115</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>1130</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>1215</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>1230</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>1245</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>100</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>115</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>130</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>145</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>200</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>215</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>230</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>	<i>245</i>				<i>_____</i>	<i>[Signature]</i>	
<i>9.26.19</i>							
<i>9.26.19</i>							
<i>9.26.19</i>							
<i>9.26.19</i>							

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9-27-19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-27-19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	



Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: <i>Sept 2019</i>		Sweeping Area Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
<i>9-30-19</i>	<i>700</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>715</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>730</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>745</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>800</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>815</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>830</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>845</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>900</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>915</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>930</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>945</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>1000</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>1015</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>1030</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>1045</i>				<i>—</i>	<i>[Signature]</i>	
<i>9-30-19</i>	<i>1100</i>				<i>—</i>	<i>[Signature]</i>	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year:		Sweeping Area Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
9-30-19	1115				—		
9-30-19	1130				—		
9-30-19	1215				—		
9-30-19	1230				—		
9-30-19	1245				—		
9-30-19	100				—		
9-30-19	115				—		
9-30-19	130				—		
9-30-19	145				—		
9-30-19	200				—		
9-30-19	215				—		
9-30-19	230				—		
9-30-19	245				—		

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

Month/Year: SEPTEMBER 19		Sweeping Area (Check if Swept)				Operator Signature	Notes
Date	Time	Onsite	Fern	Pacific	Dale		
9-3-19	1:45 pm		✓	✓		Richard Kinnel	
9-4-19	1:45 pm		✓	✓		Richard Kinnel	
9-5-19	1:20 pm		✓	✓		Richard Kinnel	
9-6-19	2:05 pm		✓	✓		Richard Kinnel	
9-8-19	1:30 pm		✓	✓		Richard Kinnel	
9-9-19	1:29 pm		✓	✓		Richard Kinnel	
9-10-19	1:45 pm		✓	✓		Richard Kinnel	
9-11-19	1:45 pm		✓	✓		Richard Kinnel	
9-12-19	1:30 pm		✓	✓		Richard Kinnel	
9-16-19	2:05 pm		✓	✓		Richard Kinnel	
9-17-19	1:35 pm		✓	✓		Richard Kinnel	
9-18-19	1:50 pm		✓	✓		Richard Kinnel	
9-19-19	1:00 pm		✓	✓		Richard Kinnel	
9-20-19	1:45 pm		✓	✓		Richard Kinnel	
9-23-19	1:45 pm		✓	✓		Richard Kinnel	
9-24-19	1:45 pm		✓	✓		Richard Kinnel	
9-25-19	1:50 pm		✓	✓		Richard Kinnel	

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project (16-AFC-01C)

Sweeping Log

[illegible]

Appendix B Documentation of AQ-SC5 Compliance

SERC Offroad Diesel Equipment Inventory September 2019

				Equipment						Engine										
Date Arrived	Date Removed	CARB ID 6 digit [EIN]	SERC ID	Manufacturer	Model/Description	Model Year	Serial Number	Owner	Renter	Manufacturer	Engine Family	Engine Model	Displacement (L)	Model Year	Serial Number	Diesel (hp)	Tier	Engine Certification on File	Compliance Tag	Notes
2/4/2019	onsite	VC6G63	SERC_001	Xtreme	XR1255 Forklift	2016	XR1255031693102	ARB	N/A	FPT Industrial S.P.A	FFPXK03.4FSD	854E-E34TA	3.4	2015	JU82679-L025417	122	T4	u-r-015-0283	Green tag issued 02/04/2019	EO not available. Tier 4 verified based in engine specs.
2/20/2019	3/21/2019	NA	SERC_002	Multiquip	DCA70SSIU4F - Generator	2015	NA	United Rentals	ARB	Isuzu	JCEXL04.5AAJ	BR-4JJ1x	2.9	2015	74402993	95.2	T4	NA	Green tag issued 02/19/2019	
2/20/2019	onsite	BX3T54	SERC_003	CASE	580 SN - BackHoe	2014	JJ6N585NLECT05659	D+S BACKHOE SERVICE	N/A	FPT INDUSTRIAL	FFPX034DD	FSHFL4ADD	207 CU IN	2014	215914	97	T4	u-r-015-0283	Green tag issued 02/19/2019	
2/20/2019	4/25/2019	UG9N98	SERC_005	CAT	Cat 966M wheel loader	2014	KJP000570	Ortiz	Ortiz	CAT	ECPYL09.3HTF	C9.3	9.3	2014	SYE01292	303	4F	u-r-001-0479	Green tag issued 02/27/2019	
2/20/2019	5/20/2019	Y5SA98	SERC_006	CAT	56S - 84" roller	2014	L8H00587	Ortiz	Ortiz	CAT	DPKXL04.4MI1	C4.4	NA	2013	C7N11131	156.9	4I	NA	Green tag issued 02/27/2019	NRCI data https://www.epa.gov/compliance-and-fuel-economy-data/annual-certification-
2/25/2019	3/8/2019	YV7D79	SERC_007	Volvo	ECR2353I - Excavator	2017	310653	Lalonde	Ortiz	Deutz	GDZXL05.7053	D6J	5.702	2016	11974476	173	4	u-r-013-0523	Green tag issued 02/27/2019	
2/27/2019	5/6/2019	DL9A58	SERC_009	Link-Belt	490X4	2017	LBX490Q7NGHEX1139	Lalonde	Ortiz	Isuzu Motors Limited	GSZXL09.8QXA	6UZ1	NA	2016	527667	362	4	u-r-006-0421	Green tag issued 02/27/2019	
2/26/2019	3/1/2019	SK8574	SERC_010	CAT	450F - Backhoe	2016	HJR00594	Lalonde	Ortiz	Perkins Engine Company	EPKXL04.4MK1	C4.4	4.4	2014	C7N36796	127	4	u-r-022-0191	Green tag issued 02/27/2019	
2/27/2019	5/20/2019	JG9B74	SERC_011	John Deere	210L Skip Loader	2017	1T8210LXPHF894289	Ortiz	Ortiz	John Deere	HJDXL04.5315	404HT096	4.5	2017	PE4045U052929	93	4F	u-r-004-0537	Green tag issued 02/27/2019	
3/6/2019	3/19/2019	SF7A56	SERC_012	CAT	Rough Terrain Forklift	2012	KDE00312	ARB	ARB	Perkins Engine Company	CPKXL04.4MK1	C4.4	4.4	2012	44800893	125	4I	u-r-022-0176-1	Green Tag issued on 3/7/2019	
3/12/2019	3/18/2019	RG5N99	SERC_013	CAT	966K Wheel Loader	2011	TFS00270	Ortiz	Ortiz	CAT	BCPXL09.3HPA	C9.3	9.3	2011	MME03431	274	4I	u-r-001-0409	Green Tag issued on 3/15/2019	
3/20/2019	3/25/2019	YJ4K66	SERC_014	JLG	Forklift - 54'	2014	160057617	Sunstate	ARB	Cummins	DCEXL04.5AAE	QSB5.5	4.5	2014	73617640	130	4I	u-r-002-0586	Green Tag issued on 3/22/2019	Will only be on site for a few days while SERC ID: SERC_012 is offsite for repairs
3/21/2019	8/30/2019	KT3V94	SERC_015	Genie	Forklift - Varialbe Reach	2014	BR2596	United Rentals	Newtron	Deutz	EDZXL02.9020	TD2.9L4	2.9	2014	11731188	74	4	u-r-013-0472-1	Green Tag issued on 3/22/2019	Received notification equipment left site 9/2/2019.
3/22/2019	onsite	SF7A56	SERC_016	CAT	Rough Terrain Forklift	2012	KDE00312	ARB	ARB	Perkins Engine Company	CPKXL04.4MK1	C4.4	4.4	2012	44800893	125	4I	u-r-022-0176-1	Green Tag issued on 3/22/2019	Formerly SERC_012 (was removedon 3/19 for repairs and returned on 3/22)
3/28/2019	4/25/2019	LG4L96	SERC_017	Genie	Aerial Lift	2001	50845	United Rentals	Newtron	Deutz AG	DDZXL02.9021	D2.9L4	2.925	2014	11511469	49	T4	u-r-013-0443	Green Tag Issued on 4/1/2019	
4/5/2019	Onsite	JW5N58	SERC_018	Genie	5K Reach Fork	2015	10366180	United Rentals	Newtron	Deutz AG	FDZXI02.9020	TD2.9L4	2.9	2015	h	74	4	u-r-013-0496	Green Tag issued on 4/11/2019	
4/10/2019	4/23/2019	BG8T73	SERC_019	John Deere	JD650JLTDozer	2009	T0650IX172684	Savala Equipment Rentals	Ortiz	John Deere	8JDXL06.8105	404SHT057		2008	PE4045L068083	115	3	u-r-004-0313	Yellow Tag issued on 4/11/2019	
4/26/2019	5/15/2019	BS9V43	SERC_020	John Deere	JD550K XLT Dozer	2015	1T0550KXHEE273832	Savala Equipment Rentals	Ortiz	John Deere	FJDXL04.5211	4045 HT070 A,B,C,D	4.5	2015	R534172-B	85	4	u-r-004-0499	Green Tag issued on 4/30/2019	
5/8/2019	5/22/2019	WW5G33	SERC_021	Bobcat	T 590 Skid Steer	2017	ALJU23845	United Rentals	ARB	Doosan	HDICL02.4LEA	D24NAP	2.392	2017	D24NAP7105046LE	66	4	u-r-019-0145	Green Tag Issued 5/14/2019	
5/14/2019	5/20/2019	DF9E37	SERC_022	Case	721G Wheel Loader	2017	NGF240121	United Rentals	Ortiz	Fiat Power Train	GFPXL06.7SDB	F4HFE613TB	4.5/6.7	2016	1444310	145	4F	u-r-015-0322	Green Tag Issued 5/14/2019	
5/22/2019	9/23/2019	NG3U86	SERC_023	CAT	259D Skid Steer Loader	2018	FTL14586	ARB	ARB	Kubota	HKBXL03.3EKD	C#3B	3.3	2017	8HQ0121	73.2	4	u-r-025-0733	Green Tag Issued 5/24/2019	
6/18/2019	Onsite	WK9J63	SERC_024	Deere	210I Skip Loader	2016	1T8210ELLGJ893464	ARB	N/A	John Deere Power Systems	FJDXL04.5212	4045HT072	4.52	2016	PE4045R108158	70	4	ARB EO not available. Verified using EPA data.	Green tag issued 06/19/2019	
7/9/2019	8/7/2019	TF6J89	SERC_025	Extreme Manufacturing	XR2045 Forklift	2018	XR2045-11-17119380	Ellis	ARB	Deutz AG	HDZXL03.6050	TCD3.6L4	3.621	2017	12076911	134	4	u-r-013-0536	Green tag issued 7/16/2019	
7/22/2019	7/26/2019	TP8N95	SERC_026	Case	580 Super N Back Hoe	2014	JJGN585NKEC705265	Tom's Back Hoe	ARB	FPT	FFPX L03.4ADD	F5HFL413C*A	3.4	2014	000189488	97	4	u-r-015-0259-1	Green Tag Issued 7/26/2019	Removed from on date green tag was issued.
8/7/2019	Onsite	VT6H48	SERC_027	Xtreme Manufacturing	XR2045 Forklift	2018	XR2045-11-18039329	Ellis	ARB	Deutz AG	HDZXL03.6060	TCD 3.6 L4	3.621	2017	12103041	134	4	u-r-013-0536	Green Tag Issued 8/13/2019	
8/14/2019	8/27/2019	RS6W99	SERC_28	Cummins	6K Reach Forklift	2014	10362305	United Rentals	Newtron	Cummins	ECEXL06.7AAH	QSB3.s	6.7	2014	68619362	129	4I	u-r-002-0006-1	Blue Tag Issued 8/14/2019	Removed from Site 8/27/2019. Green tag not issued
8/27/2019	Onsite	RV7M68	SERC_29	JCB	507-42	2016	2435467	United Rentals	Newtron	JCB Power Systems	GJCBL04.4TA5	444TA4-55L1	4.4	2016	SL320/40925U0865716	74	4	u-r-049-0042	Green Tag Issued 9/5/2019	
8/28/2019	Onsite	LR7P73	SERC_30	JLG	60' Boom Lift	2018	10755669	United Rentals	Newtron	Deutz Corp	JDZXL02.9020	TD 2.9 L4	2.9	2018	12147294	67	4	u-r-013-0553	Green Tag Issued 9/5/2019	
9/2/2019	Onsite	TX5P83	SERC_31	Manitowoc	Manitowoc 999	2002	9991103	Maxim Crane Works	ARB	Cummins	2CEXL0661AAF	QSM11	11	2008	35055789	350	2	u-r-002-0144	Green Tag Issued 9/5/2019	Tier relief requested. CEC received notification from Hong Zhuang (AQCOMM) on 9/3/2019.
9/10/2019	Onsite	HN6U33	SERC_032	JLG	6042 T4F 6K Reach Forklift	2016	160073851	United Rentals	Newtron	Cummns	FCEXL03.8AAA	QSF3.8	3.8	2015	89276073	89	4	U-R-002-0620	Green Tag Issued 9/12/2019	
9/13/2019	9/18/2019	166565	SERC_033	Catapillar	XQ200 Generator	2014	CAT00C71KMRP00571	Quinn Power	MSTS	Catapillar	DPKXL7.01BL1	C7.1	7.01	2014	E7B00723		4		Blue Tag Issued 9/13/2019	Removed from site 9/18/2019. Green tag not issued
9/16/2019	Onsite	WP9E86	SERC_034	JLG	660SJ Manlift	2015	300206993	Sunstate	ARB	Deutz	FDZXL02.9020	TD2.9L4	2.925	2015	11777630	67	4	u-r-013-0496	Green tag issued 9/20/2019	
9/23/2019	Onsite	XG7V58	SERC_035	Grove	GRT880 Crane	2017	235778	ARB	ARB	Cummins	GCEXL06.7AAK	QSB6.7	6.7	2016	74026109	275	4	u-r-002-0639	Green Tag Issued 10/01/2019	



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John Heiser, CMP
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

September 3, 2019

**Subject: Using a Tier 2 Equipment at Stanton Energy Reliability Center
Construction Site**

Mr. Heiser:

ARB Inc. (ARB) is planning to use a Manitowoc 999 crane that has a Tier 2 engine to help complete the Heavy Crane Scope of Work at the Stanton Energy Reliability Center construction site. The equipment will be used onsite through mid to late December.

Manitowoc 999 is a specialized piece of equipment that is necessary for the project to lift and place the heavy equipment onsite. Based on site restraints with tail swing, width of crane base and maneuverability, there are no other cranes that would fit the project needs for this particular jobsite. ARB demonstrated that the Tier 2 is the highest tier of the engine offered for the specified equipment, and there is no known retrofit available for this engine model. Documentation of ARB's searching for the equipment with higher tier engine and the correspondence with the vendors is attached.

This letter certifies that a good faith effort was made by ARB to meet the equipment requirements as defined in Conditions of Certification AQ-SC-5, and the use of Tier 2 with retrofit or higher tier engine is not practical for the specified equipment. As such, using of the Manitowoc 999 complies with AQ-SC-5 requirements.

Should you have any questions, please feel free to contact me at 949-224-7995 or hong.zhuang@jacobs.com.

Regards,

A handwritten signature in blue ink that reads "Hong Zhuang".

Hong Zhuang
AQCMM



Equipment Letter

Project Name: **Stanton Energy Reliability Center**
Client: W Power, LLC.
Project No.: 14361421
Date: August 28, 2019
Location: Stanton, Ca

SUBJECT: TIER RELIEF REQUEST

Mr. Bofman,

ARB, Inc. has recently rented a piece of equipment to help complete the Heavy Crane Scope of Work onsite at the Stanton Energy Reliability Center. The piece of equipment that was selected is a Manitowoc 999. This is a specialized piece of equipment that will help lift and place all of the heavy equipment onsite. The crane is capable of lifting 250 Tons. The timeframe expected onsite is an arrival on August 31st, 2019 and will be expected to leave by mid to late December.


Equipment Name	Manitowoc 999
Date of Arrival	8/31/2019
Date of Removal	TBD
CARB ID (6 digit, AB1C23)	TX5P83
Equipment S/N	9991103
Engine Manufacturer	CUMMINS
Engine Family	2CEXL0661AAF
Engine Model	QSM11
Engine Displacement	11.00
Engine Model Year	2008
Engine S/N	35055789
Engine Horsepower	350
Engine Tier	2
Owner	Maxim Crane Works
Renter	ARB, Inc.

This crane never been produced as a Tier 4 piece of equipment and due to the limited production quantity each year and amount of machines owned, only a Tier 2 is available. ARB is submitting this piece of equipment for Tier Relief.

Based on site restraints with tail swing, width of crane base and maneuverability, there are no other cranes that ARB would be able to utilize for this particular jobsite. The project is very narrow which only allows only a small staging and lifting area at each unit. We are also constrained by power lines on three sides of the property. In order to keep the crane opposite of the power lines, we are proposing the Manitowoc 999. A conventional truck crane has a very wide and long base and would not allow for a close enough placement to the foundation, nor would it allow the heavy haul trucking to pull up beside the crane. A conventional truck crane (lattice boom or hydro) is approximately 5'-0" wider and over 20'-0" longer than the Manitowoc 999. Those options are not feasible for this location. Also, there is no known retrofit equipment available for this piece of equipment that we are aware of.


From the attached lift plan (MCW - SERC_TURBINE ROOM_CRITICAL LIFT PLAN_REV 0) and crane chart (999-Product-Guide), it is visually shown what kind of area onsite is available. We have shown the trucking alongside the crane as well.

Thank you for your consideration,



Digitally signed by Nick Tasich
DN: C=US, E=NTasich@prim.com,
O="ARB, Inc.", OU=Industrial,
CN=Nick Tasich
Reason: I am approving this document
Date: 2019.09.03 06:23:57-07'00'

Nick Tasich
Sr. Project Engineer
ARB, Inc.
26000 Commercentre Drive
Lake Forest, CA 92630
310.874.9612

 Cummins Inc.		<i>File</i> EXECUTIVE ORDER U-R-002-0144 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2002	2CEXL0661AAC	10.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Crane, Loaders, Compressor	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
225 ≤ KW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		FEL	N/A	N/A	6.2	N/A	0.14	N/A	N/A	N/A
		CERT	--	--	5.6	0.8	0.11	11	1	20

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 19th day of December 2001.


 R. B. Summerfield, Chief
 Mobile Source Operations Division

Engine Model Summary Form

U-R-002-0144

APAC/4/20

Manufacturer: Cummins Inc.
Engine category: Nonroad Over 50
EPA Engine Family: 2CEXL0661AAC
Mr Family Name: C353
Process Code: New Submission

1.Engine Code	2.Engine Model	3.OIIP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak IIP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak IIP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
2829:FR2918	QSM11-C	425@1800	228	138.4	1450@1300	266	116.7	DDI, TC, EC, CAC
2829:FR2952	QSM11-C	400@1800	217	132.0	1400@1400	261	123.0	TC, EC, CAC
2829:FR2947	QSM11-C	390@2100	185	131.2	1264@1400	237	112.0	EC, TC, CAC
2829:FR2929	QSM11-C	400@2100	197	139.3	1400@1400	259	122.5	TC, EC, CAC
2829:FR2925	QSM11-C	375@2000	177	125.1	1400@1400	259	122.5	TC, EC, CAC
2829:FR2922	QSM11-C	360@2100	172	121.7	1350@1400	251	118.7	TC, EC, CAC
2829:FR2921	QSM11-C	400@2100	190	134.4	1400@1400	259	122.5	TC, EC, CAC
2829:FR2912	QSM11-C	400@2100	190	134.4	1400@1400	259	122.5	TC, EC, CAC
2829:FR2850	QSM11-C	360@1800	194	117.9	1260@1400	237	111.7	TC, EC, CAC
2829:FR2849	QSM11-C	385@1800	208	126.3	1400@1400	259	122.5	TC, EC, CAC
2829:FR2840	QSM11-C	350@2000	174	117.3	1380@1400	256	121.0	TC, EC, CAC
2829:FR2839	QSM11-C	350@2100	168	118.6	1310@1400	245	115.6	TC, EC, CAC
2829:FR2837	QSM11-C	375@2000	186	125.1	1400@1400	259	122.5	TC, EC, CAC
2829:FR2836	QSM11-C	375@2100	178	126.4	1400@1400	259	122.5	TC, EC, CAC
2829:FR2835	QSM11-C	400@2000	197	133.1	1400@1400	259	122.5	TC, EC, CAC
2829:FR2834	QSM11-C	400@2100	190	134.4	1400@1400	259	122.5	TC, EC, CAC
2829:FR2323	QSM11-C	375@2100	179	126.4	1400@1400	259	122.5	TC, EC, CAC
2828:FR2926	QSM11-C	330@2100	155	109.9	1235@1400	110	233	TC, EC, CAC
2828:FR2859	QSM11-C	330@2100	155	109.9	1170@1400	222	104.9	TC, EC, CAC
2828:FR2852	QSM11-C	315@1800	167	101.6	1160@1400	221	104.2	TC, EC, CAC
2828:FR2851	QSM11-C	335@1800	179	108.5	1255@1400	236	111.4	TC, EC, CAC
2828:FR2845	QSM11-C	320@2000	156	104.9	1260@1400	237	111.8	TC, EC, CAC
2828:FR2844	QSM11-C	330@2100	155	109.9	1075@1400	206	97.4	TC, EC, CAC
2828:FR2843	QSM11-C	330@2100	155	109.9	1235@1400	233	109.9	TC, EC, CAC
2828:FR2842	QSM11-C	335@2000	163	109.9	1320@1400	246	116.2	TC, EC, CAC
2828:FR2841	QSM11-C	335@2100	158	111.6	1255@1400	236	111.4	TC, EC, CAC
2828:FR2957	QSM11-C	315@2100	150	105.9	1180@1400	104.3	234	TC, EC, CAC

Dennis Collins

From: Kevin Sandoval <Dispatch@bhccrane.com>
Sent: Wednesday, August 28, 2019 3:42 PM
To: Dennis Collins
Subject: RE: Crane Request [EXTERNAL]

Dennis

Unfortunately BHC does not have a Tier 4 999 available to assist you at this time
Thank you for the opportunity

From: Dennis Collins <DCollins@maximcrane.com>
Sent: Wednesday, August 28, 2019 1:42 PM
To: Kevin Sandoval <Dispatch@bhccrane.com>
Subject: Crane Request

Hey Kevin,

I have a job that requires a Tier 4 999 for immediate work, do you have a Tier 4 999 available? Thank you.

*Dennis Collins
Maxim Crane Works
Operations & Branch Manager-Southern California Region
"Semper Fi"*

Phones

*Long Beach: (562) 989-5709
Fax: (562) 595-7665
Cell: (760) 214-3347*



Click link below to view the Maxim Crane Works brochure
<http://www.maximcrane.com>

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<http://www.maximcrane.com>

Dennis Collins

From: Robert Ruvalcaba <Robert@mrcrane.com>
Sent: Wednesday, August 28, 2019 1:38 PM
To: Dennis Collins
Subject: RE: Crane Request [EXTERNAL]

Hi Dennis,

Thank you reaching out, but we do not have any Tier 4 cranes available anytime soon.



Robert Ruvalcaba
Mr. Crane, Inc.
647 N. Hariton St.
Orange, California 92868
Cell: (714) 363-1478
Direct: (714) 221-7194
www.mrcrane.com



"Your Total Crane Solutions Provider"

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From: Dennis Collins <DCollins@maximcrane.com>
Sent: Wednesday, August 28, 2019 1:31 PM
To: Robert Ruvalcaba <Robert@mrcrane.com>
Subject: Crane Request

Hey Robert,

I hope all is well. Do you have a Tier 4 999 Crawler crane available for immediate work? Please let me know, thank you.

Dennis Collins
Maxim Crane Works
Operations & Branch Manager-Southern California Region

Dennis Collins

From: Champion Crane Rental, Inc. <championcr@aol.com>
Sent: Wednesday, August 28, 2019 3:28 PM
To: Dennis Collins
Subject: Re: Tier 4 999 Needed [EXTERNAL]

Dennis,

Unfortunately we do not have a triple 9 in our inventory with a tier four motor.

Regards,

Mike Konle, President

Champion Crane Rental, Inc.

Spuds Crane Service, Inc.

12521 Branford St.

Pacoima, CA 91331

Tel: 818-781-3497

Fax: 818-896-6202

Email: Championcr@aol.com

Website: www.championcrane.us

Note: Crane service cannot be scheduled or canceled by email. Please call the office for assistance

In a message dated 8/28/2019 3:25:59 PM Pacific Standard Time, DCollins@maximcrane.com writes:

Good afternoon Mike,

Do you have a Tier 4 999 crawler crane available for immediate work. Your assistance is greatly appreciated, thank you.

Dennis Collins

Maxim Crane Works

Operations & Branch Manager-Southern California Region

"Semper Fi"

Phones

Long Beach: (562) 989-5709

Fax: (562) 595-7665

Cell: (760) 214-3347



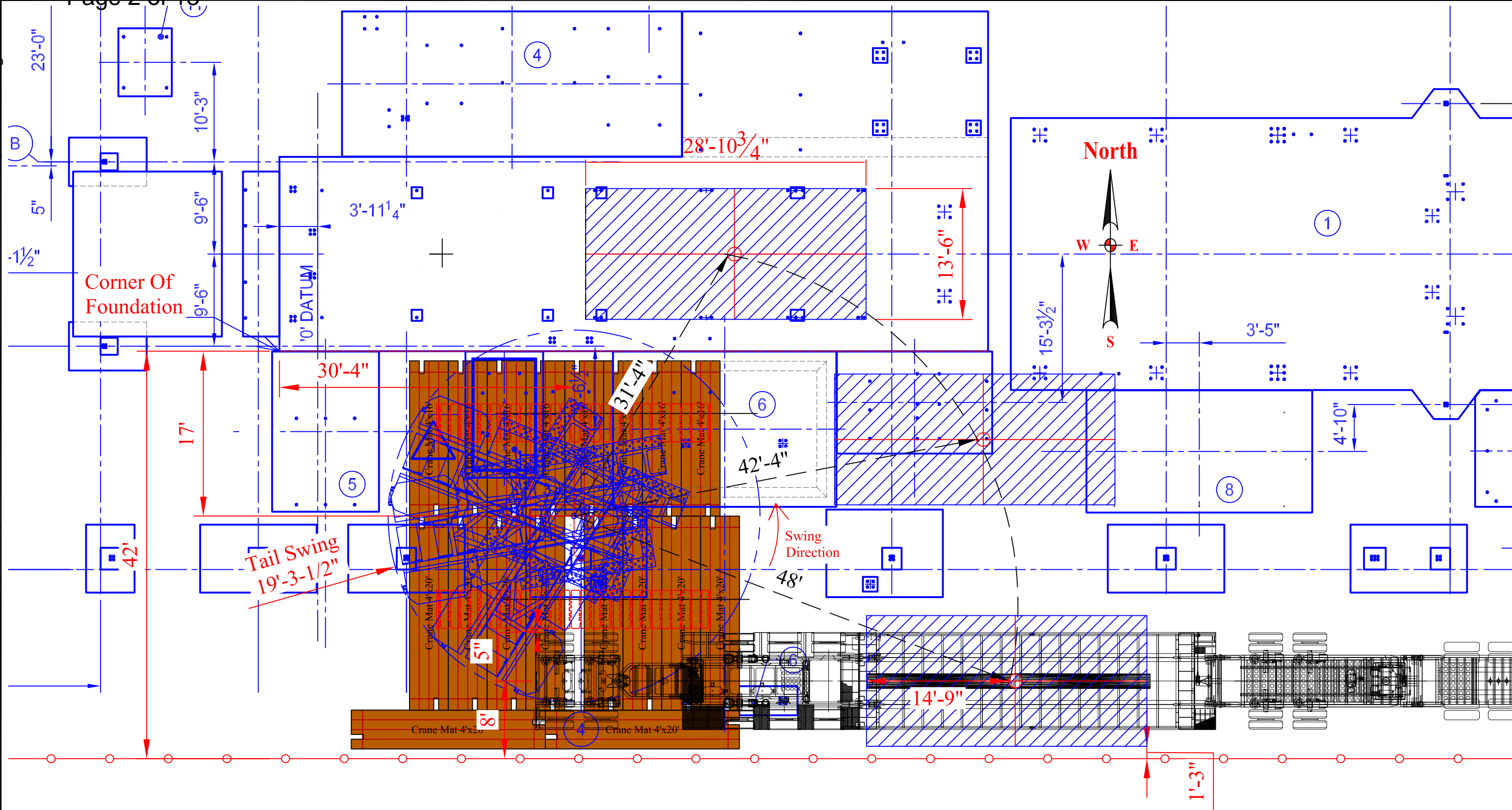
CRITICAL LIFT PLAN

PROJECT NAME:	STANTON ENERGY RELIABILITY CENTER
CUSTOMER:	ARB
DESCRIPTION:	TURBINE ROOM LIFT
REVISION/DATE	Rev 0 8/26/19
SUMMARY: UTILIZE THE MANITOWOC 999 CRAWLER CRANE TO LIFT THE TURBINE ROOM FROM THE HEAVY HAUL TRANSPORT TRAILER, SWING NORTH 180° AND SET IT ON IT'S PERMANENT FOUNDATION. LIFTING FROM THE TRAILER IS THE LONGEST RADIUS.	

TABLE OF CONTENTS

1. <u>COVER PAGE</u>	PAGE 1
2. <u>MAXIM DRAWINGS</u>	PAGE 2-4
3. <u>CRANE INFO; COVER PAGE, RANGE DIAGRAM, DIMENSIONS & LOAD CHART</u>	PAGE 5-8
4. <u>RIGGING INFO</u>	PAGE 9-13

C:\Users\cgiovanni\Documents\ARB\STANTON ENERGY\ACAD\TURB\MCW - SERC - TURB ROOM WITH ENGINE (8-25-19).dwg, 8/25/20



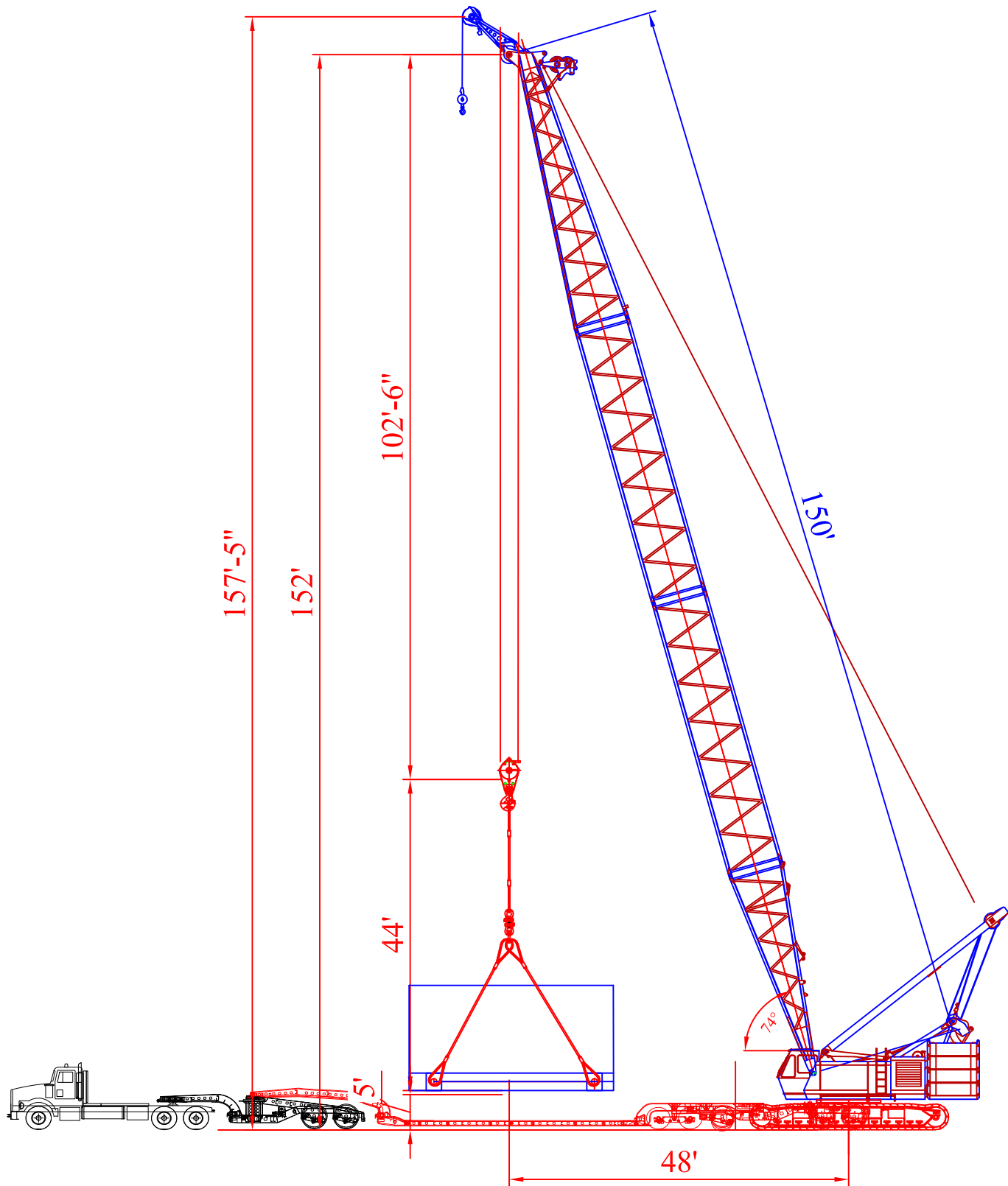
SERC - TURBINE ROOM (WITHOUT ENGINE)
PLAN VIEW

NOTES:
This drawing has been prepared for the sole use of MAXIM CRANE WORKS. It is loaned to the recipient for his confidential use only. Reproduction or distribution shall not be performed without the express written consent of MAXIM CRANE WORKS.
SOIL BEARING CAPACITIES - The ability of the soil to support the required loads under the outriggers is critical. The worst case loading for the crane including a margin for unknowns must be analyzed. The customer is responsible for analysis and verification of existing site conditions. The customer's qualified soils expert should review the soil conditions in the area under the crane to ensure that there is adequate capacity.
UNDERGROUND STRUCTURES - Customer is to verify that there are no underground structures or obstructions in the area of the crane locations planned in the lift procedure. The customer is responsible to see that all underground structures and utilities will be marked and necessary stabilization provided.

REV	DATE	BY	DESCRIPTION



DRAWN BY: CG	TURBINE ROOM (NO ENGINE)	PROJECT NO.
DATE: 8/25/19	---	PLAN VIEW
CHECKED BY: ARB	Sheet:---	Size
DATE: ---	STANTON ENERGY RELIABILITY CENTER	REV
	MCW-101	0



SERC - TURBINE ROOM (WITHOUT ENGINE)
ELEV VIEW



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LIFT DATA TABLE

ARB			TURBINE ROOM (NO ENGINE)
SERC			LIFT & SET
8/19/2019			MANITOWOC 999
Lifting Configuration			MAIN BOOM
Main Boom Length			150.0 ft
Main Boom Angle			74 Deg.
Crawler Base/Outrigger			28'-3" x 23'-2"
Crane Counterweight			219,600 Lbs
Carbody Counterweight			80,000 ft
Load Radius			48 ft
Load Weight			95,918 Lbs
Block Weight			5,500 Lbs
Main - Line Fall Deduct			
8 -part	2.13 Lbs/ft	103 LF	1,755 Lbs
Ball Weight			1,300 Lbs
Aux - Line Fall Deduct			
1 -part	2.13 Lbs/ft	10 LF	21 Lbs
Upper Boom Point			905 Lbs
Rigging			4,000 Lbs
Total			109,399 Lbs
Capacity			146,500 Lbs
Percentage of Capacity			74.7%

(I) Indicates Interpolated Capacity

(*) ndicates Capacity @ Next Highest Radius

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UNDERGROUND STRUCTURES - Customer is to verify that there are no underground structures or obstructions in the area of the crane locations planned in the lift procedure. The customer is responsible to see that all underground structures and utilities will be marked and necessary stabilization provided.

REV	DATE	BY	DESCRIPTION



DRAWN BY: CG	TURBINE ROOM (NO ENGINE)	PROJECT NO. ELEV VIEW
DATE: 8/25/19	---	---
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DATE: ---	---	MCW-201
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RIGGING CALCULATION TABLE:

ARB:	STANTON ENERGY:		TURBINE ROOM (NO ENGINE)		
Slings	2 Ea.	2 1/2 In	15 Lf	11.60 lbs/Lf	580 #s
Shackles	2 Ea.	85 t	-	103.00 lbs	206 #s
SB #270127	1 Ea.	-	17 Lf	1,650 #s	1,650 #s
Shackles	2 Ea.	85 t	-	103.00 lbs	206 #s
Slings	2 Ea.	2 1/2 In	24 Lf	11.60 lbs/Lf	789 #s
Subtotal:					3,431 #s
Extra:					570.00
Total Rigging Weight:					4,000 #s

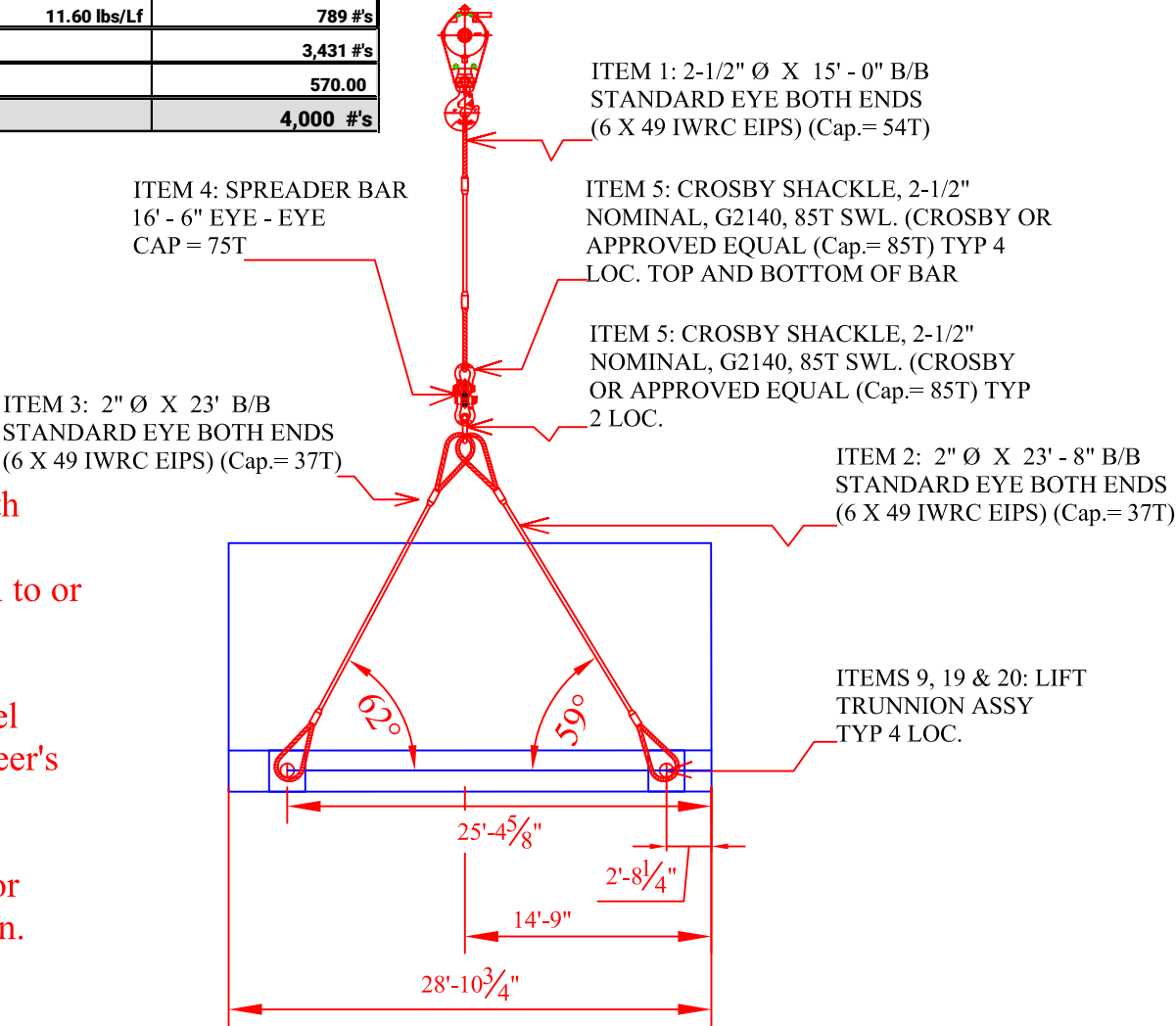
RIGGING:
TURBINE ROOM
(NO ENGINE)

Note: Rigging Shown Represents the Minimum Strength Requirements. Substitutions in Material is Acceptable Provided the Replacement Has A Rated Capacity Equal to or Greater Than Values Shown.

Substituting TwinPath or Endless Round Slings for Steel Slings or Vise Versa is Acceptable with Rigging Engineer's Approval.

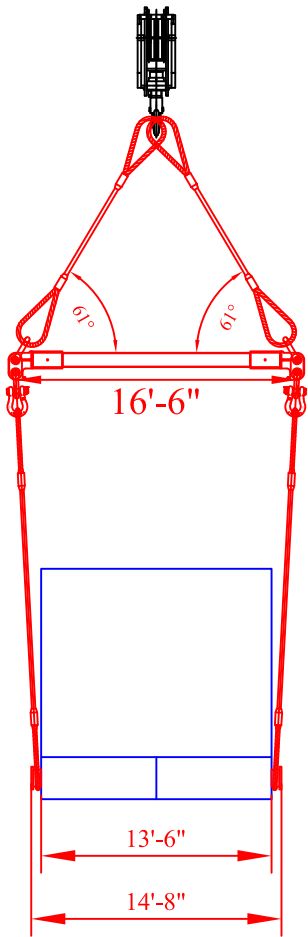
Slings Lengths May Be Adjusted and Shackles Added or Subsited to Level Load or to Make Up Rigging Shown.

Longer/Shorter Rigging Lengths Are Acceptable (to Accomodate Inventory On Hand) with Rigging Engineer/Lift Supervisor's Approval.



SIDE VIEW

LOAD WEIGHT = 95,918 lbs.



END VIEW

SERC - TURBINE ROOM (WITHOUT ENGINE)
RIGGING DETAIL

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UNDERGROUND STRUCTURES - Customer is to verify that there are no underground structures or obstructions in the area of the crane locations planned in the lift procedure. The customer is responsible to see that all underground structures and utilities will be marked and necessary stabilization provided.

REV	DATE	BY	DESCRIPTION



DRAWN BY: CG	TURBINE ROOM (NO ENGINE)	PROJECT NO. RIGGING DETAIL
DATE: 8/25/19	---	---
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DATE: ---	STANTON ENERGY RELIABILITY CENTER	MCW-301
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model 999

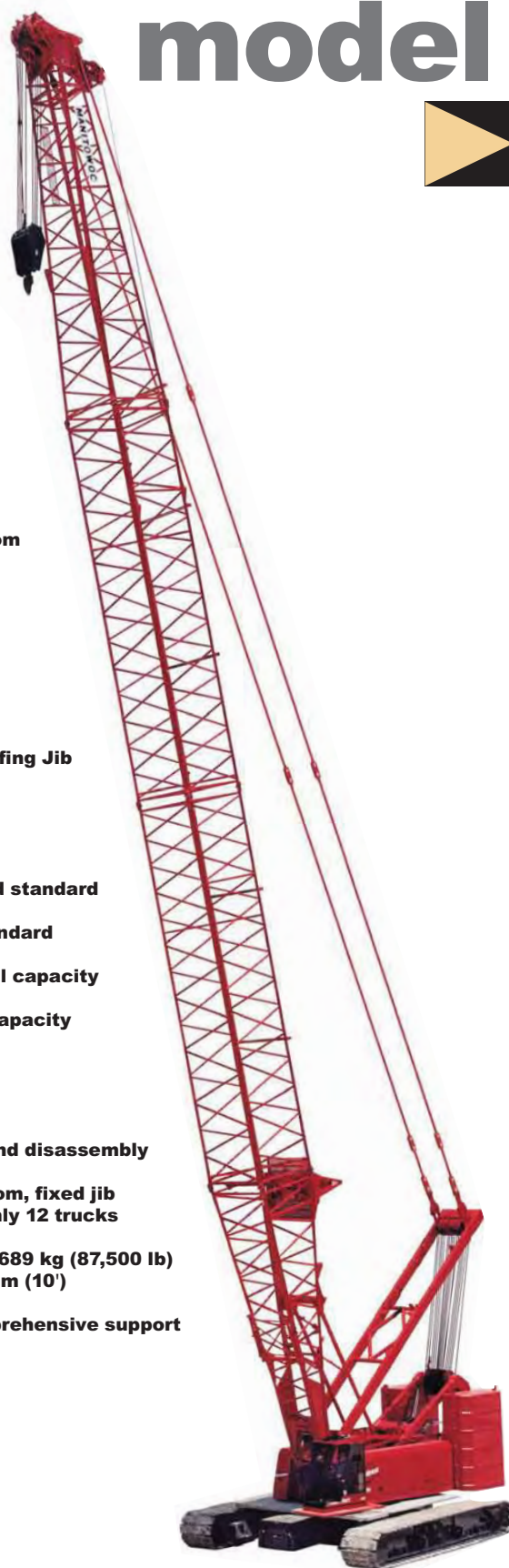
product guide

features

- 250 mton (275 ton) capacity
- 1 115 mton-m (8,268 ft-kips) Maximum Load Moment
- 88,4 m (290') Heavy-Lift Boom
- 103,6 m (340') Long-Reach Boom
- 100,6 m (330') Fixed Jib on Heavy-Lift Boom
- 115,8 m (380') Fixed Jib on Long-Reach Boom
- 128,0 m (420') Luffing Jib
- 146,3 m (480') Fixed Jib on Luffing Jib
- 291 kW (390 HP) engine
- EPIC® controls
- 134 m/min (440 fpm) line speed standard
- 131 kN (29,500 lb) line pull standard
- 13 600 kg (29,500 lb) Clamshell capacity
- 9 100 kg (20,000 lb) Dragline capacity
- 999 MAX-ER™ attachment
- 999 RINGER® attachment
- Fast, efficient self-assembly and disassembly
- Complete crane, maximum boom, fixed jib and counterweight ships on only 12 trucks
- Heaviest module weight of 39 689 kg (87,500 lb) maximum module width of 3,0 m (10')
- Manitowoc CraneCARESM comprehensive support

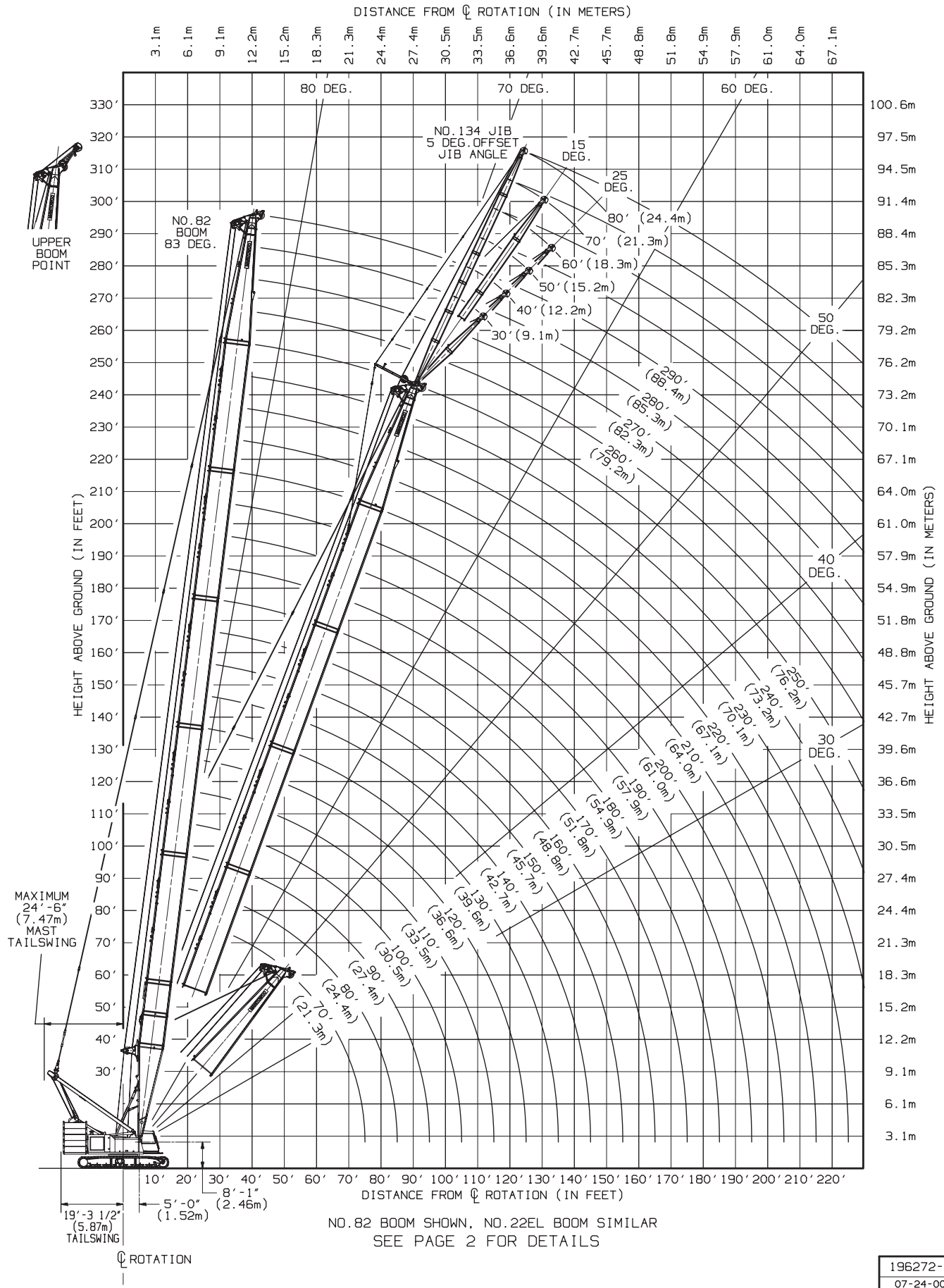
contents

Specifications	3
Outline Dimensions	9
Transport / Assembly	19
Performance Data	22
Boom Combinations	36
Main & Long-Reach Range / Load Charts	42
Fixed Jib Range / Load Charts	50
Luffing Jib Range / Load Charts	65
Fixed Jib on Luffing Jib Range / Load Charts	74
MAX-ER™	79
RINGER® Range / Load Charts	80
CraneCARE SM	88



Manitowoc

MANITOWOC CRANES, INC.



Manitowoc Cranes, Inc.
Manitowoc, Wisconsin 54220 U.S.A.



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

Boom No. 82 or 22EL
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	265,500 *
28	82.0	156.3	261,400 *
30	81.3	156.0	255,600 *
32	80.5	155.7	248,900 *
34	79.7	155.3	234,200 *
36	78.9	154.9	221,000 *
38	78.2	154.4	204,800
40	77.4	154.0	190,000
42	76.6	153.5	177,100
44	75.8	152.9	165,700
46	75.0	152.4	155,500
48	74.2	151.8	146,500
50	73.4	151.2	138,300
55	71.4	149.5	121,000
60	69.4	147.7	107,200
65	67.3	145.6	95,900
70	65.2	143.3	86,500
75	63.0	140.8	78,500
80	60.9	138.0	71,700
85	58.6	135.0	65,800
90	56.3	131.7	60,600
95	54.0	128.1	56,000
100	51.6	124.2	51,900
105	49.1	119.9	48,300
110	46.4	115.2	45,000
115	43.7	110.1	42,000
120	40.8	104.4	39,200
125	37.7	98.1	36,800
130	34.4	91.0	34,500
135	30.8	83.0	32,300
140	26.7	73.5	29,300 *
145	21.9	62.0	26,000 *
150	15.7	46.6	22,400 *
160 Ft. BOOM			
28	82.5	166.4	236,000 *
30	81.8	166.1	236,000 *
32	81.1	165.8	236,000 *
34	80.4	165.4	233,800 *
36	79.6	165.1	220,600 *
38	78.9	164.7	204,600
40	78.2	164.2	189,800
42	77.4	163.8	176,900
44	76.7	163.3	165,500
46	76.0	162.8	155,300
48	75.2	162.2	146,200
50	74.5	161.6	138,000
55	72.6	160.1	120,800
60	70.7	158.3	107,000
65	68.8	156.4	95,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
70	66.8	154.3	86,200
75	64.9	152.0	78,300
80	62.9	149.4	71,400
85	60.8	146.7	65,500
90	58.7	143.7	60,300
95	56.6	140.4	55,700
100	54.4	136.8	51,600
105	52.1	133.0	48,000
110	49.8	128.8	44,700
115	47.4	124.3	41,700
120	44.9	119.3	39,000
125	42.2	113.9	36,500
130	39.4	108.0	34,200
135	36.5	101.4	32,100
140	33.3	94.0	30,100
145	29.8	85.6	28,000 *
150	25.8	75.8	25,100 *
155	21.2	63.8	22,100 *
160	15.2	47.8	18,900 *
170 Ft. BOOM			
28	83.0	176.5	232,700 *
30	82.3	176.3	228,400 *
32	81.6	175.9	224,100 *
34	80.9	175.6	219,800 *
36	80.3	175.2	215,700 *
38	79.6	174.9	204,500
40	78.9	174.5	189,700
42	78.2	174.0	176,700
44	77.5	173.6	165,300
46	76.8	173.1	155,100
48	76.1	172.6	146,000
50	75.4	172.0	137,900
55	73.7	170.6	120,600
60	71.9	169.0	106,800
65	70.1	167.2	95,400
70	68.3	165.2	86,000
75	66.4	163.0	78,000
80	64.6	160.7	71,200
85	62.7	158.1	65,200
90	60.8	155.3	60,000
95	58.8	152.3	55,400
100	56.8	149.1	51,400
105	54.7	145.6	47,700
110	52.6	141.8	44,400
115	50.4	137.7	41,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
120	48.2	133.3	38,700
125	45.9	128.5	36,200
130	43.4	123.3	34,000
135	40.9	117.7	31,800
140	38.2	111.4	29,900
145	35.3	104.5	28,100
150	32.2	96.9	26,400
155	28.8	88.1	24,000 *
160	25.0	77.9	21,400 *
165	20.5	65.6	18,800 *
180 Ft. BOOM			
30	82.7	186.4	206,500 *
32	82.1	186.1	206,500 *
34	81.4	185.7	206,500 *
36	80.8	185.4	204,700 *
38	80.2	185.0	200,800 *
40	79.5	184.7	189,400
42	78.9	184.3	176,500
44	78.2	183.8	165,000
46	77.6	183.4	154,900
48	76.9	182.9	145,800
50	76.2	182.4	137,600
55	74.6	181.0	120,300
60	72.9	179.5	106,500
65	71.2	177.8	95,100
70	69.5	176.0	85,700
75	67.8	173.9	77,700
80	66.1	171.7	70,800
85	64.3	169.3	64,900
90	62.5	166.8	59,700
95	60.7	164.0	55,100
100	58.9	161.0	51,000
105	57.0	157.8	47,400
110	55.0	154.3	44,100
115	53.0	150.6	41,100
120	51.0	146.6	38,400
125	48.9	142.3	35,900
130	46.7	137.6	33,600
135	44.5	132.6	31,500
140	42.1	127.2	29,600
145	39.7	121.2	27,800
150	37.1	114.8	26,100
155	34.3	107.6	24,500
160	31.3	99.6	22,700 *
165	28.0	90.6	20,300 *
170	24.3	80.1	18,000 *
175	19.9	67.3	15,700 *

Crosby® Alloy Bolt Type Shackles

Load Rated®



APPLICATION INSTRUCTIONS
SEE PAGE 89 OF THE GENERAL CATALOG

G-2140 / S-2140 ALLOY BOLT TYPE ANCHOR SHACKLES



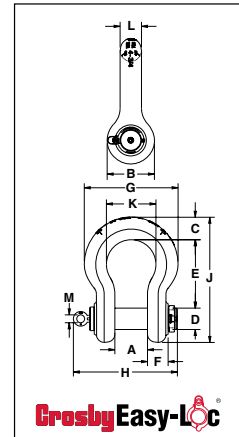
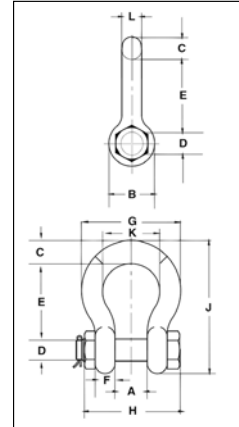
G-2140 meets the performance requirements of Federal Specification RR-C-271F, Type IVA, Grade B, Class 3, except for those provisions required of the contractor. For additional information, see page 444.



G-2140E

Crosby Easy-Loc®

- Quenched and Tempered.
- Alloy bows, Alloy bolts.
- Forged Alloy Steel 30 thru 200 metric tons. Cast Alloy Steel 250 thru 400 metric tons. Meets performance requirements of Grade 8 shackles.
- Working Load Limit is permanently shown on every shackle.
- 30, 40, 55, and 85 metric ton shackle bows are available galvanized or self colored with pins that are galvanized and painted red.
- 120, 150, 175 metric ton shackle bows are hot-dip galvanized; pins are Dimetcoated® and painted red.
- 200, 250, 300 and 400 metric ton shackle bows are Dimetcoated®; pins are Dimetcoated® and painted red.
- All sizes are **RFID EQUIPPED**.
- Approved for use at -40 degree C (-40 degree F) to 204 degree C (400 degree F).
- Shackles are Quenched and Tempered and can meet DNV impact requirements of 42 joules (31 ft-lbs.) at -20 degree C (-4 degree F).
- All sizes are individually proof tested to 2.0 times the Working Load Limit.
- Refer to page 85 for Crosby COLD TUFF® shackles that meet the additional requirements of DNV rules for certification of lifting applications - Loose Gear.
- Shackles 200 metric tons and larger are provided as follows.
 - Serialized Pin and Bow
 - Material Certification (Chemical)
 - Magnetic Particle Inspected.
 - Certification must be requested at time of order.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these shackles meet other critical performance requirements including impact properties and material traceability, not addressed by ASME B30.26.
- Type Approval and certification in accordance with ABS 2006 Steel Vessel Rules 1-1-17.7, and ABS Guide for Certification of Cranes.
- Look for the Red Pin® . . . the mark of genuine Crosby quality.



G-2140E / S-2140E Crosby® Alloy **Crosby Easy-Loc®** Shackles

Nominal Shackle Size (in.)	Working Load Limit (t)*	Stock No.		Weight Each (lbs.)	Dimensions (in.)													Tolerance + / -	
		G-2140E	S-2140E		A	B	C	D +/- .02	E	F	G	H	J	K	L	M	A	E	
4-3/4	† 200	1021422	—	452	7.25	10.50	5.00	4.75	15.19	4.58	20.84	23.11	27.81	11.00	4.75	1.75	0.25	0.25	
5**	† 250	1021442	—	594	8.50	12.00	5.63	5.00	18.50	4.48	23.63	24.28	32.63	13.00	5.00	1.75	0.25	0.25	
6**	† 300	1021460	—	791	8.38	13.00	6.06	6.00	18.72	4.89	24.76	25.45	34.28	13.00	5.88	1.75	0.25	0.25	

G-2140 / S-2140 Crosby® Alloy Bolt Type Shackles

Nominal Shackle Size (in.)	Working Load Limit (t)*	Stock No.		Weight Each (lbs.)	Dimensions (in.)												Tolerance + / -	
		G-2140	S-2140		A	B	C	D +/- .02	E	F	G	H	J	K	L	A	E	
3/8	2	1021015	-	0.33	0.66	0.91	0.38	0.44	1.44	0.38	1.78	2.17	2.49	1.03	0.38	0.06	0.13	
7/16	2 2/3	1021020	-	0.49	0.75	1.06	0.44	0.50	1.69	0.41	2.03	2.51	2.91	1.16	0.44	0.06	0.13	
1/2	3 1/3	1021029	-	0.79	0.81	1.19	0.50	0.64	1.88	0.46	2.31	2.80	3.28	1.31	0.50	0.06	0.13	
5/8	5	1021038	-	1.68	1.06	1.50	0.69	0.77	2.38	0.58	2.94	3.56	4.19	1.69	0.63	0.06	0.13	
3/4	7	1021047	-	2.72	1.25	1.81	0.81	0.89	2.81	0.69	3.50	4.15	4.97	2.00	0.75	0.06	0.25	
7/8	9 1/2	1021056	-	3.95	1.44	2.09	0.97	1.02	3.31	0.81	4.03	4.82	5.83	2.28	0.88	0.06	0.25	
1	12 1/2	1021065	-	5.66	1.69	2.38	1.06	1.15	3.75	0.92	4.69	5.39	6.56	2.69	1.00	0.06	0.25	
1 1/8	15	1021074	-	8.27	1.81	2.69	1.25	1.25	4.25	1.04	5.16	5.90	7.47	2.91	1.13	0.06	0.25	
1 1/4	18	1021083	-	11.7	2.03	3.00	1.38	1.40	4.69	1.16	5.75	6.69	8.25	3.25	1.29	0.06	0.25	
1 3/8	21	1021092	-	15.8	2.25	3.31	1.50	1.53	5.25	1.28	6.38	7.21	9.16	3.63	1.42	0.13	0.25	
1-1/2	30	1021110	1021129	18.8	2.38	3.62	1.62	1.63	5.75	1.39	6.88	7.73	10.00	3.88	1.53	0.13	0.25	
1-3/4	40	1021138	1021147	33.8	2.88	4.19	2.25	2.00	7.00	1.75	8.81	9.33	12.34	5.00	1.84	0.13	0.25	
2	55	1021156	1021165	49.9	3.25	4.81	2.40	2.25	7.75	2.00	10.16	10.41	13.68	5.75	2.08	0.13	0.25	
2-1/2	85	1021174	1021183	103	4.12	5.81	3.12	2.75	10.50	2.62	12.75	13.58	17.90	7.25	2.71	0.25	0.25	
3	120	1021192	—	162	5.00	6.50	3.63	3.25	13.00	3.00	14.62	15.13	21.50	7.88	3.12	0.25	0.25	
3-1/2	† 150	1021218	—	268	5.25	8.00	4.38	3.75	14.63	3.75	17.02	17.62	24.88	9.00	3.62	0.25	0.25	
4	† 175	1021236	—	332	5.50	9.00	4.56	4.25	14.50	4.00	18.00	20.37	25.68	10.00	4.00	0.25	0.25	
7**	† 400	1021478	—	1200	8.25	14.00	7.25	7.00	22.50	6.50	26.00	28.68	40.25	13.00	6.00	0.25	0.25	

* Note: Maximum Proof Load is 2.0 times the Working Load Limit. Minimum Ultimate Load is 4 times the Working Load Limit on 200 thru 400 metric Tons. For sizes 30 thru 175 metric Tons, Minimum Ultimate Load is 5.4 times the Working Load Limit. ** Cast Alloy Steel. † Furnished with Round Head Bolts with an eyebolt for handling. For Working Load Limit reduction due to side loading applications, see page 91.

WIRE ROPE STRENGTHS AND WEIGHTS

Wire Rope Strengths and Weights—6x19 and 6x36 Classification/Bright (Uncoated)

Diameter		Approx. Mass		Minimum Breaking Force					
inches	mm	lb/ft	kg/m	IPS tons	1770 kN	EIP tons	1960 kN	EEIP tons	2160 kN
1-1/2		4.16	6.184	98.9		114		125	
	40	4.58	6.816		1008		1116		1230
1-5/8		4.88	7.257	115		132		146	
	44	5.54	8.247		1220		1351		1489
1-3/4		5.66	8.417	133		153		169	
1-7/8		6.49	9.662	152		174		192	
	48	6.60	9.815		1452		1608		1772
2		7.39	10.994	172		198		217	
	52	7.74	11.519		1704		1887		2079
2-1/8		8.34	12.411	192		221		243	
	56	8.98	13.359		1976		2188		2411
2-1/4		9.35	13.914	215		247		272	
	60	10.31	15.336		2268		2512		2768
2-3/8		10.4	15.5	239		274		301	
2-1/2		11.6	17.3	262		302		332	
	64	11.6	17.3		2580		2860		3140
2-5/8		12.8	19.0	288		331		364	
	68	12.9	19.2		2910		3220		3550
2-3/4		14.0	20.8	314		361		397	
	72	14.5	21.5		3260		3610		3970
2-7/8		15.3	22.8	341		392		431	
	76	16.2	24.0		3630		4020		4430
3		16.6	24.7	370		425		468	
3-1/8		18.0	26.8	399		458		504	
	80	18.0	26.8		4040		4480		4930
3-1/4		19.5	29.0	429		492		541	
	84	19.7	29.3		4450		4930		5430
3-3/8		21.0	31.3	459		529		582	
	88	21.6	32.1		4880		5410		5950
3-1/2		22.7	33.8	491		564		620	

* To convert to Kilonewtons (kN), multiply tons by 8.896; 1 lb = 4.448 newtons (N)




** Available with galvanized wires at strengths 10% lower than listed, or at equivalent strength on special request.

Note: For four of the listed diameters, 1/4" through 7/16" with two-operation strands, the given strengths will be reduced by approximately 5-1/2%

NOTES:

1. INTENTIONALLY LEFT BLANK
2. ALL CABLE SLINGS TO HAVE GEPLP DRAWING NUMBER REFERENCES WITH RESPECTIVE WEIGHT CAPACITIES AND LENGTHS PERMANENTLY STAMPED AT BOTH ENDS.
3. HOOK LOAD INCLUDES LIFT HARDWARE WEIGHT WHICH IS 3 KIPS FOR MAIN UNIT LIFTS AND 1 KIP FOR ALL OTHER LIFTS.
4. CABLE SLING DESIGNATED IWRC/EIPS IS AN ABBREVIATION FOR INDEPENDENT WIRE ROPE CORE/EXTRA IMPROVED FLOW STEEL.
5. APPROVED EQUAL MUST INCLUDE A MINIMUM RATED OR WORKING LOAD OF 6 TIMES THE MINIMUM ULTIMATE LOAD OR BREAKING STRENGTH. S.W.L. = SAFE WORKING LOAD.
6. DIMENSIONS AND VALUES IN [] ARE U.S. CUSTOMARY UNITS. SI UNITS ARE GIVEN FOR REFERENCE ONLY. EQUIPMENT SHALL BE DESIGNED AND MANUFACTURED USING U.S. CUSTOMARY UNITS.
7. TURBINE ROOM LIFT IS MADE WITH LM8000 ENGINE.
8. GENERATOR LIFT RIGGING ACCOUNTS FOR APPROXIMATELY 2 KIPS.
9. DO NOT LIFT GENERATOR ROOM ON SHEETS 2 AND 3 (LIFT ARRANGEMENT WITHOUT GENERATOR) WITH GENERATOR INSIDE.
10. MUST USE SWIVEL HOIST RINGS - NO SUBSTITUTIONS.

LEGEND:

-  CENTER OF GRAVITY
-  HOOK LOCATION
-  CENTER OF GRAVITY AND HOOK LOCATION COINCIDE

ISSUED FOR CONSTRUCTION - 20190313

REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
C	SHEETS 22 & 23: REMOVED WEATHER HOODS & DAMPERS TO AUX SKID SHEET 24: RELOCATED COG OF TERMINATION & CONTROL CUBICLES	2018-10-24	DRAWN D.MEGA ENGINEER K.EDWARDS

5	4	377A1025P0000	SHACKLE	CROSBY, 1" NOM, MOD G-209-A, 12.5 TON SWL	43
5	4	G-2130-6 1/2T	SHACKLE	CROSBY, 7/8" NOM, 5 1/2 TONS SWL	42
	-	-	-	NOT USED FOR THIS PROJECT	41
	2	390A1705P0001	SLING	2 1/2" DIA X 24'-5" STD EYE BOTH ENDS 54 TONS	40
	4	J01354	SLING	2 1/2" DIA X 22'-0" B/B STANDARD EYE BOTH ENDS (6X49 IWRC EIPS) 54 TONS SWL	39
	2	390A1703P0001	SLING	2 1/2" DIA X 14'-9" STD EYES 54 TONS	38
	-	-	-	NOT USED FOR THIS PROJECT	37
	-	-	-	NOT USED FOR THIS PROJECT	36
	-	-	-	NOT USED FOR THIS PROJECT	35
	3	393A4126P0001	SLING	1 1/4" DIA X 14'-7" B/B STD EYE, 15 TONS SWL	34
	3	382A1384P0001	SLING	1 1/4" DIA X 15' B/B STD EYE, 15 TONS SWL	33
	-	-	-	NOT USED FOR THIS PROJECT	32
	-	-	-	NOT USED FOR THIS PROJECT	31
	1	868223P0001	SPREADER BAR	FABRICATION DETAIL SPREAD BAR	30
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL/SPECIFICATION	PARTS LIST	ITEM NO.

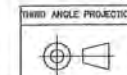
2	J04900	SLING	1/4" DIA X 20'-7", 15 TONS SWL	29	
4	J02564	SLING	1 1/4 DIA X 20'-1", 15 TONS SWL	28	
4	J01777	SLING	7/8 DIA X 10'-0", 7.6 TONS SWL	27	
6	G-2130-3 1/4T	SHACKLE	CROSBY, 5/8" NOMINAL, G-2130, 3.25 TONS SWL (CROSBY OR APPROVED EQUAL)	26	
2	393A3968P0001	SLING	2" DIA X 28'-4 3/8" B/B STD EYE BOTH ENDS (6 X 49 IWRC EIPS) 37 TONS SWL	25	
2	393A3957P0001	SLING	2" DIA X 30'-3", B/B, STD EYE BOTH ENDS, 37 TONS SWL	24	
4	G-2140-40T	SHACKLE	CROSBY, 1 3/4" NOMINAL, G-2140, 40 TONS SWL (CROSBY OR APPROVED EQUAL)	23	
4	386A3554P0001	SLING	2" DIA X 30'-0" B/B STD EYE BOTH ENDS (6 X 49 IWRC EIPS) 37 TONS SWL	22	
2	724180	SPREADER BAR	AIR FILTER ASSEMBLY SPREADER BAR	21	
8	382A9356P0001	PIN	DRAW BAR HITCH PIN, 3/8" DIA X 2 3/8" LG.	20	
8	724177	PIN	LIFTING PIN, FIXED FRAME	19	
1	377A2450P0001	LIFT STABILIZER	CROSBY 5/8" X 35'-0" ALLOY CHAIN, CLEVIS HOOK, CHAIN SHORTENER, SHACKLE	18	
-	-	-	NOT USED FOR THIS PROJECT	17	
4	J01352	SLING	1 1/4" DIA X 11'-3" B/B STD EYE BOTH ENDS (6X49 IWRC EIPS) 15 TONS SWL	16	
-	-	-	NOT USED FOR THIS PROJECT	15	
4	J00475	NUT	HEX HEAD, 5/8"-11 NC, GR 5	14	
4	J00410	WASHER	LOCK, 5/8"	13	
4	J00401	WASHER	FLAT, 5/8"	12	
4	567127	EYE BOLT	AUSTIN 5/8"-11NC x 1 3/4" 1000# SWL @ 45°	11	
4	G209-A 12-5T	SHACKLE	CROSBY, 1" NOMINAL, G-209A, 12.5 TONS SWL (CROSBY OR APPROVED EQUAL)	10	
4	724175P0001	LIFTING TRUNNION	TRUNNION, TURBINE & GENERATOR SKIDS	9	
1	285664P0001	SPREADER BAR	GENERATOR LIFT SPREADER BAR	8	
4	G-2130-17T	SHACKLE	CROSBY, 1 1/2" NOMINAL, G-2130, 17 TON SWL (CROSBY OR APPROVED EQUAL)	7	
4	J02565	SLING	2" DIA X 14'-7" B/B STD EYE BOTH ENDS (6 X 49 IWRC EIPS) 37 TONS SWL	6	
12	386A3423P0001	SHACKLE	CROSBY, 2 1/2" NOMINAL, G-2140, 85 TON SWL (CROSBY OR APPROVED EQUAL)	5	
2	270127P0001	SPREADER BAR	UNIT LIFT SPREADER BAR	4	
2	J04776	SLING	2" DIA X 23'-0" B/B STD EYE BOTH ENDS (6 X 49 IWRC EIPS) 37 TONS SWL	3	
4	J04775	SLING	2" DIA X 23'-8" B/B STD EYE BOTH ENDS (6 X 49 IWRC EIPS) 37 TONS SWL	2	
4	J04773	SLING	2 1/2" DIA X 15'-0" B/B STD EYE BOTH ENDS (6 X 49 IWRC EIPS) 54 TONS SWL	1	
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL/SPECIFICATION	PARTS LIST	ITEM NO.

USER INFORMATION

GE CLASS II (INTERNAL NON-CRITICAL)/NOT EXPORT CONTROLLED

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SIMILAR TO LM8000#	CREATED BY: D.MEGA	ED
FIRST MADE FOR:	APPROVED BY: A.COLOM	EC01355 NO.
DRAWING TYPE:	LIFT	REVISION C
DRAWING TITLE:	ARRANGEMENT	
CREATION DATE: 2018-05-29	SHEET SIZE/DWG NO. D 7274905-504225	SHEET 1 OF 24

Item #4. - Spreader bar # 270127 (unit lift)
150,000 LBS (16'-6" eye to eye)
Pipe Bar weight 1,650 LBS

Item #8 - Generator Spreader bar # 285664
244,000 LBS (10'-0" eye to eye)
Pipe Bar weight 1,400 LBS

Item #21 - Air Filter Assembly # 724180
150,000 LBS (24'-0" eye to eye)
Pipe bar weight 3,000 LBS

Item #30 - Fabrication Detail (# 868223)
60,000 LBS
3-pick Points (16'-2, 32', 36' eye to eye)
Beam Spreader bar weight 4,500 LBS

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.03 17:04:56 -0700

Date: 9/3/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	Y	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

ARB placed pan under 999 crane. minor drip.

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.04 15:58:58 -0700

Date: 9/4/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.05 16:22:15 -0700

Date: 9/5/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Jon Kimble

Form: SERC-CAQ-003

AQCMM or Delegate signature: Jon Kimble Digitally signed by Jon Kimble
Date: 2019.09.06 16:08:38 -0700

Date: September 6, 2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Affixed Green Certificates to Manitowoc 999, X-Treme and JLG Boom Lifts.

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.11 07:36:43 -0700

Date: 9/9/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.11 07:38:22 -0700

Date: 9/10/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	Y	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.16 16:26:24 -0700

Date: 9/11/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.16 16:27:28 -0700

Date: 9/12/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.16 16:28:43 -0700

Date: 9/13/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	Y	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.19 16:08:51 -0700

Date: 9/16/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	Y	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.19 16:16:02 -0700

Date: 9/17/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.19 16:16:53 -0700

Date: 9/18/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	Y	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.19 16:18:06 -0700

Date: 9/19/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.23 18:14:26 -0700

Date: 9/20/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.23 18:15:43 -0700

Date: 9/23/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	Y	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	Y	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.30 15:00:28 -0700

Date: 9/24/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.30 15:01:23 -0700

Date: 9/25/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.30 15:02:02 -0700

Date: 9/26/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
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Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.09.30 15:02:39 -0700

Date: 9/27/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
Are AQCMM equipment tags visible for diesel off-road engines greater than 50 hp operating onsite?	Y	If no, the onsite Delegate shall: 1.) Verify equipment is included on the Off-Road Diesel Equipment Inventory. 2.) Fill out tag and attach to equipment.
Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Air Quality Construction Mitigation Plan for the Stanton Energy Reliability Center Project
(16-AFC-01C)

AQCMM or Delegate name: Mike Malsy

Form: SERC-CAQ-003

AQCMM or Delegate signature: Michael Malsy Digitally signed by Michael Malsy
Date: 2019.10.01 17:48:05 -0700

Date: 9/30/2019

Diesel-Fueled Engine Control Checklist Item (AQ-SC5)	Response (yes/no)	Action
Has any off-road diesel equipment been delivered to the site today?	N	If yes, the onsite Delegate shall: 1.) Contact the equipment owner and request the required equipment/engine data, 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM and 3.) Attach equipment verification tag to equipment.
Has any off-road diesel equipment been removed from the site today?	N	If yes, the onsite Delegate shall: 1.) Collect verification tag and 2.) Update the Off-Road Diesel Equipment Inventory and submit it to the AQCMM.
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Are heavy duty diesel engines idling less than 5 minutes, to the extent practical?	Y	If no, the onsite Delegate shall notify the equipment owner and/or operator of the requirement to limit idling to the extent practical.
Are off-road engine fluid leaks visible?	N	If yes, the onsite Delegate shall notify equipment owner immediately about the need for maintenance.

ADDITIONAL NOTES:

Bill Petty's Backhoe Service, Inc.
13203 Barlin Ave.
Downey, CA 90242
amysback@ca.rr.com
562-630-3162
Fax: 562-630-7341

October 2, 2019

ARB, Inc.
26000 Commercentre Dr.
Lake Forest, CA 92630

Attn: Nick Tasich

RE: W Power, LLC – Stanton Energy Reliability Center
10711 Dale Avenue
Stanton, Ca 90680

Subject: Equipment Maintenance
Month: September 2019

Dear Mr. Tasich,

This letter serves to inform you that the following equipment on the job is being serviced and maintained, the operator does a daily walk around inspection each morning. The operator has the reports with him for the backhoe and you can see the reports at any time.

D & S Backhoe (Kent) 580 SN–Backhoe: Serial Number: JJ6N585NLECT05659

If you should have any questions, please let me know.

Respectfully submitted,



Patricia Petty
President

<u>Date Move on</u>	<u>Date Move off</u>	<u>CARB ID 6 digit (EIN)</u>	<u>SERC ID</u>	<u>Mfr</u>	<u>Model/ Description</u>	<u>Model Year</u>	<u>Serial Number</u>	<u>Owner</u>
2/20/2019	onsite	BX3T54	SERC_003	CASE	580 SN-Backhoe	2014	JJ6N585NLECT05659	D&S BACKHOE SERVICE
<u>Renter</u>	<u>Mfr</u>	<u>Engine Family</u>	<u>Engine Model</u>	<u>Displacement (L)</u>	<u>Model Year</u>	<u>Serial Number</u>	<u>Diesel (hp)</u>	<u>Tier</u>
Bill's Backhoe	FPT INDUSTRIAL	EFPX034DD	FSHFL4ADD	207 CU IN	2014	215914	97	T4
<u>Engine Certification on File</u>	<u>Compliance Tag</u>	<u>Notes</u>						
u-r-015-0283	Green tag issued 02/19/2019							



October 1, 2019

ARB, Inc. – Stanton Energy Reliability Center
26000 Commercentre Drive
Lake Forest, Ca 92630

Attn: Nick Tasich
ARB, Inc.

RE: Maintenance and Inspection of Equipment

Dear Mr. Tasich:

This letter confirms that Maxim performs daily inspections and required maintenance at the regularly scheduled intervals for the previous month for all on-site equipment. See below for Maxim equipment currently on-site.

Date Arrived	Date Removed	CARB ID 6 digit (EIN)	Manufacturer	Model/Description	Model Year	Serial Number	Owner	Renter
8/31/2019	onsite	TX5P83	Manitowoc 999	Crawler Crane	2002	9991103	Maxim	Maxim

Respectfully,

A handwritten signature in blue ink, appearing to read "Charlie Giovanni".

Charlie Giovanni
Maxim Crane
Project Manager



1301 SOUTH STATE COLLEGE BLVD

Fullerton, CA. 92831

Office : 714-871-5712

Fax : 714-871-1107

From: United Rentals, Inc.

To: ARB/Newtron LLC.

Subject: LETTER OF MAINTENANCE VERIFICATION

The intention of this letter is to verify that all preventative maintenance and/or service bulletins are current in accordance with the manufacturer's and ARB's / Newtron's recommendations during the month of May 2019.

This is for the equipment listed below at:

10711 DALE ST

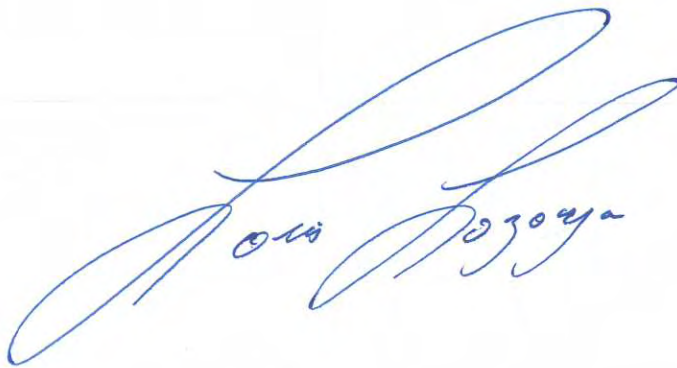
STANTON, CA. 90680

<u>DESCRIPTION</u>	<u>EIN NUMBER</u>	<u>SERIAL NUMBER</u>
GENIE VARIABLE REACH FORKLIFT	JW5N58	10366180
JLG BOOM LIFT 60' ART	RE4F94	10129857
JLG BOOM LIFT 60' ART	LR7P73	10755669
[REDACTED]	[REDACTED]	[REDACTED]
SKYTRAK VARIABLE REACH FORKLIFT	HN6U33	10478100
JCB 7K VARIABLE REACH FORKLIFT	RV7M68	10507929
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]		

All info verified by: United Rentals, Inc.

Sergio Gonzalez

Territory Manager

A handwritten signature in blue ink, appearing to read "Sergio Gonzalez". The signature is stylized with large, flowing loops for the first and last names, and the middle name "Gonzalez" is written in a smaller, more cursive script between them.



October 1, 2019

W Power, LLC – Stanton Energy Reliability Center
10711 Dale Avenue
Stanton, Ca 90680

Attn: Tim Bofman
Project Compliance

RE: Maintenance and Inspection of Equipment

Dear Mr. Bofman:

This letter confirms that ARB performs daily inspections and required maintenance at the regularly scheduled intervals for the previous month for all on-site equipment. See attached *AQCMF Equipment Log* for ARB equipment currently on-site.

Date Arrived	Date Removed	CARB ID 6 digit (EIN)	SERC ID	Manufacturer	Model/Description	Model Year	Serial Number	Owner	Renter
2/4/2019	onsite	VC6G63	SERC_001	Xtreme	XR1255 Forklift	2016	XR1255031693102	ARB	N/A
3/22/2019	onsite	SF7A56	SERC_016	CAT	Rough Terrain Forklift	2012	KDE00312	ARB	ARB
5/22/2019	Onsite	NG3U86	SERC_023	CAT	259D Skid Steer Loader	2018	FTL14586	ARB	ARB
6/18/2019	Onsite	WK9J63	SERC_024	Deere	210l Skip Loader	2016	1T8210ELLGJ893464	ARB	N/A
8/7/2019	Onsite	VT6H48	SERC_027	Xtreme Manufacturing	XR2045 Forklift	2018	XR2045-11-18039329	Ellis	ARB
9/16/2019	Onsite	WP9E86	SERC_034	JLG	660SJ Manlift	2015	300206993	Sunstate	ARB
9/23/2019	Onsite	XG7V58	SERC_035	Grove	GRT880 Crane	2017	235778	ARB	ARB

Respectfully,

Steven Fischer
ARB, Inc.
Project Manager

PR 1862 - S/N OMRP00571

H3937 EMS

EQUIPMENT MAINTENANCE & REPAIR REVIEW

Make: AA Ser No: OMRP00571 Model: XQ200N Div: E P
Eqp Sts: R Inv Sts: R Warr types:
Last Known SMU: 8,099.0 H (H,M,K) Acquis Dt: 8/13/14 Labor Ho
Parts: 7,296.36 Labor: 18,377.76 Misc:

Total Parts, Labor, Miscellaneous and Flat Rate All:

SEGMENT DETAIL

Invoice Dt 10/04/19 Repairs 250 HOUR PM 250-HOUR PM S
Invc/Doc WX63458 Seg 01 Dt Open 9/12/19 Pts
In-Proc Days 23 Lst SMU 8006.0 Labor Hours .00 Labr
Customer P336184 RENTAL FLEET CT R & M Msc
PIP No Totl
Warr Reference Type Code Claim No Cla

Invoice Dt 8/21/19 Repairs QRS CUSTOMER DAMAGE LIGHTS-ADJ/RE
Invc/Doc LW20137 Seg 01 Dt Open 8/14/19 Pts
In-Proc Days 8 Lst SMU 7890.0 Labor Hours 3.00 Labr
Customer P336184 RENTAL FLEET CT R & M Msc
PIP No Totl
Warr Reference Type Code Claim No Cla

CF3:Fold

OUT MRS. 8007

9/23 IN MRS. 8099

Attachment 4 –Biological Resources

2600 Michelson Drive, Suite 500
Irvine, CA 92612
United States
www.jacobs.com

Subject Stanton Energy Reliability Center (16-AFC-1)
Biological Resources Monthly Compliance Report
September 2019

To: Tim Bofman, SERC, LLC

From: Ava Edens, Jacobs
 SERC CEC Designated Biologist

Date: October 4, 2019

Copies: Sharon Stureman, SERC, LLC
 Doug Davy, Jacobs
 Karen Parker, Jacobs

1. Introduction

This September 2019 Monthly Compliance Report (MCR) summarizes biological resources monitoring activities conducted and documentation prepared from September 1 through September 30, 2019 for the Stanton Energy Reliability Center (SERC) (16-AFC-1C). The MCR is in accordance with the current (October 2018) Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP). The following biological resources California Energy Commission (CEC) License Conditions of Certification (COCs) pertaining to monitoring activities covered by this MCR include, but are not limited to:

- BIO-2: Designated Biologist Duties
- BIO-5: Worker Environmental Awareness Program (WEAP)
- BIO-6: Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP)
- BIO-7: General Impact Avoidance Mitigation Measures
- BIO-8: Pre-construction Nest Surveys and Impact Avoidance and Minimization Measures for Breeding Birds

2. Monitoring Summary

This section summarizes biological monitoring activities conducted during the September 2019 reporting period. Construction started at the SERC site (located at 10711 Dale Avenue, Stanton, Orange County, California) on February 19, 2019 after the Energy Commission issued the Notice to Proceed.

During the September 2019 reporting period biological monitoring was conducted on the SERC site weekly and daily during Horizontal Directional Drilling (HDD) under Carbon Creek Channel (per BIO-9).

Daily Biological Resources Compliance Monitoring Logs are provided in Appendix A. A list of wildlife species observed during the monitoring events are included in Appendix B.

2.1 Activities Monitored

SERC construction activities were monitored weekly from September 1 through September 30, 2019. Locations monitored included the SERC site (western and eastern parcels), Bethel Romanian Pentecostal Apostolic Church parking lot (located at 10801 Dale Avenue, Stanton), Southern California Edison Laydown Yards (western and eastern), Court Street Storage Yard (located at 10662 and 10622 Court Avenue, Stanton), St. John the Baptist Greek Orthodox Church Laydown, and Natural Gas Pipeline (along Dale Avenue from La Palma to West Orange Avenue). HDD activities pertaining to drilling under Carbon Creek Channel (between West Crescent Avenue and West Orange Avenue) for the Natural Gas Pipeline along Dale Avenue, were monitored daily, from September 10-16, 2019, per BIO-9.

Construction activities at the SERC site included pipe fabrication, construction of ductwork, above-ground infrastructure work, ground contouring and compaction, and utility bridge construction across Stanton Storm Channel. Construction on the natural gas pipeline started on August 19, 2019. Pipeline construction activities included asphalt cutting/grinding and removal, installation and welding of steel plates, trench excavation and shoring, potholing, HDD under Carbon Creek Channel, and use of the laydown yard at St. John the Baptist Greek Orthodox Church.

2.2 Nesting Birds

No protected active nests were observed during the September 2019 reporting period. Bird species observed during biological monitoring are included in Appendix B.

2.3 Special-Status Species

One special status species, the Cooper's hawk (*Accipiter cooperii*) (California Watch List), was observed during September 2019. A list of wildlife species observed during biological monitoring in September 2019 is included in Appendix B.

2.4 Wildlife Injuries and Mortalities

No injured wildlife species were observed within the SERC project locations or survey areas during the September 2019 reporting period.

2.5 Hazardous Material Spills

No hazardous material spills occurred at the project site during the September 2019 reporting period.

2.6 Non-Compliance Report

During the September 2019 reporting period incident reports were issued pertaining to drilling under Carbon Creek Channel (between West Crescent Avenue and West Orange Avenue) for the Natural Gas Pipeline along Dale Avenue. In compliance with COC BIO-9, the Designated Biologist notified the CEC Compliance Project Manager (CPM) and California Department of Fish and Wildlife (CDFW) of frac-outs that occurred on September 9, 14, and 15, 2019. The frac-out incident reports are included in Appendix C.

3. WEAP Training

All on-site staff received WEAP training prior to starting work on site. A total of 84 persons completed the SERC WEAP training in September 2019. The hardcopy sign-in training logs for the monthly reporting period are included in Appendix D.

Appendix A
Biological Resources Compliance
Monitoring Logs

Stanton Energy Reliability Center (SERC)				
BIOLOGICAL RESOURCES				
COMPLIANCE MONITORING LOG				
Date		Monitor		Time (Begin-End)
September 05, 2019		Ken Levenstein		07:00 – 15:30
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
70 – 88	0 – 7	0 in	Good	Partly cloudy early, then sunny and warm
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction:</p> <p>Western SERC Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; dust suppression, pipe fabrication, receiving and movement of equipment/materials; reporting.</p> <p>Eastern SERC Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; ongoing activities related to construction of ductwork, utility rack, generator, and stack foundations, piecemeal excavation, ground contouring and compaction, dust suppression, utility bridge construction, delivery of gas compressor and placement by crane, movement of equipment/materials; reporting. (see Photo Log).</p> <p>Bethel Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p> <p>Western SCE Laydown – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; surveyed Parcel and surrounding area (as accessible) for nesting activity, receiving and movement of equipment/materials, reporting.</p> <p>Eastern SCE Laydown – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; surveyed Parcel and surrounding area (as accessible) for nesting activity, receiving and movement of equipment/materials, reporting.</p> <p>Court Street Storage Yard – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; surveyed Parcel and surrounding area (as accessible) for nesting activity. (see Photo Log).</p> <p>Greek Orthodox Church Laydown – Surveyed church parking lot and surrounding area (as accessible) for nesting activity. Checked for potential bird/wildlife/Project interactions and compliance with COCs. Pipe fabrication, receiving and movement of equipment/materials, reporting. (see Photo Log).</p> <p>Dale Avenue Pipeline, Northern and Middle Sections – Surveyed area adjacent to pipeline (as accessible) for nesting activity. Checked for potential bird/wildlife/Project interactions and compliance with COCs. Excavation, pipe installation, slurry pour, reporting. (see Photo Log).</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> None <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> None 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> No specific items requiring follow-up Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer (<i>Charadrius vociferous</i>), western gull (<i>Larus occidentalis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), black phoebe (<i>Sayornis nigricans</i>), American crow (<i>Corvus brachyrhynchos</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1



Location	SERC – Greek Orthodox Church Laydown	Description	View south-southwest from northern portion of Greek Orthodox Church Laydown at monitors discussing the day's activities (left) and a forklift moving plywood sheets for shoring (right).
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Photo 2



Location	SERC – Greek Orthodox Church Laydown	Description	View southeast from eastern portion of Greek Orthodox Church Laydown at pipefitters about to begin work.
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Date & Time: Thu, Sep 05, 2019, 08:12:35 PDT
Position: 033.806359° N / 117.990664° W
Altitude: 87ft
Datum: WGS-84
Azimuth/Bearing: 224° S44W 3982mils (True)
Elevation Angle: +31.5°
Horizon Angle: -01.8°
Zoom: 1X



Location	SERC – Court Street Storage Yard	Description	View south-southwest from Main St. of Court Street Storage Yard entrance gate and behind it, a crane that has been stored there temporarily.
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Date & Time: Thu, Sep 05, 2019, 09:13:27 PDT
Position: 033.806929° N / 117.985923° W
Altitude: 81ft
Datum: WGS-84
Azimuth/Bearing: 190° S10W 3378mils (True)
Elevation Angle: +34.4°
Horizon Angle: -02.6°
Zoom: 1X



Location	SERC – Eastern Parcel	Description	View west from western portion of Eastern Parcel at 999 crawler crane in position on pad, ready to lift gas compressor unit into place. This crane has a 275-ton (U.S.) lifting capacity.
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Photo 5

Date & Time: Thu, Sep 05, 2019, 09:13:49 PDT
Position: 033.806895° N / 117.986028° W
Altitude: 91ft
Datum: WGS-84
Azimuth/Bearing: 237° S57W 4213mils (True)
Elevation Angle: +35.7°
Horizon Angle: -02.9°
Zoom: 1X



Location

SERC – Eastern Parcel

Description

View southwest from western portion of Eastern Parcel at riggers getting 999 crawler crane ready to lift gas compressor unit into place.

Photo 6

Date & Time: Thu, Sep 05, 2019, 09:15:42 PDT
Position: 033.806879° N / 117.985824° W
Altitude: 77ft
Datum: WGS-84
Azimuth/Bearing: 055° N55E 0978mils (True)
Elevation Angle: +33.1°
Horizon Angle: -03.0°
Zoom: 1X



Location

SERC – Eastern Parcel

Description

View southwest of flatbed truck delivering gas compressor unit to the Eastern Parcel.

Photo 7

Date & Time: Thu, Sep 05, 2019, 09:17:41 PDT
Position: 033.807002°N / 117.985029°W
Altitude: 73ft
Datum: WGS-84
Azimuth/Bearing: 306° N54W 5440mils (True)
Elevation Angle: +36.0°
Horizon Angle: -03.3°
Zoom: 1X



Location

SERC – Eastern Parcel

Description

View west-southwest from eastern portion of Eastern Parcel at concrete pour in process.

Photo 8

Date & Time: Thu, Sep 05, 2019, 09:22:45 PDT
Position: 033.806717°N / 117.985742°W
Altitude: 81ft
Datum: WGS-84
Azimuth/Bearing: 317° N43W 5636mils (True)
Elevation Angle: +35.8°
Horizon Angle: -03.8°
Zoom: 1X



Location

SERC – Eastern Parcel

Description

View west from central portion of Eastern Parcel at flatbed truck that has just backed into position with gas compressor unit that will be lifted into position by 999 crane.

Photo 9

Date & Time: Thu, Sep 05, 2019, 09:43:42 PDT
Position: 033.806958°N / 117.986357°W
Altitude: 73ft
Datum: WGS-84
Azimuth/Bearing: 296° N64W 5262mils (True)
Elevation Angle: +34.9°
Horizon Angle: -02.5°
Zoom: 1X



Location

SERC – Eastern Parcel

Description

View west-southwest from western portion of Eastern Parcel at new infrastructure in place.

Photo 10

Date & Time: Thu, Sep 05, 2019, 09:44:55 PDT
Position: 033.806949°N / 117.986651°W
Altitude: 75ft
Datum: WGS-84
Azimuth/Bearing: 208° S28W 3698mils (True)
Elevation Angle: +32.9°
Horizon Angle: -02.1°
Zoom: 1X



Location

SERC – Eastern Parcel

Description

View south-southwest from vehicle bridge at ongoing construction of utility bridge. Portion of bridge at left in photo crosses the Stanton Storm Channel.

Photo 11



Location	Dale Avenue Gas Pipeline – Northern Section	Description	View north-northeast along Dale Avenue of cement trucks staged and ready to pour slurry into pipeline excavation.
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Photo 12



Location	Dale Avenue Gas Pipeline – Northern Section	Description	View north of excavator working on natural gas pipeline adjacent to Buena Park Downtown Mall.
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Photo 13

Date & Time: Thu, Sep 05, 2019, 12:55:43 PDT
 Position: 033.841597°N / 117.985065°W
 Altitude: 100ft
 Datum: WGS-84
 Azimuth/Bearing: 093° S87E 1653mils (True)
 Elevation Angle: +30.2°
 Horizon Angle: -02.7°
 Zoom: 1X



Location

Dale Avenue Gas Pipeline –
Northern Section

Description

View southeast from south of the Buena Park Downtown Mall at ongoing pipeline trench excavation.

Photo 14

Date & Time: Thu, Sep 05, 2019, 13:37:58 PDT
 Position: 033.806953°N / 117.986273°W
 Altitude: 79ft
 Datum: WGS-84
 Azimuth/Bearing: 086° N86E 1529mils (True)
 Elevation Angle: +33.3°
 Horizon Angle: -02.0°
 Zoom: 1X



Location

SERC – Eastern Parcel

Description

View southeast from western portion of Eastern Parcel at gas compressor unit that has been lifted into position on concrete foundation by 999 crane (visible in background).

Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date					Monitor		Time (Begin-End)	
September 10, 2019					Ken Levenstein		07:00 – 20:00	
Temperature (°F)		Wind (mph)	Precipitation amount	Visibility	Weather Comment			
68 – 79		0 – 6	0 in	Good	cloudy in the morning, then sunny			
Location(s) of Work Site Activities Monitored								
<p>SERC – Bio-monitoring during Project construction.</p> <p>Dale Avenue Pipeline, Middle Section (between W Crescent Avenue and W Orange Avenue), Horizontal Directional Drilling (HDD) under Carbon Creek – Checked for potential bird/wildlife/Project interactions and compliance with COCs. Monitored for frac-out. (see Photo Log).</p>								
Summary of Biological Resources Monitoring Observations								
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • None <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • None 								
Items Requiring Action/Follow-up								
<ul style="list-style-type: none"> • No specific items requiring follow-up Monitoring of work will continue during Project construction activities. 								
Wildlife Species Observed:								
<p>Birds: western gull (<i>Larus occidentalis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), American crow (<i>Corvus brachyrhynchos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>								

Photo 1



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View north-northeast along Dale Avenue north of the intersection with Lincoln Avenue at recycler unit at right and workers getting ready to begin drilling south towards Carbon Creek.
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Photo 2



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View north along Dale Avenue north of the intersection with Lincoln Avenue at drilling rig ready to begin work. Core sections staged at right and crane for lifting at center of photo.
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Photo 3



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View of mudpit adjacent to HDD entry point for receiving fluid from bore hole prior to processing by the recycler.
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Photo 4



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View north along Dale Avenue north of the intersection with Lincoln Avenue at sections of drill core ready for use.
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Photo 5



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View north-northeast along Dale Avenue at driller using a wireless receiving device to assess exact location and depth of drill head.
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Photo 6



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View south-southeast along Dale Avenue north of the intersection with Lincoln Avenue at excavator removing steel plates over HDD route.
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Photo 7



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View of HDD entry point.
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Photo 8



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Another view of HDD entry point.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date					Monitor		Time (Begin-End)	
September 11, 2019					Ken Levenstein		07:00 – 21:15	
Temperature (°F)		Wind (mph)	Precipitation amount	Visibility	Weather Comment			
64 – 81		0 – 5	0 in	Good	Sunny and warm			
Location(s) of Work Site Activities Monitored								
<p>SERC – Bio-monitoring during Project construction.</p> <p>Dale Avenue Pipeline, Middle Section (between W Crescent Avenue and W Orange Avenue), Horizontal Directional Drilling (HDD) under Carbon Creek – Checked for potential bird/wildlife/Project interactions and compliance with COCs. Monitored for Frac-out. (see Photo Log).</p>								
Summary of Biological Resources Monitoring Observations								
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • None <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • None 								
Items Requiring Action/Follow-up								
<ul style="list-style-type: none"> • No specific items requiring follow-up Monitoring of work will continue during Project construction activities. 								
Wildlife Species Observed:								
<p>Birds: western gull (<i>Larus occidentalis</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), American crow (<i>Corvus brachyrhynchos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorrhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>								

Photo 1



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View of mudpit adjacent to HDD entry point for receiving fluid from bore hole prior to processing by the recycler.
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Photo 2



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View south along Dale Avenue north of the intersection with Lincoln Avenue at recycler (at left) and truck (at right) where readout of data from drill head is being monitored.
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Photo 3



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View north-northeast along Dale Avenue north of the intersection with Lincoln Avenue at HDD rig operator in cab of machine, directing the borer (at center of photo) angle and speed of entry.
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Photo 4



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View of workers splicing locator line for insertion into the next boring section.
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Photo 5



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View north along Dale Avenue north of the intersection with Lincoln Avenue at recycler unit (at right) and drilling activities in the background.
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Photo 6



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View south-southeast along Dale Avenue north of the intersection with Lincoln Avenue at piles of tailings being extruded from the mud pit recycler.
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Photo 7



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View of mud pit in foreground, HDD entry point at center left, and workers at drilling rig, just beyond.
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Photo 8



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Another view of HDD entry point.
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Stanton Energy Reliability Center (SERC)				
BIOLOGICAL RESOURCES				
COMPLIANCE MONITORING LOG				
Date		Monitor(s)		Time (Begin-End)
September 12, 2019		Ken Levenstein Ava Edens		07:00 – 17:30 16:20-20:20
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
64 – 88	0 – 4	0 in	Good	Sunny and warm
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction:</p> <p>Dale Avenue Natural Gas Pipeline, middle section (between W Crescent Avenue and W Orange Avenue), Horizontal Directional Drilling (HDD) under Carbon Creek – Checked for potential bird/wildlife/Project interactions and compliance with COCs. Monitored for Frac-out. (see Photo Log).</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> None <p>Nesting Bird Observations:</p> <p>None</p> <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> None <p>Other Observations/Comments:</p> <p>At 0930, a crew member spotted a small amount of drilling mud that had begun seeping from an old fissure in the Dale Avenue asphalt. Drilling was immediately halted and crew was dispatched to initiate clean-up work. The crew had equipment on-site for containment and clean-up. The equipment included fiber-rolls, shovels, disposal containers, a Ditch-Witch vacuum machine mounted on a trailer, steam cleaning equipment, and a large vacuum truck. All traces of a frac-out were removed and drilling resumed. Lookouts were stationed under and on the Dale Avenue Bridge to watch for additional frac-outs. At 1106, drilling mud was detected by the observer under the bridge, oozing from a 3-inch diameter drain pipe that emptied onto the dry sand of Carbon Creek under the bridge. Drilling was immediately halted, and the drilling mud contained and removed (approximately one wheel-barrow load had leaked), first by placing it in a drum, and then initiating use of the Ditch Witch vacuum machine. When the frac-out in Carbon Creek was cleaned and contained, drilling resumed. Drilling mud within the containment area was vacuumed as it appeared by members of California Boring, using a larger vacuum truck that was brought in for the purpose and stationed on the east side of the bridge, its large diameter vacuum tube reaching the dry streambed below. The north end of the HDD exit trench was reached in an hour or so and use of drilling mud ceased. A crew member remained in Carbon Creek with the vacuum at the ready for the remainder of the work day (ending at 2020). All traces of the frac-out had been removed and appeared stable at the end of the work day.</p>				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> CEC and CDFW to be notified of frac-out per BIO-9. 				
Wildlife Species Observed:				
<p>Birds: western gull (<i>Larus occidentalis</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), American crow (<i>Corvus brachyrhynchos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				
Photo 1				



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Drilling mud seeping from an old fissure in the Dale Avenue asphalt north of Carbon Creek. View facing south.
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Photo 2



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Drilling mud seeping from an old fissure in the Dale Avenue asphalt north of Carbon Creek. View facing south.
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Photo 3



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Clean-up of drilling mud seeping from an old fissure in the Dale Avenue asphalt north of Carbon Creek. View facing north.
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Photo 4



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Clean-up of drilling mud seeping from an old fissure in the Dale Avenue asphalt north of Carbon Creek. View facing west.
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Photo 5



Location	Description
Dale Avenue Gas Pipeline – Middle Section – HDD	Clean-up of drilling mud seeping from an old fissure in the Dale Avenue asphalt north of Carbon Creek. View facing south.

Photo 6



Location	Description
Dale Avenue Gas Pipeline – Middle Section – HDD	Containment of drilling mud in Carbon Creek under the Dale Avenue bridge. View facing north.

Photo 7



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Containment and clean-up of drilling mud in Carbon Creek under the Dale Avenue bridge. View facing north.
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Photo 8



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Containment and clean-up of drilling mud in Carbon Creek under the Dale Avenue bridge. View facing north.
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Photo 9

Date & Time: Thu, Sep 12, 2019, 12:59:00 PDT
Position: 033.830040°N / 117.984569°W
Altitude: 82ft
Datum: WGS-84
Azimuth/Bearing: 351° N09W 6240mils (True)
Elevation Angle: +33.3°
Horizon Angle: -00.6°
Zoom: 1X



Location

Dale Avenue Gas Pipeline –
Middle Section – HDD

Description

Vacuum truck used for clean-up of drilling mud in Carbon Creek
under the Dale Avenue bridge. View facing north.

Photo 10



Location

Dale Avenue Gas Pipeline –
Middle Section – HDD

Description

Crew member in Carbon Creek under the Dale Avenue bridge
watching contained frac-out location as drilling resumes. View
facing northwest.

Stanton Energy Reliability Center (SERC)				
BIOLOGICAL RESOURCES				
COMPLIANCE MONITORING LOG				
Date		Monitor		Time (Begin-End)
September 13, 2019		Ken Levenstein		06:45 – 19:45
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
66 – 94	0 – 5	0 in	Good	Sunny and warm
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Dale Avenue Pipeline, Middle Section (between W Crescent Avenue and W Orange Avenue), Horizontal Directional Drilling (HDD) under Carbon Creek – Checked for potential bird/wildlife/Project interactions and compliance with COCs. Monitored for Frac-out. (see Photo Log).</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • None <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • None 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • Any evidence of effects due to the frac-out will be watched for. 				
Wildlife Species Observed:				
<p>Birds: western gull (<i>Larus occidentalis</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), black phoebe (<i>Sayornis nigricans</i>), American crow (<i>Corvus brachyrhynchos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View from Carbon Creek of large hydro-vac truck staged in case of frac-out at site of previous day's incident.
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Photo 2



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View of worker under Carbon Creek Bridge monitoring for potential frac-out.
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Photo 3



Location

Dale Avenue Gas Pipeline –
Middle Section – HDD

Description

View of containment set-up at site of previous day's frac-out under
the Carbon Creek Bridge.

Photo 4



Location

Dale Avenue Gas Pipeline –
Middle Section – HDD

Description

View north from south of Carbon Creek at a second drill rig set up at
the exit pit.

Photo 5



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Another view (south) from south of Carbon Creek at second drill rig set up at the exit pit.
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Photo 6



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View northwest from mud pit at drillers working on primary drill rig at entry pit.
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Photo 7



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View north at primary drill rig ready to begin drilling again with wireless system set up for collection of real-time data from bore head.
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Photo 8



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Mud flowing into exit pit ahead of bore head.
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Photo 9



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Bore head and attached rods emerge from mud in exit pit, heading south.
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Photo 10



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View south along Dale Avenue south of Carbon Creek at drillers cleaning bore head and attached rods as they emerge from exit pit, heading south
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Photo 11

Date & Time: Fri, Sep 13, 2019, 16:39:33 PDT
Position: 033.829489°N / 117.984762°W
Altitude: 85ft
Datum: WGS-84
Azimuth/Bearing: 086° N86E 1529mils (True)
Elevation Angle: +27.8°
Horizon Angle: -03.8°
Zoom: 1X



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Another view (see Photos 9 and 10) south along Dale Avenue south of Carbon Creek at bore head and attached rods after they emerged from exit pit, heading south
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Photo 12

Date & Time: Fri, Sep 13, 2019, 17:29:28 PDT
Position: 033.833031°N / 117.984855°W
Altitude: 89ft
Datum: WGS-84
Azimuth/Bearing: 021° N21E 0373mils (True)
Elevation Angle: +23.6°
Horizon Angle: -01.4°
Zoom: 1X



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	View northeast of reamer attached to rods at entry pit, ready to be pushed through bore hole the following morning.
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Stanton Energy Reliability Center (SERC)				
BIOLOGICAL RESOURCES				
COMPLIANCE MONITORING LOG				
Date		Monitor		Time (Begin-End)
September 14, 2019		Cara Snellen		0700 – 1200
		Ken Levenstein		1200 - 2330
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
66 – 94	1 – 6	0 in	Good	Morning fog then sunny and hot
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction:</p> <p>Dale Avenue Natural Gas Pipeline, middle section (Between W Crescent Avenue and W Orange Avenue), Horizontal Directional Drilling (HDD) under Carbon Creek – checked for potential bird/wildlife/Project interactions and compliance with COCs. Monitored for frac-out. (see Photos).</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed: A Cooper's hawk (<i>Accipiter cooperii</i>; California Department of Fish and Wildlife Service [CDFW] Watch List [WL]) was observed flying over the site.</p> <p>Nesting Bird Observations: None</p> <p>Other Biological Resources Observations: None</p> <p>Other Observations/Comments:</p> <p>At approximately 1940, the HDD crew observed the return flow of drilling mud had ceased to be observed at the bore hole and no flow was entering the exit hole. There was also no flow observed at the location of two earlier frac-outs, the first, on Dale Avenue just north of the bridge, and the second, under the bridge, level with the Carbon Creek streambed. Drilling was halted and a search ensued for a possible frac-out at a new location. Within several minutes, drilling mud began appearing in fissures along the Dale Avenue roadbed, 1 to 3 meters E-NE of the first frac-out.</p> <p>Members of the crew immediately began cleaning up the mud with shovels, a bucket, a Ditch-Witch and a hydro-vac truck. At its largest point, the mud covered an area approximately 25 to 35 feet by a varying width of 1 to 5 feet and was 0.25 to 0.75 inches deep at the eastern Dale Avenue gutter and above it, in the dirt, adjacent to the curb. The storm drains had been blocked off, so no mud entered the storm drains and no mud reached Carbon Creek. The mud continued to leak slowly through the fissures in the asphalt and, as it did, was vacuumed up by workers on the Ditch-Witch and/or the hydro-vac. In addition, the crew cleaned the asphalt where the frac-out had occurred with a high-pressure water hose (city water). Most of the water turned to mist and evaporated and a wet spot was left on the asphalt. Little to no water run-off was observed. The mud ceased seeping out of the pavement at approximately 2035.</p> <p>A decision was made to continue to push through with the drilling and additional minor seepage of mud was vacuumed up as it appeared. By the end of work, evidence of a frac-out had been largely removed.</p>				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> CEC and CDFW to be notified of frac-out per BIO-9. Monitoring of work will continue during HDD activities. 				
Wildlife Species Observed:				
<p>Birds: Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), black phoebe (<i>Sayornis nigricans</i>), American crow (<i>Corvus brachyrhynchos</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>), Cassin's kingbird (<i>Tyrannus vociferans</i>), red-tailed hawk (<i>Buteo jamaicensis</i>), Allen's hummingbird (<i>Selasphorus sasin</i>), great egret (<i>Ardea alba</i>), Cooper's hawk.</p>				

Photo 1



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View north of drill rig at entry/north hole pushing feeding drill pipe and reamer.
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Photo 2



Location	Dale Avenue Gas Pipeline – Middle Section HDD		View south at drill pipe exiting south hole as part of reaming process.
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Photo 3



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View northwest of crew removing sections of drill pipe (rods) as it exits south hole.
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Photo 4



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View north of transfer of HDD mud into haul truck for removal from site.
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Photo 5



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View northwest from north of bridge over Carbon Creek at worker cleaning up frac-out with hydro-vac.
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Photo 6



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View southwest from north of bridge over Carbon Creek at workers cleaning up frac-out with Ditch-Witch.
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Photo 7

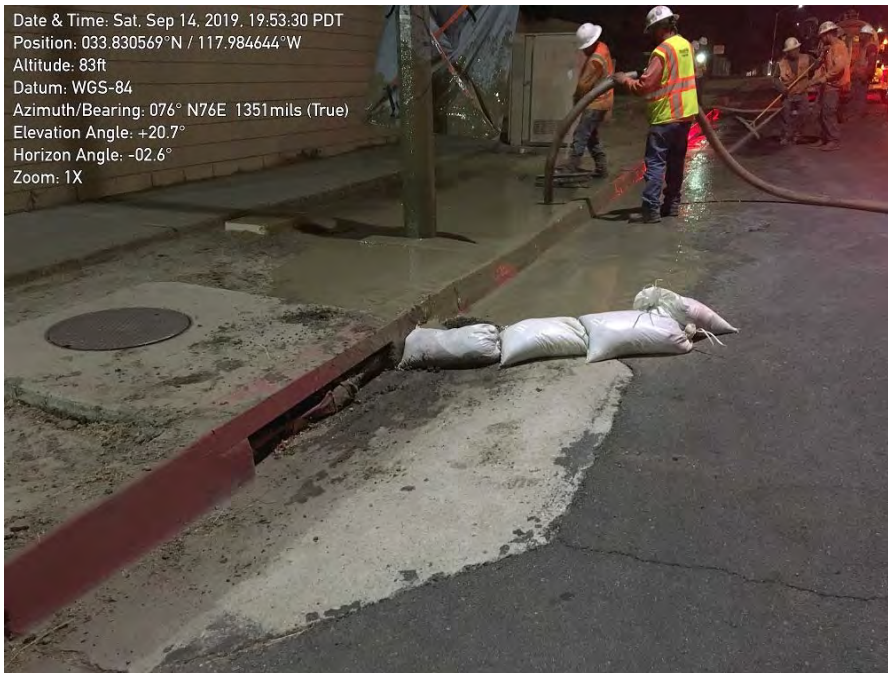
Date & Time: Sat, Sep 14, 2019, 19:49:58 PDT
Position: 033.830346°N / 117.984599°W
Altitude: 84ft
Datum: WGS-84
Azimuth/Bearing: 354° N06W 6293mils (True)
Elevation Angle: +26.1°
Horizon Angle: -02.6°
Zoom: 1X



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View northwest from north of bridge over Carbon Creek at workers cleaning up frac-out with hydro-vac, Ditch-Witch, shovels, and brooms.
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Photo 8

Date & Time: Sat, Sep 14, 2019, 19:53:30 PDT
Position: 033.830569°N / 117.984644°W
Altitude: 83ft
Datum: WGS-84
Azimuth/Bearing: 076° N76E 1351mils (True)
Elevation Angle: +20.7°
Horizon Angle: -02.6°
Zoom: 1X



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View south-southeast from north of bridge over Carbon Creek at workers cleaning up frac-out in gutter and above curb.
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Photo 9

Date & Time: Sat, Sep 14, 2019, 19:57:19 PDT
Position: 033.830239°N / 117.984622°W
Altitude: 84ft
Datum: WGS-84
Azimuth/Bearing: 005° N05E 0089mils (True)
Elevation Angle: +27.1°
Horizon Angle: -03.5°
Zoom: 1X



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View north from north of bridge over Carbon Creek along Dale
Avenue at workers cleaning up frac-out.

Photo 10

Date & Time: Sat, Sep 14, 2019, 19:58:08 PDT
Position: 033.830446°N / 117.984634°W
Altitude: 92ft
Datum: WGS-84
Azimuth/Bearing: 000° N00E 0000mils (True)
Elevation Angle: +27.1°
Horizon Angle: -02.2°
Zoom: 1X



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View north from north of bridge over Carbon Creek along Dale
Avenue at workers cleaning up frac-out. High-pressure wash being
used to remove mud from pavement.

Photo 11

Date & Time: Sat, Sep 14, 2019, 22:54:39 PDT
Position: 033.829494°N / 117.984767°W
Altitude: 87ft
Datum: WGS-84
Azimuth/Bearing: 099° S81E 1760mils (True)
Elevation Angle: +30.7°
Horizon Angle: -01.5°
Zoom: 1X



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View north near HDD exit hole south of bridge over Carbon Creek
along Dale Avenue at workers removing rods from bore hole.

Photo 12

Date & Time: Sat, Sep 14, 2019, 23:12:34 PDT
Position: 033.832879°N / 117.984593°W
Altitude: 102ft
Datum: WGS-84
Azimuth/Bearing: 351° N09W 6240mils (True)
Elevation Angle: +29.0°
Horizon Angle: -02.7°
Zoom: 1X



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View northwest from north of Lincoln Avenue at workers erecting
sound baffle to deaden the noise from the recycler.

Stanton Energy Reliability Center (SERC)				
BIOLOGICAL RESOURCES				
COMPLIANCE MONITORING LOG				
Date		Monitor		Time (Begin-End)
September 15, 2019		Cara Snellen		0700 – 1200
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
65 –92	0-2	0 in	Good	Morning fog then sunny and hot
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction:</p> <p>Dale Avenue Natural Gas Pipeline, middle section (Between W Crescent Avenue and W Orange Avenue), Horizontal Directional Drilling (HDD) under Carbon Creek – checked for potential bird/wildlife/Project interactions and compliance with COCs.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed: None</p> <p>Nesting Bird Observations: None</p> <p>Other Biological Resources Observations: None</p> <p>Other Observations/Comments: A small drilling mud seep was identified in an old asphalt crack at the earlier Dale Avenue frac-out area (9/14/19) at the beginning of the monitoring period. Clean-up and monitoring by the HDD crew was reinitiated; including a look-out stationed under the Carbon Creek bridge to monitor for any additional signs of frac-out. The seep appeared to stop at approximately 1130.</p>				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> CEC and CDFW to be notified of frac-out per BIO-9. Monitoring of work will continue during HDD activities. 				
Wildlife Species Observed:				
<p>Birds: Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), black phoebe (<i>Sayornis nigricans</i>), American crow (<i>Corvus brachyrhynchos</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>), Cassin's kingbird (<i>Tyrannus vociferans</i>), Allen's hummingbird (<i>Selasphorus sasin</i>), Western [California] scrub jay (<i>Aphelocoma californica</i>), barn swallow (<i>Hirundo rustica</i>).</p>				

Photo 1



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View of seep in the earlier Dale Avenue frac-out area.
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Photo 2



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View northwest of seep and clean-up equipment in the earlier Dale Avenue frac-out area.
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Photo 3



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View northeast of reamer clean-up at the entry/north hole in preparation for additional reamer pass-through.
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Photo 4



Location	Dale Avenue Gas Pipeline – Middle Section HDD		View north at drill rig pushing drill pipe to exit/south hole in preparation for additional reamer pass-through.
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Photo 5



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View southwest of crew finalizing reamer connection into drill pipe in preparation for additional reamer pass-through at the exit/south hole.
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Stanton Energy Reliability Center (SERC)
BIOLOGICAL RESOURCES
COMPLIANCE MONITORING LOG

Date		Monitor		Time (Begin-End)
September 15-16, 2019		Ken Levenstein		1200 - 0345
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
65 – 85	2 – 6	0 in	Good	Mostly sunny
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction:</p> <p>Dale Avenue Natural Gas Pipeline, middle section (Between W Crescent Avenue and W Orange Avenue), Horizontal Directional Drilling (HDD) under Carbon Creek – checked for potential bird/wildlife/Project interactions and compliance with COCs.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed: None</p> <p>Nesting Bird Observations: None</p> <p>Other Biological Resources Observations: None</p> <p>Other Observations/Comments: A small drilling mud seep was identified in an old asphalt crack at on Dale Avenue at the beginning of the monitoring period (see monitoring report by Cara Snellen for 9/15/2019).</p>				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> No specific items requiring follow-up. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), black phoebe (<i>Sayornis nigricans</i>), American crow (<i>Corvus brachyrhynchos</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>), Cassin's kingbird (<i>Tyrannus vociferans</i>), and Allen's hummingbird (<i>Selasphorus sasin</i>).</p>				

Photo 1



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View north-northeast from exit hole of reamer ready to be pulled north back to entry pit north of Lincoln Avenue. Reamer is attached to a train of attached rods and, finally, the gas pipeline section.

Photo 2



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View southwest at location of earlier seepage north of Carbon Creek Bridge.

Photo 3



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View southeast at entry pit (foreground), the mud pit, just beyond, and portion of recycler at right in photo. Sound baffle installed the previous night is visible at center of photo.
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Photo 4



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View south from exit pit at long train of rods ready to be pulled north back through the bore hole to the entry pit north of Lincoln Avenue.
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Photo 5



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View south of hydro-vac tanker offloading mud collected from exit pit south of Carbon Creek Bridge, through entry pit and into mud pit for processing by recycler.

Photo 6



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

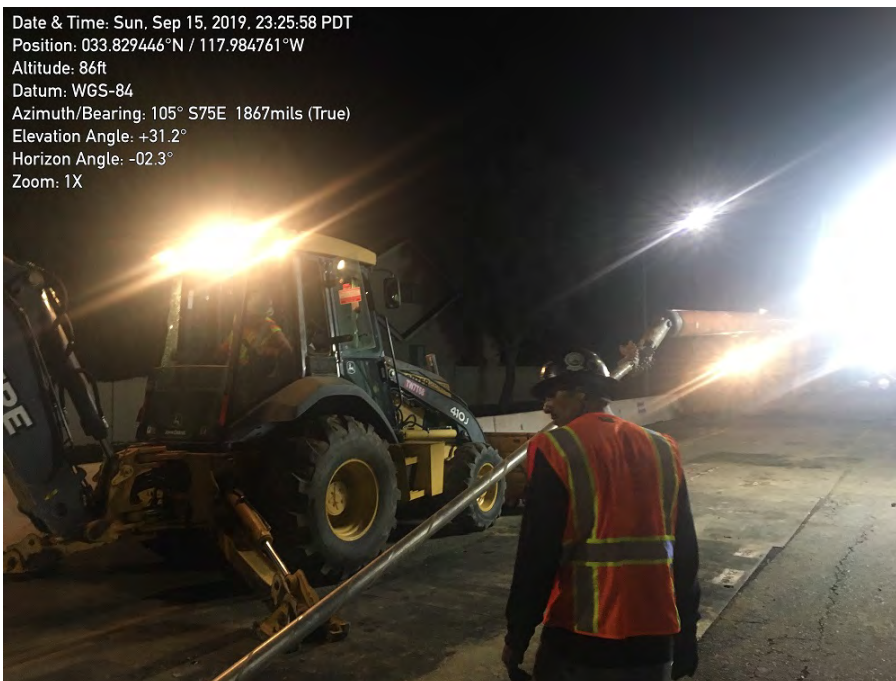
Another view south (see Photo 8) from south of exit pit at long train of rods being pulled north back through the bore hole to the entry pit north of Lincoln Avenue.

Photo 7



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	Another view (north; see Photos 8 and 10) from south of exit pit at long train of rods being pulled north back through the bore hole to the entry pit north of Lincoln Avenue.
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Photo 8



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View southwest from exit pit, of final rod attached to swivel, which is attached to gas pipeline ready to be pulled north through bore hole to entry pit north of Lincoln Avenue.
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Photo 9

Date & Time: Sun, Sep 15, 2019, 23:29:10 PDT
Position: 033.829387°N / 117.984722°W
Altitude: 95ft
Datum: WGS-84
Azimuth/Bearing: 353° N07W 6276mils (True)
Elevation Angle: +24.8°
Horizon Angle: -01.4°
Zoom: 1X



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View north from exit pit, of gas pipeline ready to be pulled north
through bore hole to entry pit north of Lincoln Avenue.

Photo 10

Date & Time: Sun, Sep 15, 2019, 23:42:51 PDT
Position: 033.829502°N / 117.984748°W
Altitude: 84ft
Datum: WGS-84
Azimuth/Bearing: 046° N46E 0818mils (True)
Elevation Angle: +05.7°
Horizon Angle: -03.0°
Zoom: 1X



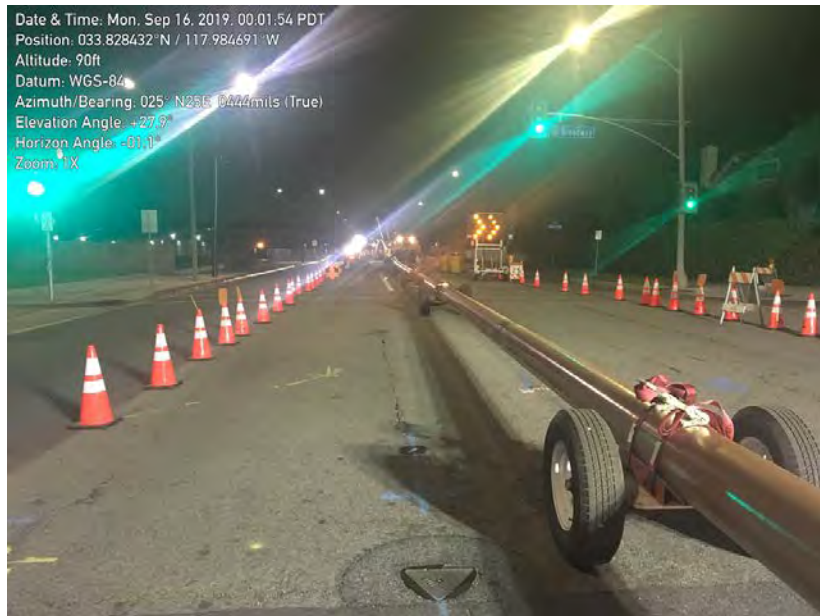
Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

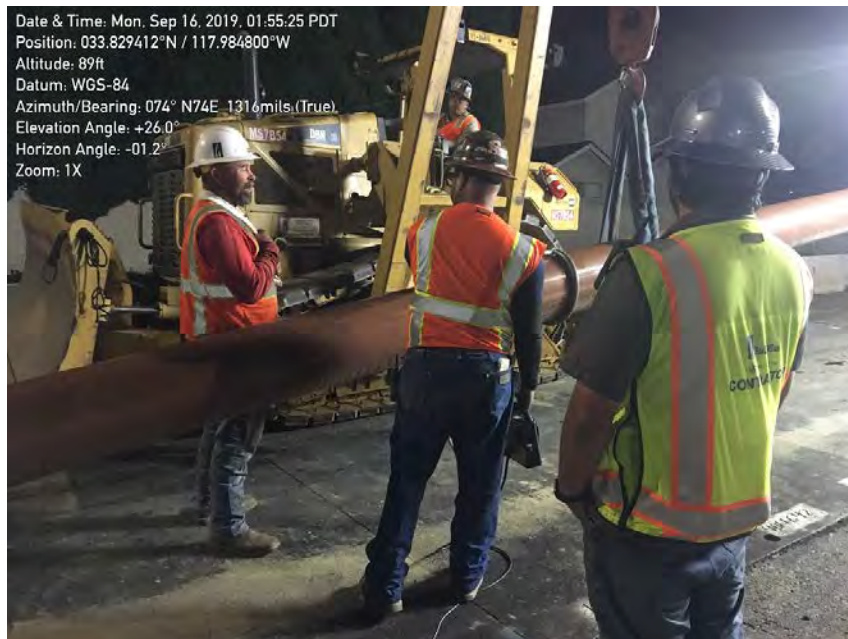
The gas pipeline is checked for defects before entering borehole as
it is slowly and carefully pulled north. If found, defects are sealed
and cured before pipe continues journey north.

Photo 11



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View north from intersection of Broadway and Dale Avenues at long train of gas pipeline as it is being pulled slowly north through borehole under Carbon Creek towards exit pit north of Lincoln Avenue.
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Photo 12



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	Another view of worker checking gas pipeline for defects as it continues to be pulled slowly north through borehole under Carbon Creek.
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Stanton Energy Reliability Center (SERC)				
BIOLOGICAL RESOURCES				
COMPLIANCE MONITORING LOG				
Date		Monitor		Time (Begin-End)
September 20, 2019		Ken Levenstein		06:45 – 15:15
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
66 – 80	0 – 4	0 in	Good	Partly cloudy early, then sunny and warm
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction:</p> <p>Western SERC Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; dust suppression, pipe fabrication, above-ground infrastructure work, receiving and movement of equipment/materials; reporting. (see Photo Log).</p> <p>Eastern SERC Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; ongoing activities related to above-ground infrastructure construction, movement of equipment/materials; reporting. (see Photo Log).</p> <p>Bethel Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p> <p>Western SCE Laydown – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; surveyed Parcel and surrounding area (as accessible) for nesting activity, receiving and movement of equipment/materials, reporting.</p> <p>Eastern SCE Laydown – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; surveyed Parcel and surrounding area (as accessible) for nesting activity, receiving and movement of equipment/materials, reporting.</p> <p>Court Street Storage Yard – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; surveyed surrounding area (as accessible) for nesting activity.</p> <p>Greek Orthodox Church Laydown – Surveyed church parking lot and surrounding area (as accessible) for nesting activity. Checked for potential bird/wildlife/Project interactions and compliance with COCs. Pipe fabrication, receiving and movement of equipment/materials, reporting. (see Photo Log).</p> <p>Dale Avenue Pipeline, Northern and Middle Sections – Surveyed area adjacent to pipeline (as accessible) for nesting activity. Checked for potential bird/wildlife/Project interactions and compliance with COCs. Excavation, pipefitting, reporting. (see Photo Log).</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • None <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • None 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items requiring follow-up Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer (<i>Charadrius vociferous</i>), western gull (<i>Larus occidentalis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), black phoebe (<i>Sayornis nigricans</i>), American crow (<i>Corvus brachyrhynchos</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorrhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1

Date & Time: Fri, Sep 20, 2019, 07:21:14 PDT
 Position: 033.837526°N / 117.985284°W
 Altitude: 174ft
 Datum: WGS-84
 Azimuth/Bearing: 310° N50W 5511mils (True)
 Elevation Angle: +29.4°
 Horizon Angle: -02.2°
 Zoom: 1X



Location	SERC – Greek Orthodox Church Laydown	Description	View west from northern portion of Greek Orthodox Church Laydown at monitors leaving morning tailgate (left) and workers sweeping up around covered and contained spoils pile (center).
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Photo 2

Date & Time: Fri, Sep 20, 2019, 07:21:48 PDT
 Position: 033.837475°N / 117.984785°W
 Altitude: 93ft
 Datum: WGS-84
 Azimuth/Bearing: 036° N36E 0640mils (True)
 Elevation Angle: +27.4°
 Horizon Angle: -04.0°
 Zoom: 1X



Location	SERC – Greek Orthodox Church Laydown	Description	View northwest from outside Greek Orthodox Church Laydown entrance at workers sweeping up track-out.
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Photo 3

Date & Time: Fri, Sep 20, 2019, 08:45:39 PDT
Position: 033.806796°N / 117.987261°W
Altitude: 81ft
Datum: WGS-84
Azimuth/Bearing: 292° N68W 5191mils (True)
Elevation Angle: +31.6°
Horizon Angle: -02.6°
Zoom: 1X



Location

SERC – Eastern Parcel

Description

View south-southwest from eastern portion of Western Parcel at ongoing work on water de-mineralization system.

Photo 4

Date & Time: Fri, Sep 20, 2019, 08:59:03 PDT
Position: 033.806935°N / 117.984901°W
Altitude: 86ft
Datum: WGS-84
Azimuth/Bearing: 301° N59W 5351mils (True)
Elevation Angle: +33.1°
Horizon Angle: -02.0°
Zoom: 1X



Location

SERC – Eastern Parcel

Description

View west from eastern portion of Eastern Parcel at 999 crawler crane in position on pad, after lifting large piece of equipment into place. This crane has a 275-ton (U.S.) lifting capacity.

Photo 5



Location

SERC – Eastern Parcel

Description

View southwest from eastern portion of Eastern Parcel at above-ground power plant infrastructure.

Photo 6



Location

SERC – Eastern Parcel

Description

View southwest from central portion of Eastern Parcel at above-ground power plant infrastructure

Photo 7

Date & Time: Fri, Sep 20, 2019, 09:02:43 PDT
Position: 033.806928°N / 117.986185°W
Altitude: 92ft
Datum: WGS-84
Azimuth/Bearing: 297° N63W 5280mils (True)
Elevation Angle: +32.9°
Horizon Angle: -02.2°
Zoom: 1X



Location	SERC – Eastern Parcel	Description	View west from western portion of Eastern Parcel at above-ground power plant infrastructure. Vehicle bridge to Western Parcel is at right in photo.
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Photo 8

Date & Time: Fri, Sep 20, 2019, 09:59:39 PDT
Position: 033.846631°N / 117.984991°W
Altitude: 94ft
Datum: WGS-84
Azimuth/Bearing: 313° N47W 5564mils (True)
Elevation Angle: +25.6°
Horizon Angle: -00.6°
Zoom: 1X



Location	Dale Avenue Gas Pipeline – Northern Section	Description	View west from intersection of La Palma and Dale Avenues at excavation and shoring work in process.
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Photo 9



Location

Dale Avenue Gas Pipeline –
Northern Section

Description

View north from just south of intersection of La Palma and Dale
Avenues at pipes staged and ready for installation.

Photo 10



Location

Dale Avenue Gas Pipeline –
Northern Section

Description

View south from northern section of Dale Avenue pipeline
excavation and shoring work in process.

Photo 11



Location	Dale Avenue Gas Pipeline – Northern Section	Description	View south from northern section of Dale Avenue pipeline south of photo 9 location at another crew engaged in excavation and shoring work.
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Photo 12



Location	Dale Avenue Gas Pipeline – Northern Section	Description	View north from northern section of Dale Avenue pipeline at excavator loading dump truck with spoils.
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Photo 13

Date & Time: Fri, Sep 20, 2019, 13:18:56 PDT
Position: 033.837056° N / 117.985308° W
Altitude: 86ft
Datum: WGS-84
Azimuth/Bearing: 022° N22E 0391mils (True)
Elevation Angle: +29.1°
Horizon Angle: -02.1°
Zoom: 1X



Location	SERC – Greek Orthodox Church Laydown	Description	View north-northeast from southern portion of Greek Orthodox Church Laydown.
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Photo 14

Date & Time: Fri, Sep 20, 2019, 13:20:26 PDT
Position: 033.837575° N / 117.985186° W
Altitude: 100ft
Datum: WGS-84
Azimuth/Bearing: 140° S40E 2489mils (True)
Elevation Angle: +30.3°
Horizon Angle: -02.5°
Zoom: 1X



Location	SERC – Greek Orthodox Church Laydown	Description	View southeast from northern portion of Greek Orthodox Church laydown. Area at center of photo is where pipe fabricators conduct their work.
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Stanton Energy Reliability Center (SERC)				
BIOLOGICAL RESOURCES				
COMPLIANCE MONITORING LOG				
Date		Monitor		Time (Begin-End)
September 27, 2019		Ken Levenstein		06:45 – 15:15
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
65 – 82	0 – 5	0 in	Good	Mostly cloudy
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction:</p> <p>Western SERC Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; dust suppression, pipe fabrication, above-ground infrastructure work, receiving and movement of equipment/materials; reporting. (see Photo Log).</p> <p>Eastern SERC Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; ongoing activities related to above-ground infrastructure construction, movement of equipment/materials; reporting. (see Photo Log).</p> <p>Bethel Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p> <p>Western SCE Laydown – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; surveyed Parcel and surrounding area (as accessible) for nesting activity, receiving and movement of equipment/materials, reporting.</p> <p>Eastern SCE Laydown – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; surveyed Parcel and surrounding area (as accessible) for nesting activity, receiving and movement of equipment/materials, reporting. (see Photo Log).</p> <p>Court Street Storage Yard – Bio-monitored. Checked for potential bird/wildlife/Project interactions and compliance with COCs and SWPPP; surveyed surrounding area (as accessible) for nesting activity.</p> <p>Greek Orthodox Church Laydown – Surveyed church parking lot and surrounding area (as accessible) for nesting activity. Checked for potential bird/wildlife/Project interactions and compliance with COCs. Pipe fabrication, receiving and movement of equipment/materials, reporting.</p> <p>Dale Avenue Pipeline, Northern and Middle Sections – Surveyed area adjacent to pipeline (as accessible) for nesting activity. Checked for potential bird/wildlife/Project interactions and compliance with COCs. Asphalt cutting, excavation, pipefitting, pipelaying, reporting. (see Photo Log).</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • None <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • None 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items requiring follow-up Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: Red-tailed hawk (<i>Buteo jamaicensis</i>), western gull (<i>Larus occidentalis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), black phoebe (<i>Sayornis nigricans</i>), American crow (<i>Corvus brachyrhynchos</i>), common raven (<i>Corvus corax</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1



Location	Dale Avenue Gas Pipeline – Northern Section	Description	View south along Dale Avenue from adjacent to Buena Park Downtown Mall at ongoing pipelaying activity.
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Photo 2



Location	Dale Avenue Gas Pipeline – Northern Section	Description	View south along Dale Avenue at ongoing natural gas pipeline construction.
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Photo 3



Location	Dale Avenue Gas Pipeline – Northern Section	Description	View northwest from adjacent to Greek Orthodox Church Laydown at workers inserting steel shoring into sandy area of pipeline excavation.
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Photo 4



Location	Dale Avenue Gas Pipeline – Northern Section	Description	View north from adjacent to Greek Orthodox Church Laydown at workers inspecting pipe for defects before lowering into excavation.
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Photo 5

Date & Time: Fri, Sep 27, 2019, 10:51:25 PDT
Position: 033.807044°N / 117.985016°W
Altitude: 74ft
Datum: WGS-84
Azimuth/Bearing: 304° N56W 5404mils (True)
Elevation Angle: +32.9°
Horizon Angle: -02.7°
Zoom: 1X



Location	SERC – Eastern Parcel	Description	View west from eastern portion of Eastern Parcel at above-ground power plant infrastructure.
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Photo 6

Date & Time: Fri, Sep 27, 2019, 10:52:23 PDT
Position: 033.806864°N / 117.985336°W
Altitude: 75ft
Datum: WGS-84
Azimuth/Bearing: 091° N81E 1440mils (True)
Elevation Angle: +31.3°
Horizon Angle: -02.5°
Zoom: 1X



Location	SERC – Eastern Parcel	Description	View southeast from central portion of Eastern Parcel at above-ground power plant infrastructure
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Photo 7

Date & Time: Fri, Sep 27, 2019, 10:54:22 PDT
Position: 633.806904°N / 117.986104°W
Altitude: 49ft
Datum: WGS-84
Azimuth/Bearing: 198° S18W 3820mils (True)
Elevation Angle: +35.0°
Horizon Angle: -03.0°
Zoom: 1X



Location

SERC – Eastern Parcel

Description

View south from central portion of Eastern Parcel at above-ground power plant infrastructure.

Photo 8

Date & Time: Fri, Sep 27, 2019, 10:55:19 PDT
Position: 633.806996°N / 117.986236°W
Altitude: 78ft
Datum: WGS-84
Azimuth/Bearing: 109° S71E 1938mils (True)
Elevation Angle: -33.4°
Horizon Angle: -02.6°
Zoom: 1X



Location

SERC – Eastern Parcel

Description

View southeast from western portion of Eastern Parcel at above-ground power plant infrastructure.

Photo 9



Location	SERC – Western Parcel	Description	View south from eastern portion of Western Parcel water demineralization tank foundation construction.
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Photo 10



Location	SERC – Eastern Laydown	Description	View east from western portion of Eastern Laydown at delivery and movement of construction material.
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Appendix B

Wildlife Species List

Observed Wildlife Species List September 1 – September 30, 2019 Stanton Energy Reliability Center		
Common Name	Scientific Name	Status Federal/State/Other
Birds		
Allen's hummingbird	<i>Selasphorus sasin</i>	--/--/--
American crow	<i>Corvus brachyrhynchos</i>	--/--/--
Barn swallow	<i>Hirundo rustica</i>	--/--/--
Black phoebe	<i>Sayornis nigricans</i>	--/--/--
California scrub jay	<i>Aphelocoma californica</i>	--/--/--
Cassin's kingbird	<i>Tyrannus vociferans</i>	--/--/--
Cooper's hawk	<i>Accipiter cooperii</i>	--/WL/--
Eurasian collared dove	<i>Streptopelia decaocto</i>	--/--/NP
European starling	<i>Sturnus vulgaris</i>	--/--/NP
Great egret	<i>Ardea alba</i>	--/--/--
House finch	<i>Haemorhous mexicanus</i>	--/--/--
House sparrow	<i>Passer domesticus</i>	--/--/NP
Killdeer	<i>Charadrius vociferus</i>	--/--/--
Mourning dove	<i>Zenaida macroura</i>	--/--/--
Northern mockingbird	<i>Mimus polyglottos</i>	--/--/--
Red-tailed hawk	<i>Buteo jamaicensis</i>	--/--/--
Rock pigeon	<i>Columba livia</i>	--/--/NP
Western gull	<i>Larus occidentalis</i>	--/--/--

Status Codes:

If status codes are not provided, the species is not a special-status species.

Federal:

FE = Federally listed Endangered: species in danger of extinction throughout a significant portion of its range

FT = Federally listed Threatened: species likely to become endangered within the foreseeable future

BCC = Birds of Conservation Concern

State:

SE = State listed as Endangered

ST = State listed as Threatened

FP = Fully Protected

SSC = Species of Special Concern - Species of special concern to California Department of Fish and Wildlife (CDFW) due to declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction.

S = Sensitive

WL = Watch List

SP = Special Animals List

Other:

Bureau of Land Management (BLM), United States Department of Interior – Sensitive (S)

California Department of Forestry and Fire Protection (CDF) classifies "sensitive species" as those species that warrant special protection during timber operations.

United States Forest Service (USFS) – Sensitive (S)

NP = Not Protected (Introduced Species)

Appendix C Incident Reports

Edens, Ava/SCO

From: Edens, Ava/SCO
Sent: Friday, September 13, 2019 11:58 AM
To: Heiser, John@Energy; Valand, Andrew@Wildlife
Cc: Matthew.Layton@energy.ca.gov; Eric.Knight@energy.ca.gov; Jonathan.Fong@energy.ca.gov; jon.hilliard@energy.ca.gov; Tim Bofman; Gary Franzen; Davy, Doug/SAC; Parker, Karen/SAC
Subject: Stanton Energy Reliability Center (16-AFC-1): BIO-9 Frac-Out Notification
Attachments: 2019-09-12_SERC_HDD_Bio-MonitoringReport.pdf

Dear John,

This email serves as a notification for the Stanton Energy Reliability Center (SERC), 16-AFC-1, in compliance with California Energy Commission Condition of Certification BIO-9.

Yesterday (9/12/19) during the HDD activity for the natural gas pipeline, frac-out occurred on Dale Ave. and in the Carbon Creek channel below Dale Ave. A biological monitor was onsite and information regarding the frac-out is included in the attached report.

Thanks,
Ava

[Ava Edens](#) | [Jacobs](#) | SERC Designated Biologist | 949.404.2046 desk | 949.466.5178 mobile | Ava.Edens@jacobs.com | www.jacobs.com

Stanton Energy Reliability Center (SERC)				
BIOLOGICAL RESOURCES				
COMPLIANCE MONITORING LOG				
Date		Monitor(s)		Time (Begin-End)
September 12, 2019		Ken Levenstein Ava Edens		07:00 – 17:30 16:20-20:20
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
64 – 88	0 – 4	0 in	Good	Sunny and warm
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction:</p> <p>Dale Avenue Natural Gas Pipeline, middle section (between W Crescent Avenue and W Orange Avenue), Horizontal Directional Drilling (HDD) under Carbon Creek – Checked for potential bird/wildlife/Project interactions and compliance with COCs. Monitored for Frac-out. (see Photo Log).</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> None <p>Nesting Bird Observations:</p> <p>None</p> <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> None <p>Other Observations/Comments:</p> <p>At 0930, a crew member spotted a small amount of drilling mud that had begun seeping from an old fissure in the Dale Avenue asphalt. Drilling was immediately halted and crew was dispatched to initiate clean-up work. The crew had equipment on-site for containment and clean-up. The equipment included fiber-rolls, shovels, disposal containers, a Ditch-Witch vacuum machine mounted on a trailer, steam cleaning equipment, and a large vacuum truck. All traces of a frac-out were removed and drilling resumed. Lookouts were stationed under and on the Dale Avenue Bridge to watch for additional frac-outs. At 1106, drilling mud was detected by the observer under the bridge, oozing from a 3-inch diameter drain pipe that emptied onto the dry sand of Carbon Creek under the bridge. Drilling was immediately halted, and the drilling mud contained and removed (approximately one wheel-barrow load had leaked), first by placing it in a drum, and then initiating use of the Ditch Witch vacuum machine. When the frac-out in Carbon Creek was cleaned and contained, drilling resumed. Drilling mud within the containment area was vacuumed as it appeared by members of California Boring, using a larger vacuum truck that was brought in for the purpose and stationed on the east side of the bridge, its large diameter vacuum tube reaching the dry streambed below. The north end of the HDD exit trench was reached in an hour or so and use of drilling mud ceased. A crew member remained in Carbon Creek with the vacuum at the ready for the remainder of the work day (ending at 2020). All traces of the frac-out had been removed and appeared stable at the end of the work day.</p>				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> CEC and CDFW to be notified of frac-out per BIO-9. 				
Wildlife Species Observed:				
<p>Birds: western gull (<i>Larus occidentalis</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), American crow (<i>Corvus brachyrhynchos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				
Photo 1				



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Drilling mud seeping from an old fissure in the Dale Avenue asphalt north of Carbon Creek. View facing south.
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Photo 2



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Drilling mud seeping from an old fissure in the Dale Avenue asphalt north of Carbon Creek. View facing south.
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Photo 3



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Clean-up of drilling mud seeping from an old fissure in the Dale Avenue asphalt north of Carbon Creek. View facing north.
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Photo 4



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Clean-up of drilling mud seeping from an old fissure in the Dale Avenue asphalt north of Carbon Creek. View facing west.
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Photo 5



Location	Description
Dale Avenue Gas Pipeline – Middle Section – HDD	Clean-up of drilling mud seeping from an old fissure in the Dale Avenue asphalt north of Carbon Creek. View facing south.

Photo 6



Location	Description
Dale Avenue Gas Pipeline – Middle Section – HDD	Containment of drilling mud in Carbon Creek under the Dale Avenue bridge. View facing north.

Photo 7



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Containment and clean-up of drilling mud in Carbon Creek under the Dale Avenue bridge. View facing north.
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Photo 8



Location	Dale Avenue Gas Pipeline – Middle Section – HDD	Description	Containment and clean-up of drilling mud in Carbon Creek under the Dale Avenue bridge. View facing north.
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Photo 9

Date & Time: Thu, Sep 12, 2019, 12:59:00 PDT
Position: 033.830040°N / 117.984569°W
Altitude: 82ft
Datum: WGS-84
Azimuth/Bearing: 351° N09W 6240mils (True)
Elevation Angle: +33.3°
Horizon Angle: -00.6°
Zoom: 1X



Location

Dale Avenue Gas Pipeline –
Middle Section – HDD

Description

Vacuum truck used for clean-up of drilling mud in Carbon Creek
under the Dale Avenue bridge. View facing north.

Photo 10



Location

Dale Avenue Gas Pipeline –
Middle Section – HDD

Description

Crew member in Carbon Creek under the Dale Avenue bridge
watching contained frac-out location as drilling resumes. View
facing northwest.

Edens, Ava/SCO

From: Edens, Ava/SCO
Sent: Monday, September 16, 2019 11:29 AM
To: Heiser, John@Energy; Valand, Andrew@Wildlife
Cc: Matthew.Layton@energy.ca.gov; Eric.Knight@energy.ca.gov; Jonathan.Fong@energy.ca.gov; jon.hilliard@energy.ca.gov; Tim Bofman; Gary Franzen; Davy, Doug/SAC; Parker, Karen/SAC
Subject: Stanton Energy Reliability Center (16-AFC-1): BIO-9 Frac-Out Notification 2
Attachments: 2019-09-14_SERC_HDD_Bio-MonitoringReport.pdf; 2019-09-15_SERC_HDD_Bio-MonitoringReport.pdf

Dear John,

This email serves as a notification for the Stanton Energy Reliability Center (SERC), 16-AFC-1, in compliance with California Energy Commission Condition of Certification BIO-9.

Over the weekend, during the HDD activity for the natural gas pipeline, frac-out occurred on Dale Avenue, just north of the Carbon Creek bridge. The frac-out occurred Saturday (9/14/19) night and seepage was observed again at the same location the following morning. A biological monitor was onsite and information regarding the frac-out is included in the attached reports.

Thanks,
Ava

[Ava Edens](#) | [Jacobs](#) | SERC Designated Biologist | 949.404.2046 desk | 949.466.5178 mobile | Ava.Edens@jacobs.com | www.jacobs.com

Stanton Energy Reliability Center (SERC)				
BIOLOGICAL RESOURCES				
COMPLIANCE MONITORING LOG				
Date		Monitor		Time (Begin-End)
September 14, 2019		Cara Snellen Ken Levenstein		0700 – 1200 1200 - 2330
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
66 – 94	1 – 6	0 in	Good	Morning fog then sunny and hot
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction:</p> <p>Dale Avenue Natural Gas Pipeline, middle section (Between W Crescent Avenue and W Orange Avenue), Horizontal Directional Drilling (HDD) under Carbon Creek – checked for potential bird/wildlife/Project interactions and compliance with COCs. Monitored for frac-out. (see Photos).</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed: A Cooper's hawk (<i>Accipiter cooperii</i>; California Department of Fish and Wildlife Service [CDFW] Watch List [WL]) was observed flying over the site.</p> <p>Nesting Bird Observations: None</p> <p>Other Biological Resources Observations: None</p> <p>Other Observations/Comments:</p> <p>At approximately 1940, the HDD crew observed the return flow of drilling mud had ceased to be observed at the bore hole and no flow was entering the exit hole. There was also no flow observed at the location of two earlier frac-outs, the first, on Dale Avenue just north of the bridge, and the second, under the bridge, level with the Carbon Creek streambed. Drilling was halted and a search ensued for a possible frac-out at a new location. Within several minutes, drilling mud began appearing in fissures along the Dale Avenue roadbed, 1 to 3 meters E-NE of the first frac-out.</p> <p>Members of the crew immediately began cleaning up the mud with shovels, a bucket, a Ditch-Witch and a hydro-vac truck. At its largest point, the mud covered an area approximately 25 to 35 feet by a varying width of 1 to 5 feet and was 0.25 to 0.75 inches deep at the eastern Dale Avenue gutter and above it, in the dirt, adjacent to the curb. The storm drains had been blocked off, so no mud entered the storm drains and no mud reached Carbon Creek. The mud continued to leak slowly through the fissures in the asphalt and, as it did, was vacuumed up by workers on the Ditch-Witch and/or the hydro-vac. In addition, the crew cleaned the asphalt where the frac-out had occurred with a high-pressure water hose (city water). Most of the water turned to mist and evaporated and a wet spot was left on the asphalt. Little to no water run-off was observed. The mud ceased seeping out of the pavement at approximately 2035.</p> <p>A decision was made to continue to push through with the drilling and additional minor seepage of mud was vacuumed up as it appeared. By the end of work, evidence of a frac-out had been largely removed.</p>				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> CEC and CDFW to be notified of frac-out per BIO-9. Monitoring of work will continue during HDD activities. 				
Wildlife Species Observed:				
<p>Birds: Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), black phoebe (<i>Sayornis nigricans</i>), American crow (<i>Corvus brachyrhynchos</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>), Cassin's kingbird (<i>Tyrannus vociferans</i>), red-tailed hawk (<i>Buteo jamaicensis</i>), Allen's hummingbird (<i>Selasphorus sasin</i>), great egret (<i>Ardea alba</i>), Cooper's hawk.</p>				

Photo 1



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View north of drill rig at entry/north hole pushing feeding drill pipe and reamer.
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Photo 2



Location	Dale Avenue Gas Pipeline – Middle Section HDD		View south at drill pipe exiting south hole as part of reaming process.
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Photo 3



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View northwest of crew removing sections of drill pipe (rods) as it exits south hole.
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Photo 4



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View north of transfer of HDD mud into haul truck for removal from site.
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Photo 5



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View northwest from north of bridge over Carbon Creek at worker cleaning up frac-out with hydro-vac.
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Photo 6



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View southwest from north of bridge over Carbon Creek at workers cleaning up frac-out with Ditch-Witch.
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Photo 7

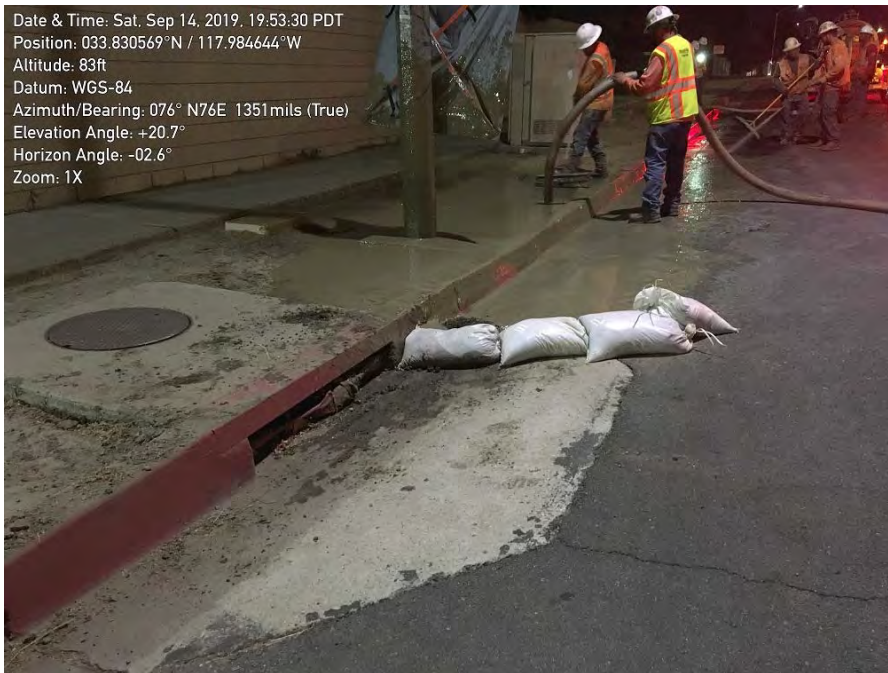
Date & Time: Sat, Sep 14, 2019, 19:49:58 PDT
Position: 033.830346°N / 117.984599°W
Altitude: 84ft
Datum: WGS-84
Azimuth/Bearing: 354° N06W 6293mils (True)
Elevation Angle: +26.1°
Horizon Angle: -02.6°
Zoom: 1X



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View northwest from north of bridge over Carbon Creek at workers cleaning up frac-out with hydro-vac, Ditch-Witch, shovels, and brooms.
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Photo 8

Date & Time: Sat, Sep 14, 2019, 19:53:30 PDT
Position: 033.830569°N / 117.984644°W
Altitude: 83ft
Datum: WGS-84
Azimuth/Bearing: 076° N76E 1351mils (True)
Elevation Angle: +20.7°
Horizon Angle: -02.6°
Zoom: 1X



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View south-southeast from north of bridge over Carbon Creek at workers cleaning up frac-out in gutter and above curb.
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Photo 9

Date & Time: Sat, Sep 14, 2019, 19:57:19 PDT
Position: 033.830239°N / 117.984622°W
Altitude: 84ft
Datum: WGS-84
Azimuth/Bearing: 005° N05E 0089mils (True)
Elevation Angle: +27.1°
Horizon Angle: -03.5°
Zoom: 1X



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View north from north of bridge over Carbon Creek along Dale
Avenue at workers cleaning up frac-out.

Photo 10

Date & Time: Sat, Sep 14, 2019, 19:58:08 PDT
Position: 033.830446°N / 117.984634°W
Altitude: 92ft
Datum: WGS-84
Azimuth/Bearing: 000° N00E 0000mils (True)
Elevation Angle: +27.1°
Horizon Angle: -02.2°
Zoom: 1X



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View north from north of bridge over Carbon Creek along Dale
Avenue at workers cleaning up frac-out. High-pressure wash being
used to remove mud from pavement.

Photo 11

Date & Time: Sat, Sep 14, 2019, 22:54:39 PDT
Position: 033.829494°N / 117.984767°W
Altitude: 87ft
Datum: WGS-84
Azimuth/Bearing: 099° S81E 1760mils (True)
Elevation Angle: +30.7°
Horizon Angle: -01.5°
Zoom: 1X



Location

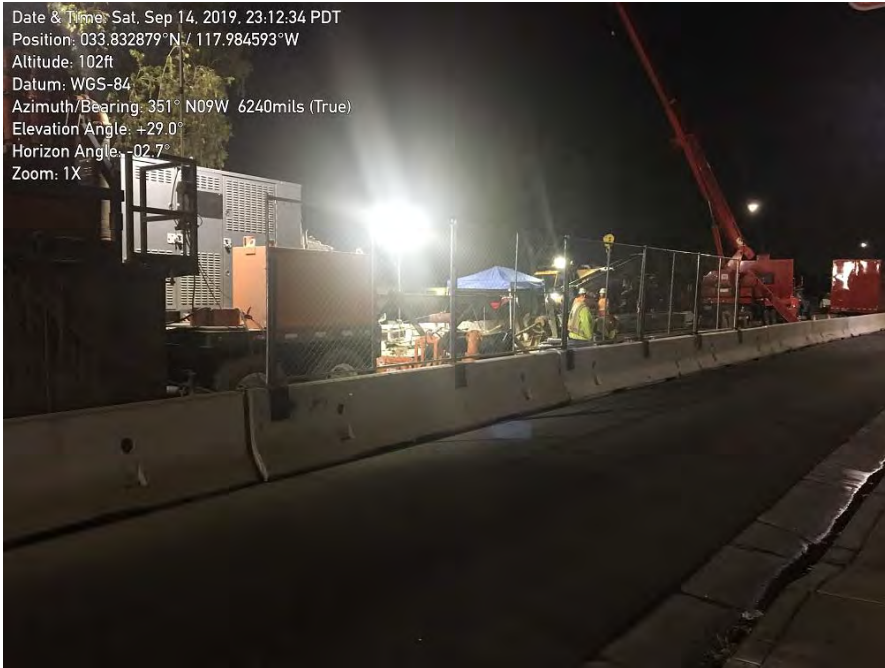
Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View north near HDD exit hole south of bridge over Carbon Creek
along Dale Avenue at workers removing rods from bore hole.

Photo 12

Date & Time: Sat, Sep 14, 2019, 23:12:34 PDT
Position: 033.832879°N / 117.984593°W
Altitude: 102ft
Datum: WGS-84
Azimuth/Bearing: 351° N09W 6240mils (True)
Elevation Angle: +29.0°
Horizon Angle: -02.7°
Zoom: 1X



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View northwest from north of Lincoln Avenue at workers erecting
sound baffle to deaden the noise from the recycler.

Stanton Energy Reliability Center (SERC)				
BIOLOGICAL RESOURCES				
COMPLIANCE MONITORING LOG				
Date		Monitor		Time (Begin-End)
September 15, 2019		Cara Snellen		0700 – 1200
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
65 –92	0-2	0 in	Good	Morning fog then sunny and hot
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction:</p> <p>Dale Avenue Natural Gas Pipeline, middle section (Between W Crescent Avenue and W Orange Avenue), Horizontal Directional Drilling (HDD) under Carbon Creek – checked for potential bird/wildlife/Project interactions and compliance with COCs.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed: None</p> <p>Nesting Bird Observations: None</p> <p>Other Biological Resources Observations: None</p> <p>Other Observations/Comments: A small drilling mud seep was identified in an old asphalt crack at the earlier Dale Avenue frac-out area (9/14/19) at the beginning of the monitoring period. Clean-up and monitoring by the HDD crew was reinitiated; including a look-out stationed under the Carbon Creek bridge to monitor for any additional signs of frac-out. The seep appeared to stop at approximately 1130.</p>				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> CEC and CDFW to be notified of frac-out per BIO-9. Monitoring of work will continue during HDD activities. 				
Wildlife Species Observed:				
<p>Birds: Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), black phoebe (<i>Sayornis nigricans</i>), American crow (<i>Corvus brachyrhynchos</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>), Cassin's kingbird (<i>Tyrannus vociferans</i>), Allen's hummingbird (<i>Selasphorus sasin</i>), Western [California] scrub jay (<i>Aphelocoma californica</i>), barn swallow (<i>Hirundo rustica</i>).</p>				

Photo 1



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View of seep in the earlier Dale Avenue frac-out area.
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Photo 2



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View northwest of seep and clean-up equipment in the earlier Dale Avenue frac-out area.
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Photo 3



Location

Dale Avenue Gas Pipeline –
Middle Section HDD

Description

View northeast of reamer clean-up at the entry/north hole in
preparation for additional reamer pass-through.

Photo 4



Location

Dale Avenue Gas Pipeline –
Middle Section HDDView north at drill rig pushing drill pipe to exit/south hole in
preparation for additional reamer pass-through.

Photo 5



Location	Dale Avenue Gas Pipeline – Middle Section HDD	Description	View southwest of crew finalizing reamer connection into drill pipe in preparation for additional reamer pass-through at the exit/south hole.
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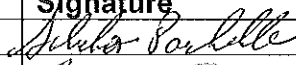
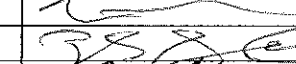
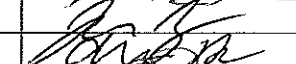

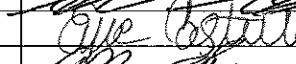

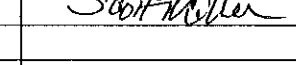
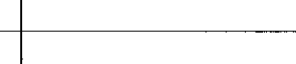
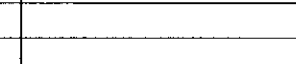
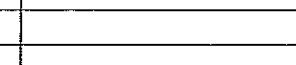
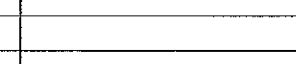
Appendix D

WEAP Training Logs

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

This is to certify the below-mentioned individuals have completed a mandatory California Energy Commission-approved Cultural, Paleontological, and Biological Resources Education (Environmental Awareness) Program for Employees on site at the SERC Project. By signing below, the participants indicate that they understand and shall abide by the guidelines set forth in the Program materials.

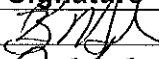
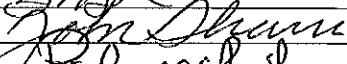
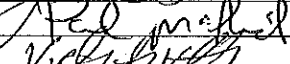
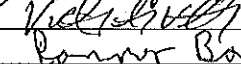
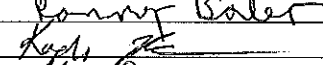
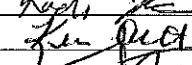
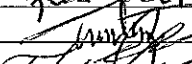


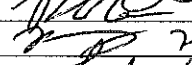
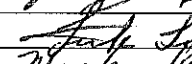
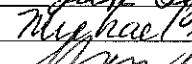
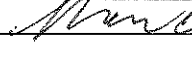
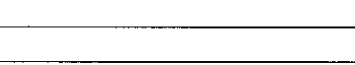
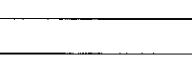
No.	Employee Name	Company	Signature	Date
1.	SALVADOR PADILLA ENRIQUE	ARB		09-03-19
2.	Ken Sanders	Maxim		09-03-19
3.	Zach Egnatovich	Maxim		09-03-19
4.	JASON ZECH	ARB		9-03-19
5.	ALEJANDRO DEL REAL	ARB		9-03-19
6.	BRAND YANA	Brand		9/4/19
7.	STEVE STEWART	BRAND		9/4/19
8.	EVG Castillo	ARB		9/6/19
9.	Allan Brees	Lonestar Maritime		9/6/19
10.	Ronald Stone	NEUTRON		9/6/19
11.	Scott Miller	NEUTRON		9/6/19
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Trainer: T. DRAPER Signature:  Date: 9/3/19

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

This is to certify the below-mentioned individuals have completed a mandatory California Energy Commission-approved Cultural, Paleontological, and Biological Resources Education (Environmental Awareness) Program for Employees on site at the SERC Project. By signing below, the participants indicate that they understand and shall abide by the guidelines set forth in the Program materials.



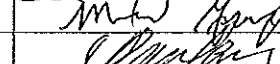
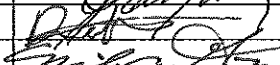
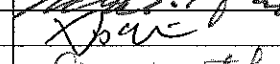
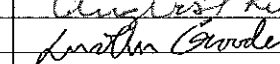
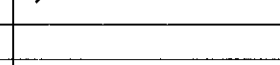
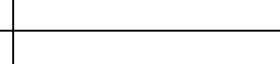

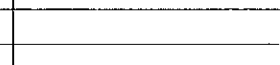
No.	Employee Name	Company	Signature	Date
1.	BRANNON HARNACKE	ARB		2019/9/9
2.	John Stravino	ARB		9/9/19
3.	PAUL McPHAIL	Neutron		9-9-19
4.	Victor A. Villa	Newtron		9-9-19
5.	Bonny Baker	MSTS		9-9-19
6.	Kodi Blarham	MSTS		9-9-19
7.	Kevin Talbot	MSTS		9-9-19
8.	Jim Mann	Wellhead		9-9-19
9.	Tara Young	UTC OVERSEAS		9-9-19
10.	Sahil Ahmed	Wellhead		9-10-19
11.	Dale Layton	Reliable Crane		9-11-19
12.	Raymond Huang	Neutron		9-11-19
13.	FRANK TRUSTILLO	MAXIM CRANE		9-11-19
14.	Michael DeAntonio	Neutron		9/12/19
15.	MARCELO CHAVEZ	Newtron		9/12/2019
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Trainer: T. DRAPER Signature:  Date: 9/9/19

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

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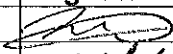
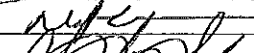

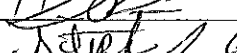
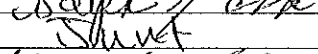
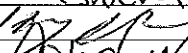



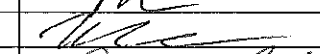

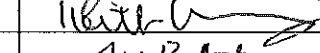
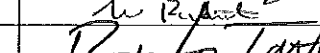
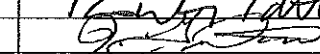
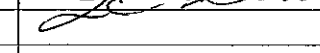
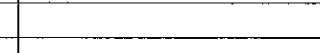
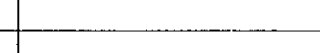
No.	Employee Name	Company	Signature	Date
1.	Juan Lopez Costi	ARB		9-16-19
2.	BRIAN R. BORUNDA	ARB		9-16-19
3.	Don Richardson	Wellhead		9-16-19
4.	MICHAEL GEORGE	ARB		9-17-19
5.	Peter Santoma	ARB		9-17-19
6.	Daniel Wheat	G&W Builders		9-17-19
7.	Mike Green	Gambieris		9-17-19
8.	Gus Fisher	EPC Service		9-17-19
9.	August Lukas	Newtron		9-19-19
10.	Justin Gooden	Newtron		9/19/19
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Trainer: T. DRAPER Signature:  Date: 9/16/19

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

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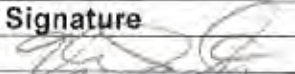


No.	Employee Name	Company	Signature	Date
1.	Mike Whiting	ARB		9-23-19
2.	KARBARAK ASTHUTSOS	ARB		9-23-19
3.	Claudia Sales	ARB		9-23-19
4.	SWAN PRIMER	ARB		9-23-19
5.	STEPHEN COBBE	(WELLHEAD)		9/23/19
6.	JAVIER LEONZO	ARB		9-23-19
7.	Henry Chant SR	ARB		9-23-19
8.	Henry Chant JR	ARB		9-23-19
9.	ARRELL CHURCHWELL	ARB		9-23-19
10.	TONG LOZOGA	NEWTRON		9-23-19
11.	DAN MARZ	NEWTRON		9-23-19
12.	Keith Kiewski	NEWTRON		9-23-19
13.	JEROME BOLAND	NEWTRON		9-26-19
14.	KEITH CHEUNG	ARB		9-26-19
15.	Joe Bautista	ARB		9-26-19
16.	Rick Tatham	Newtron		9-27-19
17.	Jeff Gaudin	Newtron		9-27-19
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Trainer: T. DRAPER Signature:  Date: 9/23/19

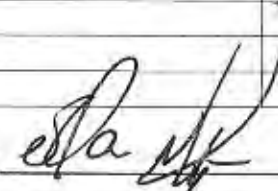
Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
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No.	Employee Name	Company	Signature	Date
1.	Natalie Lawson	PaleoWest		9-3-2019
2.	Ryan Polster	PaleoWest		9/3/19
3.	Tina Campbell	PaleoWest		9/3/19
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Trainer: ALAN MEYER

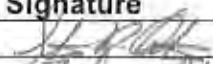


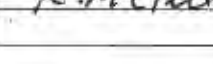

Signature: 

Date: 9 / 3 / 19

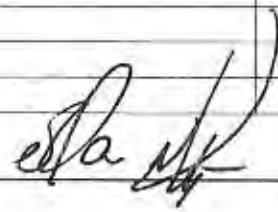
Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

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No.	Employee Name	Company	Signature	Date
1.	STEVEN Quintana	SFE		9-4-19
2.	Fernando Abaza JR	SE		9-4-19
3.	Tedd Aurora	SE		9-4-19
4.	Gilberto Oropeza	SE		9-4-19
5.	Robert McClelland	SE		9/4/19
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Trainer: ALAIN MEYER




Signature: 

Date: 9.4.19

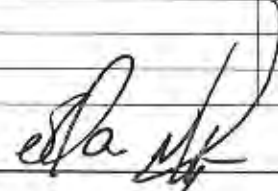
Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

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No.	Employee Name	Company	Signature	Date
1.	Rob Scruggs	SE		9-9-19
2.	Cesar Guevara	SE		9-9-19
3.	Jeremy Vramontes	SE		9/9/19
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Trainer: ALAIN MEYER

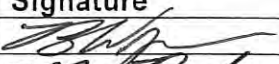
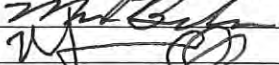

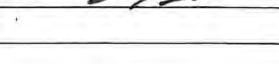
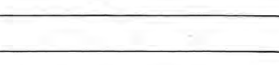
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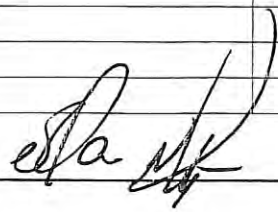
Date: 9/9/19

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
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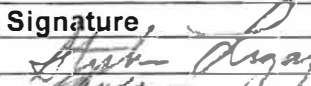
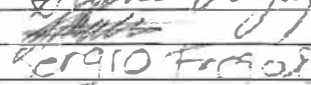
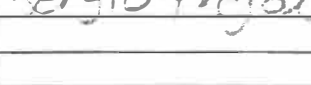
No.	Employee Name	Company	Signature	Date
1.	BRENN LAGNER	SE P/L		9/10/19
2.	Mason Busbee	SE P/L		9/10/19
3.	Niko Svimonoff	TECHCORR		9/10/19
4.	CLAY WILSON	TECHCORR		9/10/19
5.	Luis Hutchins	SCG		9-10-19
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Trainer: ALAIN MEYER Signature:  Date: 9/10/19

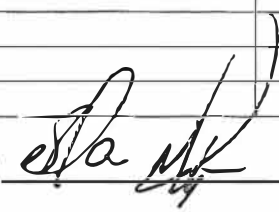
Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
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No.	Employee Name	Company	Signature	Date
1.	Stephen Linzay	Milbar		9/13/19
2.	Theresa Welsh	Milbar		9/13/19
3.	Sergio Fregoso	S.E. Pipeline		9/13/19
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Trainer: ALAN MEYER



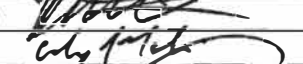
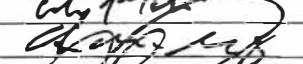




Signature: 

Date: 9/13/19

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

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No.	Employee Name	Company	Signature	Date
1.	DANNY TRUJILLO	SE PIPELINE		9-16-19
2.	Kyle Travis	SE PIPELINE		9-16-19
3.	STEVEN HOUSTON	NATIVE MONITORING		9-16-19
4.	Loty Mhacsi	SE PIPELINE		9-16-19
5.	Adrian Naderisai	SE PIPELINE		9-16-19
6.	Jesus Rodriguez	SE PIPE		9-16-19
7.	Cesar Quintana	SE PIPE		9-16-19
8.	Robert Columbus	SE PIPELINE		9-16-19
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Trainer: ALAN MEYER Signature:  Date: 9/16/19

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
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No.	Employee Name	Company	Signature	Date
1.	Hector Canales	SE Pipeline		9.23.19
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Trainer: ALAN MEYER Signature:  Date: 9.23.19

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

This is to certify the below-mentioned individuals have completed a mandatory California Energy Commission-approved Cultural, Paleontological, and Biological Resources Education (Environmental Awareness) Program for Employees on site at the SERC Project. By signing below, the participants indicate that they understand and shall abide by the guidelines set forth in the Program materials.

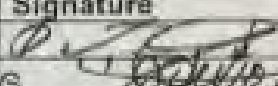
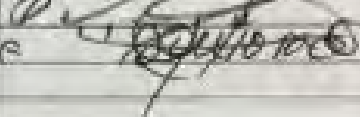
No.	Employee Name	Company	Signature	Date
1.	Jose Gaeta	SE	Jose Gaeta	9-26-19
2.				
3.				
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7.				
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Trainer: ALAN MEYER Signature: [Signature] Date: 9/26/19

Certification of Completion of Worker Environmental Awareness Education Program

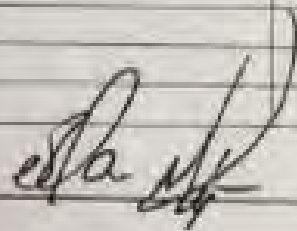
Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

This is to certify the below-mentioned individuals have completed a mandatory California Energy Commission-approved Cultural, Paleontological, and Biological Resources Education (Environmental Awareness) Program for Employees on site at the SERC Project. By signing below, the participants indicate that they understand and shall abide by the guidelines set forth in the Program materials.

No.	Employee Name	Company	Signature	Date
1	Dani Alexander	PCLAS WEST		9-30-19
2	JULIO AURORA	SE PIPELINE		9-30-19
3				
4				
5				
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Trainer ALAN MEYER

Signature



Date 9/30/19

Attachment 5 – CIVIL

Attachment 5 has been deliberately left blank in this reporting period

Attachment 6 – Cultural Resources

Cultural Resources Monitoring Activities Monthly Compliance Report for the Stanton Energy Reliability Center Project (16-AFC-1C)

Prepared For: John Heiser/California Energy Commission
Tim Bofman/WCI

Copies: Sharon Stureman, SERC, LLC
Doug Davy/Jacobs
Karen Parker/Jacobs
Phil Reid, CRS/Jacobs

Prepared By: Gloriella Cardenas, Alternate CRS /PaleoWest
Reporting For Period: September 2019

This September 2019 Monthly Compliance Report (MCR) summarizes cultural resources monitoring activities conducted and documentation prepared from September 1 through September 30, 2019 at the Stanton Energy Reliability Center (SERC) (16-AFC-1C) site located at 10711 Dale Avenue, Stanton, Orange County, California. The MCR is prepared in accordance with the current (November 2018) Cultural Resources Mitigation and Monitoring Plan (CRMMP) and as required by California Energy Commission license Condition of Certification CUL-6.

Personnel Active in Monitoring This Period

PaleoWest Alternate Cultural Resources Specialists (Alt. CRS) Gloriella Cardenas and Natalie Lawson, as well as archaeologists Ryan Rolston, Gena Granger, Jennifer McElhoes, and John McDermott monitored during this reporting period.

Native American Monitoring for this reporting period was conducted by Robert Dorame and Dylan Houston.

Table 1. Number of CRMs and NAMs Present, by Date		
Date	CRMs	NAMs
9/3/19	4	1
9/4/19	4	1
9/5/19	4	1
9/6/19	4	1
9/9/19	3	1
9/10/19	3	1
9/11/19	4	1

Table 1. Number of CRMs and NAMs Present, by Date		
Date	CRMs	NAMs
9/12/19	4	1
9/13/19	4	1
9/16/19	3	1
9/17/19	4	1
9/18/19	4	1
9/19/19	4	1
9/20/19	4	1
9/23/19	3	1
9/24/19	4	1
9/25/19	4	1
9/26/19	4	1
9/27/19	4	1
9/30/19	4	1
Total CRM/NAM-Days	76	20

Monitoring and Associated Activities This Period

Ground disturbing activities subject to monitoring occurred for the SoCalGas natural pipeline construction for SERC. Activities monitored included pipeline trenching and hand excavated pot holing for locating utilities. Work occurred in various locations between stations 0+00 and 37+00 along Dale Avenue.

Cultural Resources Discoveries This Period

None.

Anticipated Changes in the Next Period

Pipeline construction and pot holing for utilities is expected to continue. Cultural monitors will be deployed; monitoring of all ground disturbance with the potential to impact native soils during pipeline installation will be ongoing.

Comments, Issues or Concerns

On Friday, September 20, 2019, a schedule was sent to PaleoWest on behalf of SERC and SoCalGas construction for Monday, September 23, 2019. PaleoWest was instructed to have three cultural monitors on site for the week to monitor trenching. Potholing excavations were also planned, but the contractor stated that potholing would be taking place within a disturbed context to expose utilities and that this activity would not excavate into native sediments; no monitoring would be required. The CRS was not shown plans or given excavation details in order to evaluate whether or not a CRM was required for the potholing. Several potholes were excavated in native soil, with no CRM present. A Non-Compliance Report (NCR) was submitted to the CEC CPM on September 24, 2019.

The following recommendations we made in order to avoid this level of non-compliance for the remainder of the project.

1. The contractor should become familiar with the COC regarding Cultural Resources. The COCs will be reviewed with the contractor management personnel. Review of the COCs, specifically CUL-6, will be completed with the on-the-ground work crew, as well. This review can be completed at a morning safety briefing on site. This training should be completed by one of the CRSs and signatures of all attending the meeting will be obtained.
2. The excavation schedule needs to be provided to the CRS and CPM, per CUL-2 5 days prior.
3. The CRS will have input on the scheduling of the CRMs for any proposed excavations, in support of CUL-6.
4. All potholing should be subject to full time monitoring, unless the CRS confirms that native is not being disturbed. After the non-compliance on September 23, 2019, a CRM was present to monitor all potholing activities on September 24, 2019, and all of those pothole excavations removed between 3 and 5 ft of native sediment below disturbed sediment with existing lines.

On Friday September 27, 2019 the CEC CPM informed SERC via email that CEC Cultural staff reviewed the cultural NCR that was submitted September 24, 2019 and indicated the non-compliance issue is resolved with the proposed resolution that was submitted at that time. The SERC CRS made a site visit on Thursday October 3, 2019 and is satisfied that the NCR is resolved.

A copy of the NCR is attached to this MCR.

Non-Compliance Resolution Report No. 1

X NON-COMPLIANCE REPORT	X RESOLUTION REPORT
Date of Report: 9/24/19	Date of Non-Compliance Violation: 9/23/19
Monitoring Log Attached? Yes	Time of Non-Compliance Violation: 9:30 AM
Environmental Monitor (cultural, biological, paleontological, other): Gena Granger/CRM and Niranjala Kottachichi/PRS	General Location of Non-Compliance: Station 06+19 through 06+17 on Dale Avenue.
Level of Violation:	
<p>X Level 1 Violations that do not result in significant impacts but require corrective action.</p> <p>Level 2 Violations that place environmental resources at an unnecessary risk and require immediate corrective action. Compliance Specification(s):</p> <p>Level 3 Actual or Imminent Danger to Environmental Resources from a Specific Construction Task or Piece of Equipment. Requires immediate corrective action.</p>	

Summary of Violation and Details of Corrective Action Required:
<p>On Friday, September 20, 2019, a schedule was sent to PaleoWest on behalf of SERC and SoCalGas construction, at 10:18 pm. This schedule was for Monday, September 23, 2019. PaleoWest was instructed to have three cultural monitors on site for the week to monitor trenching. Potholing excavations were also planned, but, the contractor stated that potholing would be taking place within a disturbed context to expose utilities and that this activity would not excavate into native sediments; no monitoring would be required. The CRS was not shown plans or given excavation details in order to evaluate whether or not a CRM was required for the potholing.</p> <p>Spot checking of the potholing by the CRM (and PRS) on the morning of Monday September 23, 2019 revealed that all potholes excavated on Monday morning, beginning at Station 06+19 exhibited the following:</p> <ul style="list-style-type: none"> • 0 – 3 feet bgs disturbed/fill • 3 - 4 feet bgs utilities are exposed • 4 – 6 feet (approximately) all in native. As the crew moved south on Dale Avenue, native sediment was noted at shallower depths. Some excavations were deeper than 6 ft bgs. • Horizontal excavations also exceeded the utility excavation footprint. <p>Thus, several potholes were excavated in native soil, with no CRM present.</p> <p>Per CUL-6, a CRM or CRS should be on site for all excavations in native soil. CUL-6 further states, where excavation equipment is actively removing soil concurrently at more than one location at a time, full-time archaeological monitoring shall require at least one monitor per excavation area. The contractor has been advised of this Condition of Certification (COC) previously and numerous time.</p> <p>Per CUL-2, weekly, during ground disturbance, the project construction manager shall provide to the CRS and CPM a schedule of project activities for the following week, including the identification of area(s) where ground disturbance will occur during the week, by letter, email, or fax.</p> <p>The violation of CUL-6 was immediately reported to the CRS. Two issues exist with this non-compliance. First, the schedule for the week of September 23, 2019 was not provided 5 days prior to work. The contractor did not provide correct information regarding the potholing activity to the CRS or provide an opportunity for the CRS to evaluate the proposed potholing excavations. Secondly, the contractor failed to adhere to CUL-6 regarding monitoring requirements.</p>

The following recommendations are intended to avoid this level of non-compliance for the remainder of the project.

1. The contractor should become familiar with the COC regarding Cultural Resources. The COCs will be reviewed with the contractor management personnel. Review of the COCs, specifically CUL-6, will be completed with the on-the-ground work crew, as well. This review can be completed at a morning safety briefing on site. This training should be completed by one of the CRSs and signatures of all attending the meeting will be obtained.
2. The excavation schedule needs to be provided to the CRS and CPM, per CUL-2 5 days prior.
3. The CRS will have input on the scheduling of the CRMs for any proposed excavations, in support of CUL-6.
4. All potholing should be subject to full time monitoring, unless the CRS confirms that native is not being disturbed. After the non-compliance on September 23, 2019, a CRM was present to monitor all potholing activities on September 24, 2019, and all of those pothole excavations removed between 3 and 5 ft of native sediment below disturbed sediment with existing lines.

Notifications:

CPM: John Heizer, CEC

Date: 9/24/2019

Time:

Construction Manager: Tim Bofman, SERC LLC

Date: 9/24/2019

Time:

Project Owner: Kara Miles, W-Power

Date: 9/24/2019

Time:

Compliance Advisor: Gary Frazen, SERC LLC

Date: 9/24/2019

Time:

Daily Monitoring Report - Cultural Resources



Project Name: Stanton Energy

Project Location: Excavation of trench between just

Monitor Name: G. Granger

Work Start Time: 7:00 AM

Construction Company: SE Pipeline Construction

Work Description: Excavation of trench between just before St. 6 and just before St. 7 within intersection of Tamarack and Dale

Date: 9/23/2019

Weather: Sunny, hot, and humid most of day; temps

Native American Monitor: Robert Dorame

Work End Time: 3:30 PM

Hours on Site Not Worked and Reason:

Work Location (Project Component): Excavation of trench between just before St. 6 and just before St. 7

Proximity to Cultural Resources: NA

Work Type (Machine): Backhoe and hand excavation (potholing)

Depth of Excavation: ~8.5-9 ft bgs

Observed Native Soils (Stratigraphy):

Light to tan, medium coarse, undulating sands present at ~3ft bgs to max depth of 8-9 ft bgs

Disturbed/Redeposited Soils:

Dark brown/tan silty fill with road gravel present in first ~3ft bgs

Features:

NA

Artifacts (Isolated? Diagnostic? Greater than 50 years? Exceptional? Include description, provenience, and stratigraphic context.):

NA

Assessment of Significance of Any Finds? (As recommended by the CRS):

NA

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations;

Photography; Collecting; Sampling) and Plan for Next Work Day:

No cultural resources were observed. Crews hand excavated between St. 6+19-6+17 to pot hole for utilities which were found within disturbed context but also native context was exposed during the process as they dug down almost 9 ft bgs. This excavation depth exceeded exposing utilities.

Attachments (Y/N):

☐ Yes ☒ No

Photograph Record:

9/23/2019 3:07:35 PM

9/23/2019 3:13:51 PM

9/23/2019 3:15:52 PM

9/23/2019 3:17:10 PM



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/23/2019 9:37:21 AM

Project Location: Dale Ave

Weather:

Overcast and 73F

Monitor(s): nkottachchi

Work Start Time: 07:00

Work End Time: 11:30

Construction Company: Southeast Pipeline

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Between La Palma Ave and Crescent Ave down Dale Ave

Scope of Construction Work Monitored/Equipment Used:

580 Super N Case mini excavators (4)

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Four mini excavators were operating today; 2 within 500 feet of each other southeast of Crescent Ave and Dale intersection and other 2 within 500 feet of each other at La Palma and Dale Ave. The latter station was at 1+90. The one just southeast of La Palma at Buena Park Downtown was at 06+19-06+17 (for two potholes).

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Based on the soils observed within the trench and potholing, the upper 3 feet was disturbed and below this have Holocene alluvium. No older Quaternary sediments were observed. The sands are unconsolidated and medium-grained.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

I, PRS, went out today to assess the need for monitors and the soils being observed

Plan for tomorrow:

Crews will continue to trench

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/23/2019 9:38:25 AM

9/23/2019 9:53:29 AM

9/23/2019 9:56:36 AM

9/23/2019 10:22:09 AM



Crew laying pipe just NW of Crescent Ave and Dale intersection.



Holocene sands within the trench



Looking down trench



Excavations at La Palma and Dale; very sandy at depths of 7-8ft within Holocene alluvium



Excavations at Buena Park Downtown and Dale Ave, 500 feet from La Palma excavations



Pothole at Buena Park Downtown; existing pipeline is at approximately 4ft down. 3 feet of fill underlaid by clean medium sands of Holocene age.

Attachment 7 - Paleontology

**Monthly Report of Paleontological Resources Monitoring
Activities for the Stanton Energy Reliability Center
Condition of Certification PAL-6
September 2019**

Prepared For: Doug Davy, Jacobs
Karen Parker, Jacobs

Prepared By: Niranjala Kottachchi, Paleontological Resources Specialist

This report covers paleontological resources monitoring activities at the Stanton Energy Reliability Center Project (Project) for the month of September 2019, as required by California Energy Commission license Condition of Certification PAL-6.

Personnel Active in Paleontological Monitoring This Period

Jeanette Maldonado was the primary Paleontological Resources Monitor (PRM) for this month. Additional paleontological monitors on site during this reporting period included Richard Serrano, Jaspal Saini, Tina Campbell, Tara Redinger, and David Alexander.

Pipeline construction by SoCal Gas requiring paleontological monitoring began on August 23, 2019 and has continued through the month of September. Trenching crews worked at different locations along Dale Avenue. These locations or stations are presented in Table 1 below week by week. Entry and exit pits for HDD horizontal drilling were monitored although the drilling itself was not as no visible sediments are produced during this process. Potholing activities were also not monitored. The presence of unconsolidated native sands in the trench required shoring during most of the month, thus impeding excavations.

Paleontological Resources Discoveries This Period

No paleontological resources were discovered during the month of September 2019.

Anticipated Work and/or Changes in the Next Period

Excavations for the pipeline by SoCal Gas will continue in October.

Comments, Issues or Concerns

None to report.

Table 1. Monitoring and Associated Activities This Period

Week	Station #	Activity	Stratigraphy	Paleontological Resources
1	17+00, 18+00, 7+00, 8+00, 19+00, 9+00, 19+50, 8+25, 20+00,	Trenching for gas line 4 feet wide to a maximum depth of 8 ½ feet to 10 feet at all locations	6-10 inches of asphalt underlain by 1-2 feet of disturbed sediments. Below this, fine to medium sands with silt to	No paleontological resources were observed

Week	Station #	Activity	Stratigraphy	Paleontological Resources
	21+00, 6+50, 7+50, 7+65		the base of the trench	
2	7+30 to 6+70,	Trenching for gas line 4 feet wide to a maximum depth of 8 ½ feet to 10 feet at all locations	Below the 6-10 inches of asphalt and 1-2 feet of disturbed sediment, have unconsolidated, native Holocene medium-grained, beige, sugary sands down to the base of the trench	No paleontological resources were observed
	21+50 to 22+00, 7+25, 23+00, 23+50 to 25+50, 24+00, 23+60 to 25+00, 24+75 to 26+10, 25+80- 25+85, 27+50		Below the 6-10 inches of asphalt and 1-2 feet of disturbed sediment, have native, Holocene, fine to medium sand with silt with some cobbles. Near station 24+15 and beyond, there was a change in lithology from the silty sand to the unconsolidated sugary sands observed above	
3	26+75 to 27+30, 28+25 to 28+85, 27+50 to 28+00, 0+60 to 1+40, intersection of Crescent Ave and Dale Ave (27+50 and 29+00), intersection of La Palma Ave and Dale Ave (0+75 to 2+00),	Trenching for gas line 4 feet wide to a maximum depth of 8 ½ feet to 10 feet at all locations	Below the 6-10 inches of asphalt and 1-2 feet of disturbed sediment, have native, Holocene, fine to medium sand with silt with some cobbles to a depth of 5 feet. Below this, unconsolidated sugary sands as observed during week 2	No paleontological resources were observed

Week	Station #	Activity	Stratigraphy	Paleontological Resources
	30+00, 30+65 to 33+75, 33+60 to 34+80, 34+60 to 35+00, 34+80			
4	1+75 to 2+00, 31+50 to 32+50, 2+00 to 2+15, 6+00 to 5+00, 2+00 to 2+40, 2+50 to 2+60, 2+70	Trenching for gas line 4 feet wide to a maximum depth of 8 ½ feet to 10 feet at all locations	Below the 6-10 inches of asphalt and 1-2 feet of disturbed sediment, have native, Holocene, unconsolidated sugary sands down to the base of the trench	No paleontological resources were observed
5	2+75 to 3+70, 35+00 to 35+50, 37+15 to 37+35	Trenching for gas line 4 feet wide to a maximum depth of 8 ½ feet to 10 feet at all locations	Below the 6-10 inches of asphalt and 1-2 feet of disturbed sediment, have native, Holocene, unconsolidated sugary sands down to the base of the trench	No paleontological resources were observed



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy

Date: 9/24/2019 2:05:47 PM

Project Location: Dale Ave. south of Lincoln

Weather:

Clear / warm

Monitor(s): rrolston

Work Start Time: 7 AM

Work End Time: 3:30 PM

Construction Company: SE Pipeline Contractors

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Dale Ave. south of Lincoln in Buena Park, Ca.

Scope of Construction Work Monitored/Equipment Used:

CAT 710 backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching for new gas line. Work starting at STA 32+ 50 and ending at STA 33+ 75. Trench is 2 ft. wide and 8 ft. deep. Trench is approx. 6 ft. wide at bell holes and 9ft. Deep.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Channel deposit ended at STA 33+ 00. At that point a slightly fine sandy silt was present from top of trench to its bottom.

Lithologic Description(s):

Observations of Paleontological Resources:

None noted.

Additional Comments:

Monitoring was conducted by Richard Serrano

Plan for tomorrow:

Continued trenching

Attachments (Y/N):

☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy

Date: 9/25/2019 1:52:13 PM

Project Location: Anaheim, Ca.

Weather:

Partly cloudy, mild temp.

Monitor(s): rolston

Work Start Time: 7 AM

Work End Time: 3:30 PM

Construction Company: SE Pipeline Contractors

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Dale Ave. south of Crescent

Scope of Construction Work Monitored/Equipment Used:

CAT 420 F backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching for new gas line. Trenching starts at STA 33+ 60 and stops at STA 34+ 80. Trench is 2 ft. wide and 8 ft. deep. At bell holes it approx. 6 ft. wide and 9 ft. deep. At 2+65 the excavator was digging approximately 6 ft deep and hit an unmarked sewer pipe (ceramic 12 inch diameter). It did not fully break so they wrapped it and continued digging past it.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Channel deposits show up again at STA 34+ 00 and continue south. They are now more constrained to lower portion of trench.

Lithologic Description(s):

Observations of Paleontological Resources:

No noted paleo resources.

Additional Comments:

Monitoring was done by Richard Serrano

Plan for tomorrow:

Continued trenching.

Attachments (Y/N):

☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy

Date: 9/26/2019 2:03:41 PM

Project Location: Anaheim, Ca.

Weather:
Cloudy

Monitor(s): rolston

Work Start Time: 7 AM

Work End Time: 3:30 PM

Construction Company: SE Pipeline Contractors

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Dale Ave. south of Crescent

Scope of Construction Work Monitored/Equipment Used:

CAT 420 F backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching for new gas line. Work starting today at STA 34+ 60 and ending at STA 35+ 00. Trench is approx. 2 ft. wide and 8 ft. deep. Crew is working to the south.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

N/A

Lithologic Description(s):

Observations of Paleontological Resources:

No paleo resources noted.

Additional Comments:

Channel deposit has reappeared and now extends from just below asphalt to bottom of trench. It most likely is much thicker. Monitoring was done by Richard Serrano

Plan for tomorrow:

Continued trenching, weather permitting. (rain expected)

Attachments (Y/N):

☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy

Date: 9/27/2019 1:38:22 PM

Project Location: Anaheim, Ca.

Weather:

Cloudy / mild temp

Monitor(s): rrolston

Work Start Time: 7 AM

Work End Time: 3:30 PM

Construction Company: SE Pipe Line Contractors

Contact(s):

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Dale Ave. south of Crescent

Scope of Construction Work Monitored/Equipment Used:

CAT 420 F backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching for gas line. Work starting at STA 34+ 80, work headed south.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

None.

Additional Comments:

Monitoring was done by Richard Serrano

Plan for tomorrow:

No work on Sat.

Attachments (Y/N):

☐ Yes ☒ No

Photograph Record:

Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/4/2019 2:27:47 PM

Project Location: Buena Park

Weather:

Hot, clear and sunny. 73-94 F

Monitor(s): jsaini

Work Start Time: 7:00 AM

Work End Time: 3:30 PM

Construction Company: SE Pipeline

Contact(s):

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

South of Buena Park Downtown, north of Station # 900

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

The trenching crew resumed further trenching north of Station # 900. Roughly trenched 70 ft, 26" to 4 ft wide down to maximum depth of 8 1/2 ft. At times carried out pot holing activity down to about 5 ft of depth.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

No change in general lithology of the area. Bottom at maximum depth of 8 1/2ft was located in native light brown

Additional Comments:

Trenching resumed after yesterday's gas pipeline accident.

Plan for tomorrow:

Trenching will continue north of Station # 830.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/4/2019 2:49:06 PM

9/4/2019 2:53:16 PM

Trenching activity north of Station # 900



Trenching of Bell Hole north of Station # 900



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/3/2019 8:18:09 AM

Project Location: Buena Park

Weather:

Clear, mild morning, warming up to a projected high of 92 degrees

Monitor(s): tcampbell

Work End Time: 15:30

Work Start Time: 7:00

Construction Company: SE Pipeline Construction

Contact(s):

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

HS 17 and 18.

Scope of Construction Work Monitored/Equipment Used:

Caterpillar 420F Backhoe Loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching approximately 5 to 8.5 feet in depth by 26 inches to 4 feet wide by approximately 150 feet in length for gas pipeline installation between Stations 17 and 18.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Light brown, fine to medium sand with silt. Composed of quartz, mica, and other lithics. Below an approximate 6 to 10 inch layer of asphalt, an approximate 2 inch layer of road base gravel, and approximately 2 feet of previously disturbed sediments.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed.

Additional Comments:

Plan for tomorrow:

Continue trenching.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/3/2019 9:38:43 AM



Trenching along N Dale Ave for gas pipeline.



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/3/2019 2:22:03 PM

Project Location: Buena Park

Weather:

Nice clear and sunny. 73-94F

Monitor(s): ggranger

Work Start Time: 7:00 AM

Work End Time: 3:00 PM

Construction Company: SE Pipeline

Contact(s): Robert Foreman

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Just north of Station # 900

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

The crews were mainly laying pipes and paving the road. Later one of the crew started trenching north of Station #900. Roughly trenched 26"- 4 ft wide , about 20 ft long section, down to maximum depth of 7-8 ft. During trenching activity the backhoe operator accidentally hit the LIVE 1" gas pipeline. Everybody was safe and monitoring activity was suspended until management made efforts to correct the hazardous conditions on site .

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were found during today's trenching and Pot holing activity north of Station # 900

Additional Comments:

Jaspal Saini is the paleo monitor

Plan for tomorrow:

Trenching activity will resume north of Stanton # 900.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/3/2019 3:44:23 PM

9/3/2019 3:46:29 PM



Trenching activity north of Station # 900



Pot holing for electrical conduit down to max depth of 5 ft north of Station # 900



Daily Monitoring Report - Paleontology

Project Name: SERC

Date: 9/3/2019 7:28:28 PM

Project Location: Buena Park, CA

Weather:

Sunny 91

Monitor(s): jmaldonado

Work Start Time: 07:00

Work End Time: 13:30

Construction Company: SE pipeline

Contact(s): Alain Mevers

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Inbetween HS 7+00 and 8+00 on Dale Ave.

Scope of Construction Work Monitored/Equipment Used:

Backhoe and haul trucks

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

SE pipeline used 2 crews to excavate in 2 different locations. I helped to monitor the crew excavating inbetween HS 7+00 & 8+00 while waiting for a 3rd crew to commence excavation/potholing just north of here. At about 12:45 the crew hit and broke a gas line causing all surrounding work to stop for the day.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Excavations went to a depth of ~5'BGS. Top foot was a silty loam consisting of roots and rootlets. Below was a light brown poorly indurated silty sand.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed today

Additional Comments:

None

Plan for tomorrow:

Excavations are planned to continue tomorrow

Attachments (Y/N): ☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/4/2019 10:01:08 AM

Project Location: Buena Park

Weather:

Clear, mild morning, warming up to a projected high of 96 degrees

Monitor(s): tcampbell

Work End Time: 15:30

Work Start Time: 7:00am

Construction Company: SE Pipeline Construction

Contact(s):

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

HS 18, 19.

Scope of Construction Work Monitored/Equipment Used:

Caterpillar 420F Backhoe Loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching approximately 5 to 8.5 feet in depth by 26 inches to 4 feet wide by approximately 100 feet in length for gas pipeline installation between Stations 18 and 19.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Light brown, fine to medium sand with silt. Composed of quartz, mica, and other lithics. Below an approximate 6 to 10 inch layer of asphalt, an approximate 2 inch layer of road base gravel, and approximately 2 feet of previously disturbed sediments. A large cobble was seen in the disturbed sediments.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed.

Additional Comments:

Plan for tomorrow:

Continue trenching.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/4/2019 10:53:17 AM



Trenching south on Dale Ave between Stations 18 and 19 for gas pipeline installation.



Daily Monitoring Report - Paleontology

Project Name: SERC

Date: 9/4/2019 7:52:37 AM

Project Location: Buena Park, CA

Weather:

Sunny 94

Monitor(s): jmaldonado

Work Start Time: 07:00

Work End Time: 13:00

Construction Company: SE pipeline

Contact(s): Alain Mevers

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Station 9+00

Scope of Construction Work Monitored/Equipment Used:

Backhoe, shovels and haul trucks

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Waiting for a third crew to begin excavation but meanwhile helped to monitor excavation activities at station 9+00. Trench excavation was 26" wide and 8' BGS. The crew would pothole prior to excavation. Confirmed at 12:30 that only 2 crews will be excavating, I left early for the day as a third paleo monitor was not needed.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Excavations went to a depth of ~8' BGS. Top foot was a silty loam consisting of roots and rootlets. Below was a light brown poorly indurated silty sand.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed today

Additional Comments:

None

Plan for tomorrow:

Excavations are planned to continue tomorrow

Attachments (Y/N): ☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: SERC

Date: 9/5/2019 8:00:12 AM

Project Location: Buena Park, CA

Weather:

Sunny 95

Monitor(s): jmaldonado

Work Start Time: 07:00

Work End Time: 15:30

Construction Company: SE pipeline

Contact(s): Alain Mevers

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Inbetween station 19+00 and 19+50 on Dale Ave.

Scope of Construction Work Monitored/Equipment Used:

Backhoe and haul trucks

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Once confirmed only 2 crews will be excavating for today, I covered the area Tina Campbell was monitoring by station 19 while she left for the day. I watched them extend the trench another ~25' in length. Trench width is 26" and max depth is at 8'BGS.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Excavations went to a depth of ~8'BGS. Top foot was a silty loam consisting of roots and pebbles. Below was a light brown poorly indurated silty sand.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed today

Additional Comments:

None

Plan for tomorrow:

Excavations are planned to continue tomorrow

Attachments (Y/N): ☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/5/2019 9:05:46 AM

Project Location: Buena Park

Weather:

Partly cloudy, mild morning, warming
up to a projected high of 93 degrees

Monitor(s): tcampbell

Work End Time: 12:00

Work Start Time: 7:00

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

HS 19

Scope of Construction Work Monitored/Equipment Used:

Caterpillar 420F Backhoe Loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching approximately 5 to 8.5 feet in depth by 26 inches to 4 feet wide by approximately 16 feet in length for gas pipeline installation at Station 19.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Light brown, fine to medium sand with silt. Composed of quartz, mica, and other lithics. Below an approximate 6 to 10 inch layer of asphalt, an approximate 2 inch layer of road base gravel, and approximately 2 feet of previously disturbed sediments.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed.

Additional Comments:

Crews were only digging in two locations and there were 3 teams, so I swapped with paleontological monitor Jeanette Maldonado who continued to monitor this excavation. I left the project site at 12:00pm.

Plan for tomorrow:

Continue trenching.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/5/2019 11:05:32 AM



Trenching for gas pipeline in HS 19 headed towards 20.



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/5/2019 3:47:53 PM

Project Location: Buena Vista

Weather:

Clear, sunny and humid. 71-95F

Monitor(s): jsaini

Work Start Time: 7:00 AM

Work End Time: 3:30 PM

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

North of Station # 825

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

The construction crew started trenching activity at around 9:00 AM going north from Station #825. Roughly trenched 26" to 4 ft wide, about 60-65 ft in length, down to maximum depth of 9-9.5ft. that includes two bell-holes. Pot-holing was in one of the bell-hole to locate electrical conduit.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed during today's trenching activity.

Additional Comments:

Plan for tomorrow:

Trenching will continue northward from Station #760 along Dale Ave.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/5/2019 4:33:28 PM

9/5/2019 4:36:25 PM



Trenching of Bell-hole north of Station # 825



Trenched length for Sept. 05/2019



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/6/2019 7:59:37 AM

Project Location: Buena Park

Weather:

Clear, mild morning warming up to a projected high of 91 degrees

Monitor(s): tcampbell

Work End Time: 15:30

Work Start Time: 7:00

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

HS 20 and 21

Scope of Construction Work Monitored/Equipment Used:

Caterpillar 420F Backhoe Loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching approximately 5 to 8.5 feet in depth by 26 inches to 4 feet wide by approximately 150 feet in length for gas pipeline installation at Stations 20 and 21.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Light brown, fine to medium sand with silt. Composed of quartz, mica, and other lithics. Below an approximate 6 to 10 inch layer of asphalt, an approximate 2 inch layer of road base gravel, and approximately 2 feet of previously disturbed sediments. In HS 20 and 21 a dark gray silty sand contained decaying vegetation possible palm root ball and miscellaneous garbage. In HS 21 large cobbles were seen approximately 2 to 2.5 feet below the ground surface when potholing for gas occurred.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed.

Additional Comments:

Native American Monitor Robert Dorame found clam shell fragments in the planter area of Station 21.

Plan for tomorrow:

Off for the weekend.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/6/2019 1:02:45 PM



Trenching for gas pipeline installation in HS 21.



Daily Monitoring Report - Paleontology

Project Name: SERC

Date: 9/6/2019 9:17:20 AM

Project Location: Buena Park, CA

Weather:

Sunny 90

Monitor(s): jmaldonado

Work Start Time: 07:00

Work End Time: 15:30

Construction Company: SE pipeline

Contact(s): Alain Mevers

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Inbetween station 6+50 and 7+50

Scope of Construction Work Monitored/Equipment Used:

Backhoe and haul truck

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

On standby waiting for a third crew to begin excavations. Took turns to monitor the north excavation at station 7+50. Trench width 26", trench depth ~6-8' BGS, and added length is ~50'.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

Additional Comments:

Plan for tomorrow:

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/6/2019 1:45:24 PM



Trenching at station 7+50



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/6/2019 2:35:41 PM

Project Location: Buena Park

Weather:

Clean, sunny and hot. 71-91F

Monitor(s): jsaini

Work Start Time: 7:00 AM

Work End Time: 3:30 PM

Construction Company:

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

North of Station # 765 along Dale Ave

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

The crew removed trench plates and resumed trenching around 9:30 A.M. Roughly trenched 26" to 4ft wide , about 40 ft long down to maximum depth of 8 ft. Later during the day- the crew hand dug three pot holes to located underground utilities just north of Station # 700.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

No change in general lithology of the area. The bottom at maximum depth was observed in native soils. No

Additional Comments:

Plan for tomorrow:

Trenching will resume - going north from Station # 725.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/6/2019 3:06:10 PM

9/6/2019 3:08:48 PM

9/6/2019 3:11:09 PM

9/6/2019 3:13:42 PM



Trenched section north of Station # 765



Hand digging to locate underground utilities just north of Station #700



Hand dug holes for utilities down to about 2-3 ft.



Hand dug holes to locate underground utilities down to about 2-3 ft just north of Station # 700



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/9/2019 8:17:04 AM

Project Location: In roadway South of the

Weather:

Partly cloudy in morning to sunny in afternoon: 85.

Monitor(s): jmcclhoes

Work Start Time: 7:00 am

Work End Time: 2:30 pm

Construction Company: SE Pipeline

Contact(s): Robert Foreman

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

In roadway South of the intersection of Dale and Tamarack, starting at HS 7+30.

Scope of Construction Work Monitored/Equipment Used:

backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching 8 ft deep, 2ft wide from HS 7+30 to HS 6+70. Trenching activities include digging, shoring, and having the bottom smoothed for instillation.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Fine grained poorly compacted light yellow tan sand with moderately rounded, well sorted texture. 2mm thick stratification lines bounded by silt are seen from approximately 6 ft depth to 8 ft depth. Above 1.5 ft sand the sand is capped by a grey silty modern fill sand and concrete.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological specimens were seen during construction

Additional Comments:

Form filled out by T Redinger since she does not have a login yet.

Plan for tomorrow:

Digging further south along line, there is a possibility they will only be moving plates and other prep.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/9/2019 12:55:59 PM



Crew finalizing the trench at the imtersection of Dale and Tamarack, North.



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/9/2019 9:23:56 AM

Project Location: Buena Park

Weather:

Cloudy, mild, morning, warming up to a projected high of 81 degrees

Monitor(s): tcampbell

Work End Time: 15:30

Work Start Time: 7:00

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

HS 21 and 22

Scope of Construction Work Monitored/Equipment Used:

Caterpillar 420F Backhoe Loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching approximately 5 to 8.5 feet in depth by 26 inches to 4 feet wide by approximately 100 feet in length for gas pipeline installation at Stations 21 + 50 and 22 + 00.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Light brown, fine to medium sand with silt. Composed of quartz, mica, and other lithics. Below an approximate 6 to 10 inch layer of asphalt, an approximate 2 inch layer of road base gravel, and approximately 2 feet of previously disturbed sediments composed of brown sandy clay. In HS 21 + 50 to 22 + 00 large cobbles were seen approximately 2 to 2.5 feet below the ground surface. From 2 to 2.5 feet undisturbed sediments composed of light brown fine to medium grained sand.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed.

Additional Comments:

Plan for tomorrow:

Continue trenching.

Attachments (Y/N):

☒ Yes ☐ No

Photograph Record:

9/9/2019 11:20:22 AM



Trenching for gas pipeline installation in HS 22 + 00.



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/9/2019 1:43:01 PM

Project Location: Buena Park

Weather:

Nice, clear and sunny. 67-82F

Monitor(s): jsaini

Work Start Time: 7:00 AM

Work End Time: 3:30 PM

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Just north of Station # 725

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching resume north of Station #725. Roughly trenched 26" to 4 ft wide, 7-9 ft deep and about 60 ft in length. A few utilities were observed during trenching activity.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

No change in general lithology/stratigraphy of the area. Bottom was located native sediments comprised of

Additional Comments:

Plan for tomorrow:

Uncertain plans for tomorrow. Planning some excavation at the south end. More details at tomorrow's tailgate meeting.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/9/2019 2:09:54 PM

9/9/2019 2:14:11 PM



Trenching for Bell-hole north of Station # 680



Trenching activity for Sept.09, 2019 at the north end close to Buena Park Downtown street sign.



Daily Monitoring Report - Paleontology

Project Name: SERC

Date: 9/9/2019 7:40:25 AM

Project Location: Buena Park, CA

Weather:

Overcast AM

Monitor(s): jmaldonado

Work Start Time: 07:00

Work End Time: 11:00

Construction Company: SE pipeline

Contact(s): Alain Mevers

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

N/A

Scope of Construction Work Monitored/Equipment Used:

N/A

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

No work observed.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

N/A

Lithologic Description(s):

Observations of Paleontological Resources:

N/A

Additional Comments:

None

Plan for tomorrow:

Excavation is planned to continue tomorrow

Attachments (Y/N): ☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/10/2019 8:39:43 AM

Project Location: Buena Park

Weather:

Cloudy, mild morning, warming up to a projected high of 78 degrees

Monitor(s): tcampbell

Work End Time: 15:30

Work Start Time: 7:00

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

HS 22 to 23

Scope of Construction Work Monitored/Equipment Used:

Caterpillar 420F Backhoe Loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching approximately 5 to 8.5 feet in depth by 26 inches to 4 feet wide by approximately 150 feet in length for gas pipeline installation at Stations 22 + 50 and 23 + 50.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Light brown, fine to medium sand with silt. Composed of quartz, mica, and other lithics. Below an approximate 6 to 10 inch layer of asphalt, an approximate 2 inch layer of road base gravel, and approximately 2 feet of previously disturbed sediments composed of brown sandy clay. In HS 22 + 50 large cobbles were seen approximately 2 to 2.5 feet below the ground surface, along with roots. In HS 23 + 00 roots are seen down to approximately 4 feet. A gastropod shell fragment was found by Native American Monitor Robert Dorame in sediment that fell from the

Lithologic Description(s):

Observations of Paleontological Resources:

A gastropod shell fragment was observed.

Additional Comments:

The undisturbed sediments are in Holocene alluvium.

Plan for tomorrow:

Continue trenching.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

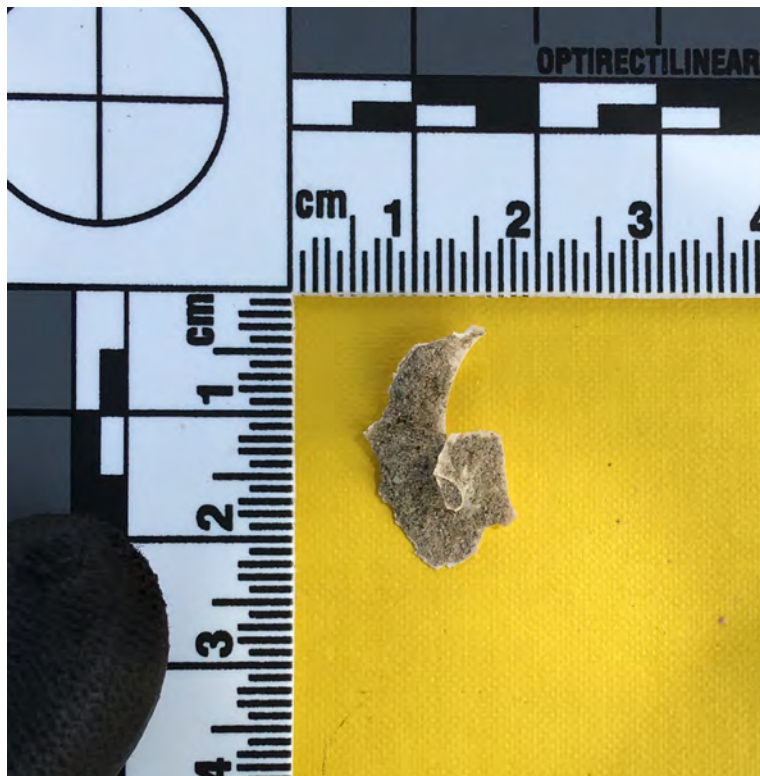
9/10/2019 10:09:59 AM

9/10/2019 3:54:39 PM

9/10/2019 3:56:13 PM



Trenching for gas pipeline installation between HS 22 + 00 and HS 22 + 50.



View of gastropod shell fragment.



Another view of gastropod shell fragment.



Daily Monitoring Report - Paleontology

Project Name: SERC

Date: 9/10/2019 10:38:45 AM

Project Location: Buena Park, CA

Weather:

Partly cloudy 78

Monitor(s): jmaldonado

Work Start Time: 07:00

Work End Time: 15:30

Construction Company: SE pipeline

Contact(s): Alain Mevers

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Between Station 23+50 to 25+50

Scope of Construction Work Monitored/Equipment Used:

2 backhoes, shovel, jackhammers, and haul trucks

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

I monitored potholing activities while the 2 other excavations occurred. The potholing was done with hand dug with jackhammers and shovels to a max depth of 5ft.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

The first ~12" BGS consists of asphalt and road gravel. Below is a beige sand with cobble sized clasts visible in the sediment. Intermittent sections of a grey brown sandy clay was also visible at HS 25+00. Sediment observed are Holocene alluvial deposits.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed today

Additional Comments:

None

Plan for tomorrow:

Excavations are planned to continue tomorrow.

Attachments (Y/N):

☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/10/2019 3:08:23 PM

Project Location: Buena Park

Weather:

Nice clear and sunny with little breeze.
65-80F

Monitor(s): jsaini

Work Start Time: 7:00 AM

Work End Time: 3:30 PM

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

HDD at Stanton # 5125, Trenching at Station # 2400

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

HDD Crew started horizontal drilling for pilot hole with bit diameter of 6" or so going south from Station # 5125. Since it is not feasible to get the specific location of the return sediments - continuous monitoring was not carried out but spot checks will be made to collect anything interesting from the return sediments at the shale shaker. The crew was advised to inform authorities if any fossil was recovered during screening of sediments. One of the trenching crew started trenching 26" to 4ft wide down to maximum depth of 6-9 ft or so, going south from Station #

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

The trenching activity south of Station # 2400 revealed change in lithology. Observed greenish gray friable silty

Additional Comments:

Plan for tomorrow:

Trenching activity will continue south of Station # 2445

Attachments (Y/N):

☒ Yes ☐ No

Photograph Record:

9/10/2019 4:40:28 PM

9/10/2019 4:48:56 PM

9/10/2019 4:53:50 PM



HDD operation in progress with Entry Pit close to Station # 5125



Greenish gray friable silty sands probably of marine origin just south of Station # 2400



Trenched length for the day south of Station # 2400



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability center

Date: 9/10/2019 7:24:35 AM

Project Location: At the intersection of Dale

Weather:

Partly cloudy, 70 degrees F

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 11:00

Construction Company: SE Pipeline

Contact(s): Robert Foreman

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

At the laydown yard located at 431 N. Dale Avenue.

Scope of Construction Work Monitored/Equipment Used:

None

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Today 4 paleo monitors were called out but only three were needed so I was sent home after the daily tailboard completed at 7:30. I will get 4 hour call out time. Two crews trenched in the center of Dale Ave between W Greenleaf Ave. and Tamarack Way and were monitored by other paleontologist.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

N/A

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

I volunteered to be the paleontologist that was sent home for the day and we will trade off if we keep needing people sent home

Plan for tomorrow:

Trenching with at least two crews should continue tomorrow.

Attachments (Y/N): ☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/11/2019 7:36:53 AM

Project Location: At the intersection of Dale

Weather:

Thin blanket of clouds in morning, 69 degrees.

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: SE Pipeline

Contact(s): Robert Foreman

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

At the intersection of Dale and W Greenleaf Way. Started at 23+64, ended at 25+00

Scope of Construction Work Monitored/Equipment Used:

580 Super N CASE backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Today we had the tailboard with all the crews at 7:00 and we were told the SE Pipeline crew would be digging with at least two machines. We waited by the work area until 10:00 at which time one of the trenching crews started digging at 23+64. They continued through 24+00 before lunch. After lunch they continued the 8 ft deep trenches until 3:00 at which time they stopped at 25+00. The other digging crew was using the asphalt remover all morning just south of the other crew between planetary dr. And Crescent Ave. they were telling us they were going to do

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

At 23+64 the sediments consisted of grayish brown silty sand at all depths. The sediments did not show any bedding and were slightly compacted. I believe they are fill material. At 24+00 a lens of cobbles mixed with sand went down to approximately 5 ft depth with the grey sand underneath. At 24+15 the sediments came into contact with the previously observed fine grained well rounded well sorted light white tan sand with massive bedding. Young alluvial fa deposits. At 25+00 the sediments went back to being mostly fill. That was where they ended.

Lithologic Description(s):

Observations of Paleontological Resources:

Additional Comments:

Janette and I switched off looking at the excavation with crew as we were unsure when the 2nd crew would begin excavation activities.

Plan for tomorrow:

Continued trenching south of planetary Ave.

Attachments (Y/N): ☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/11/2019 8:33:40 AM

Project Location: Buena Park

Weather:

Nice clear and sunny .

Monitor(s): jsaini

Work Start Time: 7:00 AM

Work End Time: 11:00 AM

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☐ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Cutting and removal of asphalt was in progress south of Station # 2400.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

Additional Comments:

Only two crews plan to do the excavation activity today. So the extra two paleontological monitors were sent home by the lead monitor for PaleoWest on site.

Plan for tomorrow:

Attachments (Y/N): ☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/11/2019 10:13:51 AM

Project Location: Buena Park

Weather:

Cloudy morning, clearing by mid morning. Mild.

Monitor(s): tcampbell

Work Start Time: 7:00

Work End Time: 11:00

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

N/A

Scope of Construction Work Monitored/Equipment Used:

N/A

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

N/A

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

N/A

Additional Comments:

Four crews not needed, so volunteered to leave the project.

Plan for tomorrow:

N/A

Attachments (Y/N):

☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: SERC

Date: 9/11/2019 1:57:54 PM

Project Location: Buena Park, CA

Weather:

Sunny 80

Monitor(s): jmaldonado

Work Start Time: 07:00

Work End Time: 15:30

Construction Company: SE pipeline

Contact(s): Alain Mevers

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Excavation activities occurred from HS 23+60 and 25+00

Scope of Construction Work Monitored/Equipment Used:

Backhoe, shovels, haul trucks

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

SE pipeline used 1 backhoe to excavate a trench going south on Dale Ave. Trench width is 26" and depth range was 6'-8'. Potholing by hand also occurred along the trench at ~HS 25+25

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

The first ~12" BGS consists of asphalt and road gravel. Below is a beige sand with cobble sized clasts visible in the sediment. Intermittent sections of a grey brown sandy clay was also visible at HS 23+60. The consistent beige sands observed are of Holocene alluvial deposits.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed today.

Additional Comments:

None

Plan for tomorrow:

Excavations are planned to continue tomorrow.

Attachments (Y/N): ☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/12/2019 8:01:16 AM

Project Location: Station 24+75 to 26+10

Weather:

Clear skies, 68 degrees in morning up to 95 degrees by end of day.

Monitor(s): tredinger

Work End Time: 3:30

Work Start Time: 7:00

Construction Company: SE Pipeline

Contact(s): Robert Foreman

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Station 24+75 to 26+10 starting just north of Planetary Dr. and finishing half way between Planetary dr. And Crescent Ave.

Scope of Construction Work Monitored/Equipment Used:

580 Super N CASE backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Today we held the daily tailboard with the crews at 7:00 and we were told that two SE Pipeline crews would continue digging in the street south from 24+75 to 26+10. I monitored as the backhoe trenched down to a maximum 8 ft depth. Excavation was slowed as the crew had to install trench bracers every few feet.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

From the surface to about 2.5 ft the sediment is medium yellow brown. A few segments of grey between 25+45 and 25+60. Sediment is silty loamy sand with patches of angular to sub rounded cobbles 20 to 30 cm wide that drop down to 3 ft depth. Below the silty sandy loam layer the light tan fine sand continues down to the maximum depth (8 ft). The sand is well rounded, moderately sorted and poorly solidified with massive bedding.

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

Worked with Gena while monitoring today.

Plan for tomorrow:

Tomorrow they are expecting to need two crews again. Next week they will be adding a new machine and crew bringing the total to possibly 4 crews needed.

Attachments (Y/N): ☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: SERC

Date: 9/12/2019 8:43:18 AM

Project Location: Buena Park, CA

Weather:

Sunny 70 AM

Monitor(s): jmaldonado

Work Start Time: 07:00

Work End Time: 11:00

Construction Company: SE pipeline

Contact(s): Alain Mevers

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

N/A

Scope of Construction Work Monitored/Equipment Used:

N/A

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Only 2 crews will be excavating. A 3rd paleo was not needed for monitoring. 4hr callout

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

N/A

Lithologic Description(s):

Observations of Paleontological Resources:

N/A

Additional Comments:

N/A

Plan for tomorrow:

N/A

Attachments (Y/N):

☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/12/2019 2:03:27 PM

Project Location: Buena Park

Weather:

Nice clear and sunny. 67-87F

Monitor(s): jsaini

Work Start Time: 7:00 AM

Work End Time: 3:30 PM

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Just south of Station # 2600

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

The crew started trenching 26" to 4 ft wide trench down to maximum depth of about 9 ft. Roughly trenched above 35 ft section after pot holing 2- underground utilities. The crew had cave-in problem which delayed trenching activity.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

Basically trenched through fill and pre-disturbed sediments. But bottom at max depth of 9 ft was in native sediments

Additional Comments:

Plan for tomorrow:

Trenching will resume tomorrow near Station # 2650 with two crews on site.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/12/2019 4:01:04 PM

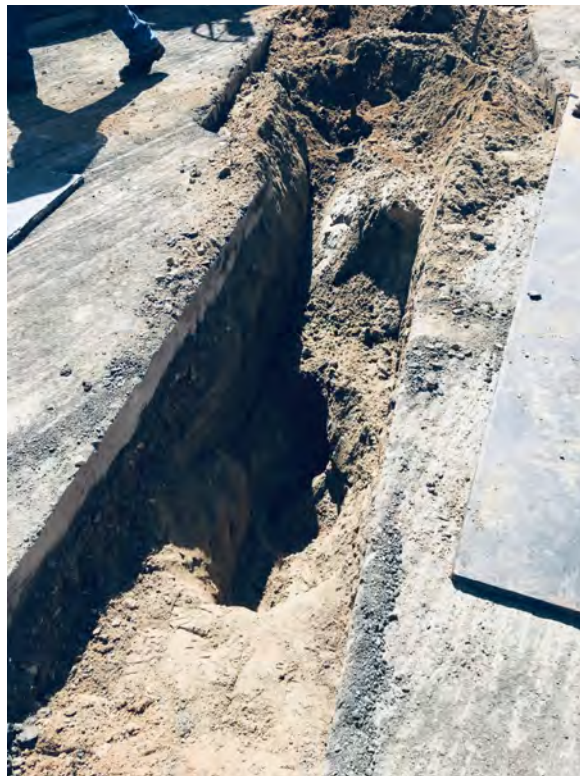
9/12/2019 4:03:31 PM

9/12/2019 4:08:02 PM

9/12/2019 4:11:24 PM



Pot holing for underground utilities near Station # 2640



Pot holing down to about 5 ft or so near Station #2640



Trenched length for the day. Cave-in observed during trenching activity near Station # 2640



Trenched length for the day



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability

Date: 9/13/2019 9:16:32 AM

Project Location: Started with 5 ft segment at

Weather:

Clear skies all day 69 to 95 degrees

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: SE pipeline

Contact(s): Robert foreman

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Started with 5 ft segment at 25+80 to 25+85 between Crescent and planetary. Later the machine moved to 26+20 to start on the Crescent avenue crossing.

Scope of Construction Work Monitored/Equipment Used:

CASE backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Today the crew we were watching started at 9:15 excavating a small segment at 25+ 85 that had not been finished yesterday. They then moved on to 26+25 in order to continue the trench southward towards Crescent Ave. they continued going down to a maximum of 8 ft at the bell-holes and 7 ft in the rest of the trench. They finished at 26 +75.about 25 ft shy of the intersection at Dale and Crescent. Pot holing was conducted to a depth of 3 ft at 27+00

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Sediments down to 5 ft depth are silty sand that is grey yellow in color. A small gas pipe buried in this sediment at 2.5 ft depth site within this layer which makes me believe this layer is all fill material. Below the 5 ft depth the sediment becomes fine to medium grained white tan sand with ,assigned bedding and few inclusions of rocks or roots. This sand is most likely young quaternary alluvium mapped as quaternary alluvial fan material.

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

Jennifer was my cultural partner while watching this crew. Inspector we have been working with is named Steve Jensen

Plan for tomorrow:

Monday they are going to continue with 4 backhoes possibly 3 crews needed.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/13/2019 9:18:35 AM

9/13/2019 9:43:54 AM

9/13/2019 1:16:53 PM

9/13/2019 1:51:01 PM



Excavation starting with 5 ft wide section between 25+80 and 25+85 that they could not finish yesterday. (7 ft depth). East



Potholing at 26+50 for gas utilities. East



East. Backhoe started removing asphalt at 1:10.



South. Finishing up the last segment of trenching for the day at 26+75



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/13/2019 2:48:17 PM

Project Location: Buena Park

Weather:

Clear sunny and hot. 67-95F

Monitor(s): jsaini

Work Start Time: 7:00 AM

Work End Time: 3:30 PM

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Close to Station # 2750 Intersection of Crescent Ave/Dale Ave

Scope of Construction Work Monitored/Equipment Used:

Backhoe, hand digging

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

The backhoe operator removed about 100 ft of Asphalt layer. Then the crew started pot holing for a number of utilities just south of Station #2750. Hand dug a section of about 15-20 ft for utilities down to maximum depth of 9 ft or so for the whole day.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

Hand dug a section of about 15-20 ft down to maximum depth of about 9 ft. Dug all through engineering fill and pre-

Additional Comments:

Plan for tomorrow:

Three crews plan to go for trenching activity. Two at the north end and one at the south end

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/13/2019 3:14:25 PM

9/13/2019 4:46:36 PM



Pot holing for multiple underground utilities at the intersection of Crescent Ave and Dale Ave near Station # 2750



Pot holing for multiple utilities just south of Station # 2750 intersection of Crescent Ave and Dale Ave.



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/16/2019 7:25:14 AM

Project Location: At Dale and Crescent Ave.

Weather:

Overcast, high humidity 70 degrees in morning

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: South East Pipeline

Contact(s): Robert Foreman

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

On Dale Ave. between Planetary and Crescent Ave.

Scope of Construction Work Monitored/Equipment Used:

2 crews with backhoes.

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Today I spot. He led/ monitored all crews excavating. They had 2 backhoe crews working on either side of Crescent Avenue on Dale. The crew on the north side started pot holing and excavating around 10:15 at station 26+75. They are going down a maximum of 8.5 ft. At the end of the day they finished at 27+30. The other crew started excavating with the backhoe at 11:30 at station 28+25. This part of the trench goes 9 ft down. At the end of the day the 2nd crew finished at about 28+85. The 3rd crew with a backhoe was supposed to start digging south of

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

4 to 5 ft f fill silty sand with pebbles. Below fill sediment was light tan to white medium sand that was poorly compacted, moderately hydrated, and well sorted.

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

Monitors today included Ryan, Gena, and new tribal monitor Dylan.

Plan for tomorrow:

4 machines on Dale.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/16/2019 10:36:11 AM

9/16/2019 1:48:19 PM



East. Start of work at 26+75 digging began at 10:00.



South, 2nd crew finishing up at 28+75.



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/17/2019 8:08:28 AM

Project Location: Anaheim, North of Lincoln on

Weather:

Sunny, 70 degrees

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: South east

Contact(s): Robert Foremam

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Anaheim, North of Lincoln on Dale (HDD), at intersection of Dale and La Palma, and Dale and Crescent (27+50 to 28+00)

Scope of Construction Work Monitored/Equipment Used:

Backhoes at 4 locations

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

HDD had to use a backhoe at 8:30 to excavate around the insertion point for the drill so that they could remove it. The two crews at Crescent Avenue were digging by 9:30. One was on the north side (station 27+50 to 28+00) and the other one was continuing south from 29+75. A third crew using a backhoe dug in the center divider of the western side of the intersection of Dale and La Palma. There they went to a maximum of 6 ft.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Sediment at Crescent and Dale has continued to be similar to previously observed sediments, with the fill silty sand going down approximately 5 ft, and the native fluvial medium grained sand below. At La Palma and Dale only a few inches of the fill material is at the surface and the natural sand starts at approximately 6 inch depth. The sand here is similar to the sand seen along the rest of the site, and is light tan to white in color, medium grained, well sorted, and massively bedded. Sediment at the HDD Site is silty mud fill down to the maximum depth of 7ft.

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

I was the only Paleo on site today so I bounced between all work sites (4).

Plan for tomorrow:

Continue excavation with two back hoes around Crescent Ave and Dale, and at La Palma on Dale.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/17/2019 8:41:47 AM

9/17/2019 9:18:59 AM

9/17/2019 12:05:01 PM

9/17/2019 12:48 PM



South, HDD backhoe being used to help excavate around HDD drill shaft. @ Lincoln and Dale Ave.



South, HDD dug down to drill, 6 ft.



East, at Dale and La Palma. 4th crew excavating across median.



South. Southeast Construction Crew south of Crescent continuing to trench after lunch.



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/18/2019 10:22:09 AM

Project Location: 0+60 to 1+40, at the corner

Weather:

Partially cloudy to sunny

Monitor(s): jmcelhoes

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: Southeast

Contact(s): Robert Foreman

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

0+60 to 1+40, at the corner of Dale and La Palma

Scope of Construction Work Monitored/Equipment Used:

Case 580 backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

using a backhoe dug in the center divider of the western side of the intersection of Dale and La Palma. There they went to a maximum of 8 ft. Depth. They took lunch at 12:40 and then continued trenching until 3:00. The section of trenching between 0+75 and 1+00 only was down 6.5 ft.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

only a few inches of the fill material is at the surface and the natural sand starts at approximately 6 inch depth. The sand here is similar to the sand seen along the rest of the site, and is light tan to white in color, medium grained, well sorted, and massively bedded. The top foot of the natural sediment (quaternary alluvium) contained light tilted bedding planes less than 2 inches thick and tilted at a 30 degree angle dipping NNE.

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

This form was written by Tara Redinger.

Plan for tomorrow:

3, possibly 4 crews digging with backhoes along Dale Avenue. This crew will continue at the corner of Dale and La Palma.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/18/2019 10:28:54 AM

9/18/2019 1:31:48 PM



North, backhoe continuing trench from yesterday at 0+60



East, southeast crew continuing at 0+75 digging down to 8 ft depth.



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/18/2019 3:04:28 PM

Project Location: Buena Park

Weather:

Nice and clear. Little cloudy with some breeze in the morning. 64-81F

Monitor(s): jsaini

Work End Time: 3:30 PM

Work Start Time: 7:00 AM

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Intersection of Crescent Ave/Dale Ave .

Scope of Construction Work Monitored/Equipment Used:

Two backhoe.

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Two backhoes continued trenching activity. One started from near Station # 2750 and the other started from near Station # 2900. Total of about 130 ft was trenched by the two operators down to maximum depth 10-13 ft. Bottom at maximum depth was observed in native light brown to light gray friable silty sands.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed during today's trenching activity.

Additional Comments:

Plan for tomorrow:

Will continue trenching south of Crescent Ave. Might have another crew for trenching activity.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/18/2019 3:26:35 PM

9/18/2019 3:29:11 PM

9/18/2019 3:31:02 PM



Trenched section south of Station # 2900 down to max depth of about 10 ft.



Trenching activity at the intersection of Crescent Ave and Dale Ave



Trenched section from near Station # 2750 with maximum depth of about 13 ft.



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability

Date: 9/19/2019 9:09:33 AM

Project Location: At the intersection of Dale

Weather:

Sunny, 78 degrees by 9:00.

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: Southeast

Contact(s): Robert Foreman

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

At the intersection of Dale and La Palma 0+75 to 2+00

Scope of Construction Work Monitored/Equipment Used:

Case backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Continuing trenching eastward from 1+00 the southeast crew started digging at 9:00. They dug until 11:25 and told us we could take lunch but we had to go back 5 minutes later because they thought that as long as they weren't putting the dirt in the trucks they could excavate without us. We explained to them that they were not allowed to disturb the sediments underneath the cement without us present so they stopped and we finished our 30 minute lunch before starting digging again at noon with us.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

The crew meant at the intersection of La Palma and Dale is generally shallow sand with only a few inches of the fill material at the surface. The natural sand starts at approximately 6 inch depth. The sand here is similar to the sand seen along the rest of the site, and is light tan to white in color, medium grained, well sorted, and massively bedded. The top foot of the natural sediment (quaternary alluvium) contained light tilted bedding planes less than 2 inches thick and tilted at a 30 degree angle dipping NNE. AT 1+00 the fill material dips down to a maximum of 4 ft where

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

Worked with Jennifer as my partner for the day.

Plan for tomorrow:

Continued trenching in the intersection of Dale and La Palma

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/19/2019 9:49:10 AM

9/19/2019 1:24:03 PM



Southeast, start of digging at dale and LaPalma at 0+80



North, crew excavating around water main at intersection. (1+45)



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/19/2019 3:02:11 PM

Project Location: Buena Park

Weather:

Nice clear and sunny with occasional breeze.

Monitor(s): jsaini

Work Start Time: 7:00 AM

Work End Time: 3:30 PM

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

One backhoe just south of Station # 3000 and the second backhoe just south of Station # 2750 Crescent Ave/Dale Ave intersection.

Scope of Construction Work Monitored/Equipment Used:

Two Backhoes

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

One backhoe continued trenching 26 inches to 4ft wide trench going south from Station # 3000. Roughly dug about 65 ft of section down to maximum depth of 10 ft or so. Encounter 2-3 underground utilities during trenching activity. Another crew continued trenching south of Crescent Ave/Dale Ave intersection near Station # 2800. Roughly dug a section of about 15-20 ft down to maximum depth of 9-10:ft

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

Roughly dug about 45% through pre- disturbed sediments and 55% through native friable silty sands. No

Additional Comments:

Plan for tomorrow:

Trenching will continue south of Station # 3050

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/19/2019 4:57:21 PM

9/19/2019 4:59:02 PM

9/19/2019 5:01:22 PM

9/19/2019 5:03:23 PM



Pot holing for utilities near Station # 3050



Trenching activity south of Station # 3000



Trenched length south of Station # 3000



Trenching activity south of Crescent Ave/Dale Ave intersection. Crew worked under tight street safety conditions.



Daily Monitoring Report - Paleontology

Project Name: Stanton energy reliability center

Date: 9/20/2019 7:47:18 AM

Project Location: La Palma and Dale at 1+35.

Weather:

Crisp 65 and partially cloudy in morning

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: Southeast

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

La Palma and Dale at 1+35. To 1+75

Scope of Construction Work Monitored/Equipment Used:

Case 580 backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

At the beginning of the day the crew excavated about 10 ft of incomplete trench where they took a right angle at 1+35. Once they finished that they helped the instigation crew get the pipe into the trench finished yesterday, then continued from 1+45 until 1+90. The trench went a maximum of 7.5 ft and there were 3 spots where they had to slow work to deal with sidewall collapse and old utility crossings.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Fill layer varied in height between 0.5 ft and 3 ft depth and was medium grey brown and contained some old concrete in places. The natural sediment underneath consisted of well sorted massive sand that was light tan in color and very dry and collapseable. At lower depths below 6 ft the sand contained slight stratification lines with micro layers of mocha minerals, but otherwise did not change. Quaternary alluvium.

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

Worked with Jennifer Mcelhoes

Plan for tomorrow:

Monday trenching should continue from about 1+90 southward down the center driver of Dale.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/20/2019 9:28:06 AM

9/20/2019 2:20:13 PM



Southwest, finishing up intersection trench segment between 1+30 and 1+80



Southwest. Crew finishing digging segment of trench at 1+90



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/20/2019 8:22:57 AM

Project Location: Buena Park

Weather:

Nice clear and sunny. 63-81F

Monitor(s): jsaini

Work Start Time: 7:00 AM

Work End Time: 3:30 PM

Construction Company: SE Pipeline Construction

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Between Station # 3065 and 3375

Scope of Construction Work Monitored/Equipment Used:

Two backhoes

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

The two backhoes removed the trench plates and started trenching activity around 9:15 AM going south from Station #3065 in two sections. Roughly trenched 26 inches to 4 ft wide trench down to maximum depth of about 7 -10 ft and total length of about 250 ft. It about 40% through pre-disturbed sediments and 60 % through native sediments

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were observed during today's trenching activity.

Additional Comments:

Plan for tomorrow:

Trenching activity will continue going south from Station #3375

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/20/2019 3:10:24 PM

9/20/2019 3:13:27 PM



Trenching activity near Station #3300



Trenching activity going south from Station #3065

Daily Monitoring Report - Paleontology

Project Name: Stanton energy reliability center

Date: 9/23/2019 7:53:59 AM

Project Location: At the corner of Dale and La

Weather:

Mostly cloudy, 69 degrees at start of day.

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: Southeast grading

Contact(s): Robert (foreman)

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

At the corner of Dale and La Palma, continuing south from 1+70.

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

The southeast crew at La Palma and Dale continued trenching down to 8 ft depth from about 1+75 southward on Dale. They finish at 2+00. The 2nd southeast crew working on Dale at the Buena Park Downtown intersection used a backhoe to trench and also conducted potholing down to 9 ft deep in the intersection. They started at 6+70 and ended at 5+90.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Quaternary alluvium. Fill layer varied in height between 0.5 ft and 3 ft depth and was medium grey brown and contained some old concrete from modern sewage pipe in places. The natural sediment underneath consisted of well sorted massive sand that was light tan in color and very dry and collapseable. At lower depths below 6 ft the sand layer was extremely soft and dry and so it easily collapses from the walls. This texture continues all the way to Tamarak blvd. south of Tamarak the sand contains slightly more moisture so it holds together a little better. At 6+50

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

I worked alongside the Paleowest archeologist Jennifer McElhoes while monitoring this crew.

Plan for tomorrow:

Continued trenching by both crews between La Palma and Tamarak

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/23/2019 9:46:27 AM

9/23/2019 11:05:53 AM

9/23/2019 12:50:25 PM



South, start of excavation at 1+85 at beginning of day.



North. 2nd crew at Buena Park downtown and Dale ave. Trenching down to 7.5 ft (6 +75)



North, inside of trench at tamarack and Dale. Sand is starting to become soft



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/23/2019 9:37:21 AM

Project Location: Dale Ave

Weather:

Overcast and 73F

Monitor(s): nkottachchi

Work Start Time: 07:00

Work End Time: 11:30

Construction Company: Southeast Pipeline

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Between La Palma Ave and Crescent Ave down Dale Ave

Scope of Construction Work Monitored/Equipment Used:

580 Super N Case mini excavators (4)

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Four mini excavators were operating today; 2 within 500 feet of each other southeast of Crescent Ave and Dale intersection and other 2 within 500 feet of each other at La Palma and Dale Ave. The latter station was at 1+90. The one just southeast of La Palma at Buena Park Downtown was at 06+19-06+17 (for two potholes).

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Based on the soils observed within the trench and potholing, the upper 3 feet was disturbed and below this have Holocene alluvium. No older Quaternary sediments were observed. The sands are unconsolidated and medium-grained.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

I, PRS, went out today to assess the need for monitors and the soils being observed

Plan for tomorrow:

Crews will continue to trench

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/23/2019 9:38:25 AM

9/23/2019 9:53:29 AM

9/23/2019 9:56:36 AM

9/23/2019 10:22:09 AM



Crew laying pipe just NW of Crescent Ave and Dale intersection.



Holocene sands within the trench



Looking down trench



Excavations at La Palma and Dale; very sandy at depths of 7-8ft within Holocene alluvium



Excavations at Buena Park Downtown and Dale Ave, 500 feet from La Palma excavations



Pothole at Buena Park Downtown; existing pipeline is at approximately 4ft down. 3 feet of fill underlaid by clean medium sands of Holocene age.



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy

Date: 9/23/2019 2:21:39 PM

Project Location: Dale Ave & Lincoln

Weather:
Clear

Monitor(s): rolston

Work Start Time: 7 AM

Work End Time: 3 PM

Construction Company: SE Pipeline Contractors

Contact(s): Robert

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

Dale Ave. just south of Lincoln

Scope of Construction Work Monitored/Equipment Used:

CAT 710 backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Trenching for new gas line. Trench is 2 ft. wide and 8 ft. deep, 9 ft. bell holes. Work starts at STA 31+ 50 and stopping at STA 32+ 50.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Starting at approx. STA 31+ 70 a stream deposit begins to appear. It is approx. 5 ft. below road surface and extends to the bottom of the trench. The deposit extends south to the end of today's work. At its thickest point thus far it is at least 3 ft. thick and possibly thicker. As deposit may extend beyond bottom of trench which is not exposed. Deposit is white loose medium to coarse sands with pebble and visible mica content.

Lithologic Description(s):

Observations of Paleontological Resources:

None noted.

Additional Comments:

Monitoring was conducted by Richard Serrano

Plan for tomorrow:

Continue trenching

Attachments (Y/N):

☐ Yes ☒ No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton energy reliability center

Date: 9/24/2019 8:38:46 AM

Project Location: On Dale between La Palma

Weather:

Clear skies, 70 degrees

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: Southeast

Contact(s): Ronnv (foreman)

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

On Dale between La Palma and Tamarak (2+00 to 2+15)

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

The excavation crew use the backhoe starting at 2+00 and started trenching southward at 8:45. They had to stop for a while at 10:00 to help with the instillation crew. While they did that, I spot checked the 2nd machine that was continuing to move north from Tamarak. They were digging 7.5 ft deep trenches and worked between 6+00 and 5+00 by the end of the day.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Fill sediment is reused native sediment. This fill goes down between 2 and 5 ft from the surface (undulating depths dependent on preexisting utilities). The closer to la Palma the native sand seemed to be closer to the surface. He fill is medium tan and contains some broken asphalt or modern pipe in places. Below fill and disturbed areas the native sediments consist of medium to fine white tan sand that is generally massive in texture but does contain some stratification at depths around 6 ft.

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

Worked along side Gena, and Jennifer

Plan for tomorrow:

Both machines are moving towards each other on Dale between la Palma and Tamarak and will continue to do so tomorrow.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/24/2019 8:46:45 AM

9/24/2019 11:01:05 AM

9/25/2019 6:52:50 AM



South, start of trenching at 8:45 2+00



East. Pothole to 57 inches with pipes 12 inches above bottom. All fill.

East, view of sidewall at 5+30. Bottom of trench at 7 ft. Stratified quaternary alluvium seen in bottom half.



Daily Monitoring Report - Paleontology

Project Name: Stanton energy reliability center

Date: 9/25/2019 8:03:22 AM

Project Location: La Palma and Dale, and

Weather:

Overcast, 68 degrees.

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: Southeast

Contact(s): Ronnv (foreman)

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

La Palma and Dale, and Tamarak and Dale (2 machines)

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Arrived at the site for tailboard meeting at 7:00. At meeting we had a special review with Alain Mayer to discuss cultural and paleo sensitivity requirements and issues from the past week with the operators. I then went with Jennifer to wait for excavation activities to begin at the intersection of La Palma and dale. The crew at the intersection of la Palma and Dale started digging at 9:30 at 2+00 heading south. At the end of the work day they finished at 2+40 They dug a maximum of 7.5 ft. Native sediments were seen below 2 ft. The 2nd crew started about

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Sediment at la Palma consisted of 2 ft of disturbed or fill material and native quaternary sand below that. The fill material looks similar to the native quaternary sand but is medium grey tan in color and can contain small chunks of asphalt or other mixed sediments or gravel. The must've quaternary sand is light tan to white In color, medium to fine grained and well sorted. The top 3 ft of the sand tends to be massively textured and at depths below that some stratified layering marked by concentration of Mica minerals are seen. This stratigraphic column is pretty consistent

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

Worked with Natalie, gena, and Jennifer.

Plan for tomorrow:

Continued trenching between 2+40 and 4+30

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/25/2019 7:31:31 PM

West, sidewall view at 5+45



Daily Monitoring Report - Paleontology

Project Name: Stanton energy reliability center

Date: 9/26/2019 8:50:10 AM

Project Location: On Dale ave, just south of La

Weather:

Overcast and cool, light sprinkles at lunchtime.

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: Southeast

Contact(s): Richard (foreman)

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

On Dale ave, just south of La Palma starting at 2+45 and ending at 2+60

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Only one day excavation crew was working between Tamarak and La Palma. They started trenching slightly after 9:00 from 2+50. They continued to trench between 6 and 8 ft depth southward. They finished the day at 2+60 after scraping against an unknown sewage line 6 ft deep and needed to spend an hour at the end of the day cleaning up around the pipe.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Fill sediment is reused native sediment. This fill goes down between 2 and 5 ft from the surface (undulating depths dependent on preexisting utilities). The closer to La Palma the native sand seemed to terminate closer to the surface (less than 2 ft). The fill is medium tan and contains some broken asphalt or modern pipe in places. Below fill and disturbed areas the native sediments consist of medium to fine white tan sand that is generally massive in texture but does contain some stratification at depths around 6 ft.

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

Monitored one machine only today with Jennifer

Plan for tomorrow:

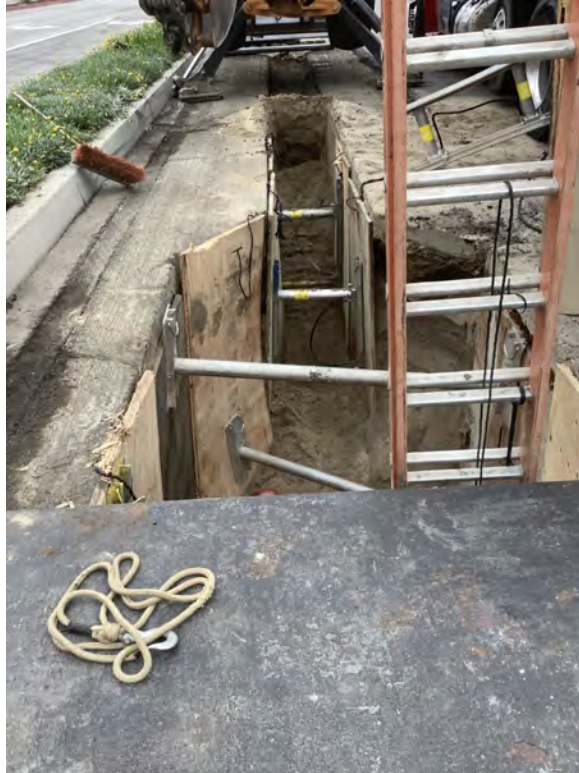
Continued trenching southward from where they left off today.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/26/2019 9:38:41 AM

9/26/2019 2:08:19 PM



South, start of work at beginning off day with Ronny's crew. Trench sand super soft and problematic so work is sow. (2+50)



South, crew hit an unmarked sewer pipe and are in the process of excavating around it to determine next step.



Daily Monitoring Report - Paleontology

Project Name: Stanton energy reliability center

Date: 9/27/2019 7:22:55 AM

Project Location: South of the intersection of

Weather:

Overcast and cool

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: South east

Contact(s): Robert (foreman)

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

South of the intersection of Dale and La Palma starting at (2+70)

Scope of Construction Work Monitored/Equipment Used:

Back hoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Work started by the crew hand digging around the sewer pipe. They will be dropping the trench below the pipe so the section of trench south of 2+70 will be 9 ft deep. They started excavating with the backhoe after an hour. Work was slow due to caving in sidewalls. We took lunch at 12:45.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Fill sediment is reused native sediment. This fill goes down between 2 and 5 ft from the surface (undulating depths dependent on preexisting utilities). The closer to la Palma the native sand seemed to terminate closer to the surface (less than 2 ft). The fill is medium tan and contains some broken asphalt or modern pipe in places. Below fill and disturbed areas the native sediments consist of medium to fine white tan sand that is generally massive in texture but does contain some stratification at depths around 6 ft.

Lithologic Description(s):

Observations of Paleontological Resources:

None seen at this location of the site.

Additional Comments:

Monitored 1 backhoe with Jennifer today.

Plan for tomorrow:

Continue southward from where they stopped trenching today.

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/27/2019 10:17:16 AM

9/27/2019 1:43:25 PM



South, start of machine excavation at 2+75. Depth going to max 9 ft. Soft sand starts at 2 ft and continues all the way down.

South, extent of digging by 5e end of the work day. Excavation only occurred between 2+75 and 2+80)



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 9/30/2019 9:00:09 AM

Project Location: On Dale 200 ft south of la

Weather:

Clear and cool, 65 degrees

Monitor(s): tredinger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: Southeast

Contact(s): Richard

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

On Dale 200 ft south of la Palma starting at station 2+75 and ending at 3+70

Scope of Construction Work Monitored/Equipment Used:

Case backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

The crew started digging at 9:00 where they had left off at 2+75. Hey continued trenching southward up to 7 ft deep in the bell holes. Trenching was faster than previous days due to a replaced backhoe operator and more solidified sand. They finished he day at 3+60.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Fill sediment is reused native sediment. This fill goes down between 2 and 5 ft from the surface (undulating depths dependent on preexisting utilities). The fill is medium tan and contains some broken asphalt or modern pipe in places. Below fill and disturbed areas the native sediments consist of medium to fine white tan sand that is generally massive in texture but does contain some stratification at depths around 6 ft. The sand is primarily quartz based and contains a lot of biotite.

Lithologic Description(s):

Observations of Paleontological Resources:

None

Additional Comments:

Worked with Natalie and Jennifer today.

Plan for tomorrow:

Finish last 100 ft of the trench between La Palma and Tamarak

Attachments (Y/N): ☒ Yes ☐ No

Photograph Record:

9/30/2019 10:40:24 AM

10/1/2019 6:31:46 AM



South. Crew excavating down to 7 ft at bel hole (3+20)

Souh, sidewall exposure in the bellhole at 3+50



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 9/30/2019 1:31:04 PM

Project Location: Buena Park

Weather:

Clear, sunny and warm

Monitor(s): ggranger

Work Start Time: 7:00

Work End Time: 3:30

Construction Company: SE pipeline

Contact(s): Alain Meyer (SCG)

Did the (sub)contractors work more than 8 hours (Y/N)?

☐ Yes ☒ No

Was the Safety Briefing Attended/Signed:

☒ Yes ☐ No

Project Description:

405 Dale Ave Buena Park

Scope of Construction Work Monitored/Equipment Used:

2 backhoes

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Monitoring 2 backhoes excavating 8 foot deep pipeline trench at stations 35+00=35+50 and 37+15-37+35

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Light tan poorly sorted Medium and coarse grain sands with pebbles and granules. In marked Clay pipe sewer at station 37+25 5 ft bgs.

Lithologic Description(s):

Observations of Paleontological Resources:

Fill down to 2-3 feet then native sands 3-8 feet

Additional Comments:

David Alexander monitored for Paleontology

Plan for tomorrow:

Continue Monitoring

Attachments (Y/N):

☐ Yes ☒ No

Photograph Record:

Attachment 8 – ELEC-1

Attachment 8 has been deliberately left blank in this reporting period

Attachment 9 – GEN-2 Master Drawing List

Attachment 9 has been deliberately left blank in this reporting period

Attachment 10 – GEN-3 CBO Payment



[Home](#) [Accounts](#) [Payments](#) [Transfers](#) [Check Services](#) [Tools](#)

Timeout: 0:14:44

View US Wire

Use this page to view a US Wire

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Payment Information

Status	Confirmed
Confirmation Number	IMAD:1001L4B74B1C000062
Payment Number	50156942
Debit Account	SERC OP - *****6538
Debit Amount	127,344.34 USD
Value Date	10/01/2019
Send Date	10/01/2019
Frequency	One-Time Only
Reference for Recipient	Invoice# 134623
Details of Payment	Stanton Energy Reliability Center Project No: 550818-0000020.00 Invoice No: 134623
Ordering Customer	

Recipient Information

Recipient	NVS Inc. [REDACTED] [REDACTED] Hollywood, FL 33021-6798
Recipient Bank	BANK OF AMERICA, N.A., NY ABA (Wire) 026009593 NEW YORK NY UNITED STATES

Options

Intermediary Bank

Receiving Bank

Bank to Bank Information

[Cancel](#)

Attachment 11 – GEN-6 Special Inspectors

JAMES HEANEY, P.E.

STRUCTURAL ENGINEER

YEARS OF EXPERIENCE

10

EDUCATION

- B.S., Civil Engineering, University of Kansas

AREAS OF EXPERTISE

- Coal-Fired Power Plants
- Combustion Turbines
- Deep Foundation Analysis and Design
- Repair and Remodeling of Existing Structures

LICENSING

- P.E.: Alabama
- P.E.: Arkansas
- P.E.: Iowa
- P.E.: Kansas
- P.E.: New Mexico
- P.E.: New York
- P.E.: Ohio
- P.E.: Pennsylvania
- P.E., Structural: Texas

SPECIAL TRAINING

- PSMJ A/E/C Project Management Bootcamp

CERTIFICATION

- Transportation Worker Identification Credential Certified

AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- Structural Engineers Association of Kansas and Missouri (SEAKM)
- American Concrete Institute (ACI)

EXPERIENCE SUMMARY

Mr. Heaney is responsible for planning, design, and construction support for structural projects relating to electric power generation, energy distribution, material handling, and industrial facilities. He has experience on several types of structural design projects working with steel, concrete, and masonry. Mr. Heaney has completed designs for both superstructures and substructures of new and existing facilities.

Montana Dakota Utilities Co., Heskett Unit 3, Mandan, North Dakota

Lead Structural Engineer responsible for a new 88 MW GE 7EA combustion turbine installed adjacent to two (2) existing coal-fired units with design provisions for a future Unit 4 and combined-cycle option. Contract Engineer for underground and site work contract portion of the project. Responsible for design of all concrete foundations, pipe/duct supports, Service Building, and exhaust stack design and procurement.

Westar Energy, Westar JEC Bottom Ash Settling Tank, St. Marys, Kansas

Project Engineer responsible for coordinating design activities of all involved engineering disciplines and sub-consultants. Lead structural engineer responsible for designing the reinforced concrete tank and flow control scheme. POWER completed the design of a concrete bottom ash tank at Westar's Jeffrey Energy Center to replace the existing bottom ash settling area. The Jeffrey Energy Center has three (3) 780 MW coal fired units located near St. Marys, Kansas that went into service between 1978 and 1983. POWER's scope of work included tank sizing for proper bottom ash settling, civil site design, civil/structural concrete tank design, and mechanical design for rerouting the bottom ash sluice piping and tank outlet

Associated Electric Cooperative Inc., New Madrid Power Plant Projects, Marston, Missouri

Lead Structural Engineer responsible for the fly ash silo modifications project responsible for overseeing the fly ash mixer installation package for dry to wet ash conversion. These projects included the addition of fly ash conditioning equipment to an existing fly ash silo installation to allow discharged fly ash product to be hauled in open trucks to landfill. Assistant structural engineer on coal reclaim tunnel structural review, which included analysis and redesign of feeder hoppers, sump, and conveyor components.

MidAmerican Energy Company, Neal Energy Center Unit 3 Coal Unloading Control Building Replacement Project, Sergeant Bluff, Iowa

Lead Structural Engineer and Project Engineer responsible for project to design a replacement coal unloading control building. Responsible for coordinating design among all disciplines on the project including architectural, mechanical, electrical and controls. Performed LIDAR scan of the existing coal control building and the surrounding area. Project included a new 60'x25' building elevated approximately 20-feet off the ground and straddling existing rail car building and unloading tracks. Building was designed for occupancy of 8 employees and was completed on a fast-track design process.

Kansas City Power & Light, Iatan Generating Station 2C Clarifier Construction Management Project, Weston, Missouri

Lead Structural Engineer responsible for providing on-site construction support during the installation of an 83-foot diameter tank and pump building. This included piling and foundation work, underground pipe and electrical installation, and construction support and management. Managed field Requests for Information, weekly meeting agendas, change order logs, locating existing underground utilities to coordinate pre-dig meetings with contractor, and performed or coordinated building special inspection services for the county.

Johnson Controls, Red River Army Department Biomass Boiler Addition, Hooks, Texas

Lead Structural Engineer responsible for new biomass boiler addition including the design of new fuel storage building foundation, specification of pre-engineered metal Fuel Building, and modifications to existing boiler building to support and house a new 25,000 pounds-per-hour wood biomass boiler. POWER was retained by Johnson Controls, Inc. (JCI) to perform schematic design and prepare detail design documents for the addition of a biomass boiler to an existing co-fired (coal and biomass) boiler plant. The new boiler addition included a nominal 27,600 lb/hr, 125 psig, wood-fired boiler, preheater, fly ash collector, ESP, material handling, indoor fuel storage, and control room modifications at Red River Army Depot. The boiler was installed inside the existing boiler house. POWER's work included Civil, Structural, Mechanical, Electrical, & Controls Design, Storm-Water, Grading Design, & Underground Utility Relocation, Equipment Foundations & Walking Floor Fuel Storage Design, Balance-of-Plant Equipment Sizing & Specification, Tie-Ins to Existing Facility, Steam & Feedwater Piping Design, New Motors & VFDs to Existing ID & FD Fans, Form of Contract: Performance Contract (Between JCI and Owner), Energy Conservation Measure 1 - Biomass Boiler Addition and Energy Conservation Measure 2 - Upgrade to Existing Boilers.

Westar Energy, Lawrence Energy Center Projects, Lawrence, Kansas

Lead Structural Engineer responsible for the Unit 5 mill platform extension project. Responsible for design of platforms and monorail modifications. Lead structural engineer on the Unit 5 mill feeder stand modification to improve access for installation of explosion prevention device. Lead

Structural Engineer on the replacement of existing pump house roof in addition to concrete and masonry repairs and modifications. Lead Structural Engineer for redesign of the Conveyor 7 underhung take-up pulley platform. Lead Structural Engineer for Unit 4's main steam isolation valve platform. Lead structural engineer for inspection and analysis for Units 3, 4, and 5 stack platforms and ladders.

Westar Energy, Tecumseh Energy Center Projects, Topeka, Kansas

Lead Structural Engineer responsible for the design of a copper ion generator installation package in existing pump house. Lead structural engineer for study that provided inspection, analysis, and conceptual repairs for original 1920's boiler house which was previously decommissioned and abandoned in place. Project was later amended to study 1950's boiler house addition and 1920's river intake structure which have remained in use. Lead structural engineer for Unit 8/10 cooling tower replacement and inspection of reused tower basin. Lead structural engineer for mill rigging plan study. Lead structural engineer in study performed to evaluate design of existing mill lifting devices.

Moly-Cop USA, Moly-Cop Grinding Media Plant Projects, Kansas City, Missouri

Lead Structural Engineer and Project Manager for Ball Annealing and Heat Treatment Conversion Project to improve product quality. Assisted in specifications and provided layout for rotary hearth furnace, lift conveyors, cooling bed, and overhead crane. Designed and provided field support for all construction activities including new equipment foundations, gravity-fed chute work, access platforms, 120-ton annealing hopper, hydraulic system, electrical/control systems, and pneumatic systems. In another project, Mr. Heaney acted as Project Manager, Lead Engineer and Lead Structural Engineer responsible for the replacement of existing cooling tower with larger, more efficient unit reusing the existing foundation and pumps/equipment. Additional structure, platforms, and instrumentation were added to the cooler tower as a portion of this project to scope of project.

Massachusetts Institute of Technology, Massachusetts Institute of Technology MIT Boiler 9 and Building N16C

Lead Structural Engineer responsible for the boiler upgrade which included substructure and superstructure design of a steel framed building to enclose a new and existing boiler. Project also included specifications for a 185-foot stack and design of its foundation. This project replaced an existing package boiler with an ultra-low NOx O-type 100 kpph package boiler. A surrounding building with HVAC, bathroom, and plant drains was added to conceal and protect the boilers and associated equipment. POWER provided full engineering design services (mechanical, electrical, civil, structural, and air quality) while subcontracting architectural services. This project is located in the middle of campus on a small footprint. Extensive planning and a custom boiler design were required to fit the available space. POWER assisted MIT in this planning process and worked with the boiler manufacturer to design a solution that would meet stringent environmental emissions in this small footprint. POWER also helped improve student safety by redesigning the

blow down system. The plant successfully remained in operation during construction, even in spite of space constraints.

Argus Consulting, Defense Fuel Support Point, Charleston, South Carolina

Assistant Structural Engineer responsible for design of repairs to 18-inch diameter jet fuel pipelines. Work included steel pipe support designs and concrete foundation design. Project also included designing the 80-foot long pipe bridge replacement to existing unloading wharf.

City Utilities of Springfield, John Twitty Energy Center, Springfield, Kansas

Lead Structural Engineer and acting Project Manager responsible for Bottom Ash Dewatering Tank Project. Provided specification, detailed design, bid evaluation and construction support services for a 160 feet by 230 feet by 12 feet deep concrete tank with pump support and access platforms, and coordinated all design disciplines. Engineering design and construction were on an expedited schedule and occurred simultaneously in approximately four (4) months.

CCC Group, Longview Power Plant, Maidsville, West Virginia

Lead Structural Engineer on the five mile outdoor coal overland conveyor system (Phase III) including bridge foundations, transfer house and tower foundations, and an underground reclaim structure.

Westar Energy, Jeffrey Energy Center, St. Marys, Kansas

Lead Structural Engineer responsible for the design of new monorail systems for various pumps in the Absorber Building. Lead Structural Engineer on SNCR and Overfire Air retrofit project for Unit 3 with provisions for future Unit 2 system that was eventually installed by Mr. Heaney. Project included design of foundations for Urea Solutionizing Building, Outdoor Tank Farm, and Outdoor Truck Unloading Pit. Project superstructure designs included steel modifications and additions to accommodate three (3) premanufactured enclosures various pieces of equipment installed on an existing 15-story boiler framing structure. This project also included preliminary design and specification of a 40-feet by 80-feet by 43-feet pre-engineered solutionizing building with mezzanine. Lead Structural Engineer on the design of Unit 3 absorber inlet damper rigging plan supported by existing structural steel. Lead Structural Engineer on study and rigging plan for addition of an electrical skid on the 9th floor of the Unit 1, 2, and 3 boiler building. Lead Structural Engineer on design of Units 1, 2, and 3 boiler hatch access platforms. Lead Structural Engineer on inspection of Units 1, 2, and 3 stack inspection project. Lead Structural Engineer on bottom ash hopper strain gauge study. Assistant Structural Engineer for inspection and design of modifications for Units 1, 2, and 3 mill maintenance platforms. Lead Structural Engineer for 106 and 107 Feedwater Heater Replacement project, which included all structural steel analysis, modifications, and verification of rigging loads to remove and replace two (2) existing 90-ton feedwater heaters on congested elevated platforms of a 15 story boiler structure.

Eric S. Newman, SE - TranSystems Structural Engineer

Mr. Newman is an Assistant Vice President at TranSystems and is a licensed structural engineer in the state of California. He has conducted structural investigations, structural observations and seismic evaluations, and designed repairs and renovations to many types of structures including buildings, bridges, and waterfront structures. Eric is proficient in the condition assessment, analysis, design, and detailing of reinforced concrete, prestressed concrete, steel, timber and masonry. His experience includes industrial, administrative, training, warehouses, maintenance facilities, and barracks. He has conducted various nondestructive testing (NDT) investigations and destructive concrete explorations. He has prepared condition assessment reports, repair recommendations, construction plan sets, construction specifications, and cost estimates.

Marine Safety Building Repairs, San Clemente, CA

Project Manager, Engineer of Record. Structural concrete and timber repairs to the 6,000 SF pile supported Lifeguard Headquarters and design of new steel sheet pile bulkhead with concrete cap and concrete slope protection (2018).

Welding School Renovations, U.S. Navy, Pearl Harbor, HI

Engineer of Record. Design of repairs and renovations to a 9,000 SF steel shop building including new wind girts, roof framing, interior classrooms, masonry walls, moment frame supported mechanical platform and operable partition (2017).

Snow Park Restroom Seismic Retrofit, Oakland, CA

Engineer of Record. Seismic retrofit of unreinforced masonry and timber park restroom (2017).

LAX Consolidated Rental Car Facility, Los Angeles, CA

Design Engineer. Preliminary design of campus with multiple four-story concrete buildings totaling 5.9 million square feet for rental car customer service, storage, and maintenance (2016).

SPAWAR End to End Lab, U.S. Navy, Point Loma, CA

Project Manager, Engineer of Record. Design of a new two-story 4,000 square foot masonry and steel office building with a concrete mat foundation (2016).

FRC Building & Pier 4 Extension, U.S. Coast Guard Training Center, Cape May, NJ

Engineer of Record. 270 feet long x 25 feet wide concrete pier extension & 10,500 SF Support Building. Design of new extension to concrete pier for new 154' Fast Response Cutters and design of new one story masonry support building on a steel pipe pile foundation (2015).

Registrations

Professional Engineer –
Civil CA C81585, 2013

Structural Engineer –
CA S6508, 2017

Education

MS, Structural Engineering,
University of Massachusetts Lowell,
2010

BS, Civil Engineering, University of
Maine, 2008

Training

OSHA 10 Hour Construction and
Safety Training

OSHA Confined Entry Training

First Aid, CPR, AED & Emergency
Oxygen Certification

PADI Open Water Diver

Affiliations & Memberships

American Society of Civil Engineers,
2004

Structural Engineers Association of
California, 2011

Society of American Military
Engineers, 2018

Years of Experience

11

Years with Firm

9



U.S. Coast Guard Station Atlantic City, Atlantic City, NJ

Design Engineer. 150' long steel sheet pile bulkhead with concrete cap, Stone revetment & new two-story 11,700 square feet pile-supported Boat Maintenance Facility. The new bulkhead was installed in front of an existing failing seawall. The gap between the existing and new bulkheads was filled with lean concrete to prevent soil migration into the void space between walls (2015).

U.S. Coast Guard Station Manasquan Inlet, Point Pleasant Beach, NJ

Design Engineer. 300' long steel sheet pile bulkhead with concrete cap & 75' long helical soil anchors, Concrete boat launch ramp & new three-story 21,300 square feet pile-supported Multi-Mission Building. The new bulkhead was installed in front of an existing failing seawall (2015).

Building 980 Seismic Retrofit, U.S. Marine Corps, Yuma, AZ

Project Manager, Engineer of Record. Seismic Retrofit of 11,000 SF wood office building (2015).

Mission Bay Yacht Club Bodrero Building, San Diego, CA

Inspector, Report Writer. Top deck and underdeck structural condition assessment of 6,000 square foot timber pile supported clubhouse. Repair recommendations, design concepts, Building Code analysis, and cost estimate for repairs (2015).

FRC Homeport Upgrades, U.S. Coast Guard Base Ketchikan, Ketchikan, AK

Design Engineer. 400 feet long concrete floating dock, concrete wharf upgrade for crane operations, 240 feet long concrete seawall and new two-story 12,600 square feet MAT/HAZMAT Building (2014).

Homeporting FRC, U.S. Coast Guard Base Honolulu, Honolulu, HI

Design Engineer. 600 feet long concrete wharf & 8,300 square feet MAT Building. Inspection and Design of upgrades to concrete wharf Berths C & D and new MAT building (2014).

SPAWAR Command & Intelligence Lab, U.S. Navy, Point Loma, CA

Design Engineer. Design of a new 5,000-square-foot masonry and steel office building for a classified lab (2014).

SPAWAR Building 588, U.S. Navy, Point Loma, CA

Design Engineer. Design of a second story addition to the 1,500 square foot wood office building (2014).

FoodComm International Food Warehouse & Processing Facility, Logan Township, NJ (2013)

Design Engineer. New 110,000 SF steel cold storage warehouse with mezzanine (2013).

NOAA La Jolla Laboratory Replacement, La Jolla, CA

Design Engineer. New five-story 240,000 SF concrete and steel building with laboratories, offices, parking garage and 33 feet deep technology tank (2012).

MCRD Parade Ground Restroom, U.S. Marine Corps, San Diego, CA

Design Engineer. Design of a new 1,800 SF masonry restroom (2012).

National Park Services (NPS) Alcatraz Park Water Tower, Alcatraz Island, CA

Design Engineer. Assessment of the deteriorated tank wall and internal bracing and associated structural stability analysis of the restoration of the historic Alcatraz Water Tower. Scaffold wind loading analysis of the 95 foot tall steel water tower (2011).

Kevin H. Nguyen, PE - TranSystems Project Engineer

Mr. Nguyen is a licensed Civil Engineer in the state of California with over 4 years of experience in the structural design and inspection of buildings, bridges, retaining walls, and waterfront structures. He has a strong understanding of gravity and lateral force resisting systems for structures. He is proficient in the analysis, design, and detailing of reinforced concrete, prestressed concrete, steel, timber and masonry. Kevin's graduate studies focused on the seismic analysis and design of buildings in California.

Rosecrans Maintenance Building, County of Los Angeles, Manhattan Beach, CA

Project Engineer, Inspector. Design of structural repairs to a two story 5,500 SF maintenance and lifeguard headquarters building including concrete spall repair, timber repairs and masonry repairs.

Welding School Renovations, U.S. Navy, Pearl Harbor, HI

Project Engineer. Design of repairs and renovations to a 9,000 SF steel shop building including new wind girts, roof framing, interior classrooms, masonry walls, steel moment frame supported mechanical platform and operable partition.

Mandalay Bay Seawall Condition Assessment & Monitoring, Oxnard, CA

Project Engineer, Inspector. 7 miles of timber pile supported cantilever concrete seawalls and tie-back supported precast concrete seawalls. Inspection and condition assessment of seawalls with suspected movement.

Marine Safety Building Repairs, San Clemente, CA

Project Engineer. Structural concrete and timber repairs to the 6,000 SF pile supported Lifeguard Headquarters and design of new steel sheet pile bulkhead with concrete cap and concrete slope protection.

T-Street Bridge Renovation, San Clemente, CA

Project Engineer. TranSystems performed a non-destructive visual condition survey of the concrete deck topping on the T-Street pedestrian bridge, made repair recommendations and provided budgetary cost estimates for repairs. TranSystems then prepared construction drawings and specifications for the replacement of the dock topping slab using polymer modified mortar.

I-5 Widening Segment 2 (Oso Parkway to Alicia Parkway), OCTA, Mission Viejo and Laguna Hills, CA

Project Engineer. Design of highway widening including reestablishment of existing auxiliary lanes, interchange reconstruction, ramp modifications, bridge widening and replacement, retaining walls, and sound walls. The project included a complete interchange reconstruction at La Paz Road with added capacity on La Paz road, Oso Creek and El Toro overhead bridge widening, replacement of the La Paz Road UC bridge structure and northbound off-ramp bridge over SCRRA/Metrolink tracks.

Registrations

Professional Engineer –
Civil CA C89650, 2018

Education

MS, Civil Engineering, University of California, Irvine, 2019

BS, Civil Engineering, University of California, Irvine, 2015

Training

OSHA 10 Hour Construction and Safety Training

First Aid, CPR, AED & Emergency Oxygen Certification

Affiliations & Memberships

American Society of Civil Engineers, 2015

Years of Experience

4

Years with Firm

4

BRYAN MORRIS

Inspector

Professional Registrations

- ICC , Structural Masonry No. 5224817-84
- ICC, Reinforced Concrete No. 5224817-49
- ACI – Field Technician Grade 1, No. 01004021
- Certified Nuclear Gauge Operator

Mr. Morris is a well-qualified special inspector with 18 years field and laboratory experience. He has performed the duties of Quality Control Inspector, Supervisor/Inspector, Senior Construction Inspector for major industrial improvement projects with a range of base material and structures. He is trained in Caltrans test procedures and is familiar with methods, materials, tools and equipment utilized in highway construction. Duties for recent work include compliance, verifying and monitoring of documentation and project material, inspection, sloping and shoring, underground utilities, overhead obstructions, inspection of excavation, backfill, culverts, foundations, sub-grade, cement treated base, JPCP, concrete, dowels, tie bars, plane joints, texturing, profiling, HMA proof rolling and compaction, steel case jacking, drainage structures, shoring, grouting of encasement/pipe.

CARLSBAD DESALINATION PLANT [POSEIDON PROJECT], CARLSBAD

Special Inspector | Responsible for the inspection of civil and structural components of the project. Coordinating with the contractor, field engineers and architects on diagnosis and problem solving as well as suppliers and procurement receiving verification, coatings contractor and substraight /application verifications and resistance testing, millwrights and motor/pump alignment rotation verification, electrical underground and above ground conduit installation and code compliance verification, also grounding, wire termination, and instrumentation testing and verification.

El Segundo Energy Center- Lead Inspector

Provided lead QC inspection for the replacement of 660 MW combined cycle power plant. Observed demolition of the existing main tank, surge tanks, piping and perimeter structures. Site confinement required that all demo materials be removed daily due to site location and size. Observed grading, structural foundation and concrete placement, placement of specialized oil barrier, and removal and installation of intake and outfall piping. Observed the placement of structural steel tank with specialized handling of the components due to size and storage at site. Observed installation of replacement of HRSG units and all related utilities.

Canyon Power Plant, Anaheim [Completed Sep 2011]

Provided lead inspection for this 200 MW simple cycle gas fired plant. Provided concrete and civil inspection in addition to assisting with the review of submittals and construction work plans. Performed quality control inspection of storm drain, edge drain, underground electrical conduits, barrier, sign trusses framings, DTi washers, concrete placement, reinforcing steel.

Recycled Water Facilities, Corona

Provided lead QC inspection for approximately 142,000 linear feet of recycled water transmission pipelines. In addition, the project consists of three recycled water pump stations, three pre-stressed concrete recycled water storage reservoirs and improvements to existing tertiary treatment facilities. Mr. Morris provided the lead inspection for this project overseeing multiple support personnel.

ExxonMobil, Torrance, CA – Provided concrete inspection for the ESP structure.

Long Beach Community College Pipeline Project, Long Beach, CA

Pier “S” Expansion, Port of Long Beach, CA Provided QC civil inspection, concrete sampling and oversight inspection.

Pier “E” Expansion, Port of Long Beach, CA Provided QC civil inspection, concrete sampling and oversight inspection.

MTA Blue Line, Long Beach, CA

Henry Ford Grade Separation, Wilmington, CA

PCH (Caltrans District 7), Ventura, CA

Newport Reservoir, Newport Beach, CA

Fullerton Municipal Airport, Fullerton, CA

Kaiser Anaheim Medical Center, Irvine, CA – Provided lead soils inspection for the HSB, Medical Tower, Central Plant & Parking Structure.

Kaiser Corona Medical Center, Corona, CA – Provided lead soils inspection for the MOB.

Kaiser Sand Canyon Medical Center, Irvine, CA – Provided lead soils inspection for the HSB, Medical Tower, Central Plant & Parking Structure.

Kaiser Downey Medical Center, Downey, CA – Provided Soils inspection for the MOB & Hospital.

Kaiser Permanente Hospital, Ontario, CA – Provided lead soils inspection for the MOB, Central Plant & Surgery Center.

Long Beach Community College Pipeline, Long Beach

Kaiser Medical Center, Anaheim

Provided lead soils inspection for the HSB, Medical Tower, Central Plant & Parking Structure.

ExxonMobil, Torrance – Provided concrete inspection for the ESP structure.

Kaiser Corona Medical Center, Corona – Provided lead soils inspection for the MOB.

Kaiser Sand Canyon Medical Center, Irvine – Provided lead soils inspection for the HSB, Medical Tower, Central Plant & Parking Structure.

Kaiser Downey Medical Center, Downey – Provided Soils inspection for the MOB & Hospital.

Kaiser Permanente Hospital, Ontario – Provided lead soils inspection for the MOB, Central Plant & Surgery Center.

Casteler Elementary School – Library Renovation

Sonia M. Sotomayor Learning Academies, Los Angeles

This new school consists of five small learning communities that include classrooms, science labs, and academy administration.

- **Pier “S” Expansion**, Port of Long Beach
Provided soils inspection, concrete sampling and oversight inspection.
- **Pier “E” Expansion**, Port of Long Beach
Provided soils inspection, concrete sampling and oversight inspection.
- **Los Angeles Regional Transp. Mgmt. Center**, Glendale (DGS)
- **Fair Oaks Ranch Elementary School**, Canyon Country
- **Mitchell Elementary School**, Canyon Country
- Madison Elementary School, Pasadena
- Marshall High School, Pasadena
- Longfellow Elementary School
- GSA Federal Bldg., Santa Ana
- Cerritos Millennium Library, Cerritos
- MTA Blue Line, Long Beach
- Henry Ford Grade Separation, Wilmington
- PCH (Caltrans District 7), Ventura
- West Knoll Housing Project, Hollywood
- West Palm Housing Project, Hollywood
- Newport Reservoir, Newport Beach
- Fullerton Municipal Airport, Fullerton

Attachment 12 – Gen-7 Discrepancy

<Attachment 12 has been deliberately left blank in this reporting period>

Attachment 13 – GEN-8 Final Inspections

< Attachment 13 has been deliberately left blank in this reporting period >

Attachment 14 – SOIL&WATER-4 Water Use

Meter 6917650
10711 Dale Street, Stanton CA

Date	Reading	Usage CF
9/2/2019	68770	820
9/3/2019	69590	820
9/4/2019	70220	630
9/5/2019	70740	520
9/6/2019	71310	570
9/9/2019	71940	630
9/10/2019	72550	610
9/11/2019	73110	560
9/12/2019	73660	550
9/13/2019	73990	330
9/16/2019	74640	650
9/17/2019	75120	480
9/18/2019	75620	500
9/19/2019	76070	450
9/20/2019	76520	450
9/23/2019	77140	620
9/24/2019	77540	400
9/25/2019	77980	440
9/26/2019	78210	230
9/27/2019	78370	160
9/30/2019	78810	440
Total		10860

Attachment 15 – SOIL&WATER-8 Encroachment Permit

< Attachment 15 has been deliberately left blank in this reporting period >

Attachment 16 – STRUC-1 CBO Approvals

MEMORANDUM – DCBO APPROVAL

DATE: September 9, 2019

TO: Engineering Manager
Stanton Energy Reliability Center, LLC/W Power, LLC

FROM: Alan Ho, S.E., Senior Structural Engineer
NV5, Inc.
Alan.Ho@nv5.com
916.346.8866

CC: Eric Rodriguez, Lead Engineer
NV5, Inc.

SUBMITTAL: SERC_16-AFC-01_STRUC-1-43.0_GSU & CALCS_190829_PCF

MEMORANDUM:

This memorandum is to inform you that NV5, the Delegate CBO for the **STANTON ENERGY RELIABILITY CENTER (16-AFC-01)**, has reviewed the subject submittal, and deemed it compliant with the 2016 California Building Standards Code (CBSC) and applicable Laws, Ordinances, Regulations and Standards (LORS).

Should you have any questions or need additional information, please feel free to contact me.

SERC_16-AFC-01

--- REVIEWED ---

This review is intended only to verify conformity to the 2016 edition of the California Building Standards. It does not relieve Contractor and Applicant of responsibility for requirements of Project drawings and specifications. No responsibility is assumed for fabrication or construction techniques, correctness of quantities or dimensions, or coordination of work with other trades. Omissions & Errors on documents shall not be valid and all codes and Laws must be complied with.

Digitally signed by Alan Ho

Reason: Reviewed for Code Compliance.

Date: 2019.09.09 22:02:19 -07'00'

MEMORANDUM – DCBO APPROVAL

DATE: July 22, 2019

TO: Engineering Manager
Stanton Energy Reliability Center, LLC/W Power, LLC

FROM: Alan Ho, S.E., Senior Structural Engineer
NV5, Inc.
Alan.Ho@nv5.com
916.346.8866

CC: Eric Rodriguez, Lead Engineer
NV5, Inc.

SUBMITTAL: SERC_16-AFC-01_STRUC-1-20.0_DEMIN TANK & CALCS_190712_PCF

MEMORANDUM:

This memorandum is to inform you that NV5, the Delegate CBO for the **STANTON ENERGY RELIABILITY CENTER (16-AFC-01)**, has reviewed the subject submittal, and deemed it compliant with the 2016 California Building Standards Code (CBSC) and applicable Laws, Ordinances, Regulations and Standards (LORS).

Should you have any questions or need additional information, please feel free to contact me.

SERC_16-AFC-01

--- REVIEWED ---

This review is intended only to verify conformity to the 2016 edition of the California Building Standards. It does not relieve Contractor and Applicant of responsibility for requirements of Project drawings and specifications. No responsibility is assumed for fabrication or construction techniques, correctness of quantities or dimensions, or coordination of work with other trades. Omissions & Errors on documents shall not be valid and all codes and Laws must be complied with.

Digitally signed by
Alan Ho

Reason: Reviewed for
Code Compliance.

Date: 2019.07.22

20:18:00 -07'00'

MEMORANDUM – DCBO APPROVAL

DATE: September 9, 2019

TO: Engineering Manager
Stanton Energy Reliability Center, LLC/W Power, LLC

FROM: Alan Ho, S.E., Senior Structural Engineer
NV5, Inc.
Alan.Ho@nv5.com
916.346.8866

CC: Eric Rodriguez, Lead Engineer
NV5, Inc.

SUBMITTAL: SERC_16-AFC-01_STRUC-1-22.0_FGC SKID & CALCS_190829_PCF

MEMORANDUM:

This memorandum is to inform you that NV5, the Delegate CBO for the **STANTON ENERGY RELIABILITY CENTER (16-AFC-01)**, has reviewed the subject submittal, and deemed it compliant with the 2016 California Building Standards Code (CBSC) and applicable Laws, Ordinances, Regulations and Standards (LORS).

Should you have any questions or need additional information, please feel free to contact me.

SERC_16-AFC-01
--- REVIEWED ---

This review is intended only to verify conformity to the 2016 edition of the California Building Standards. It does not relieve Contractor and Applicant of responsibility for requirements of Project drawings and specifications. No responsibility is assumed for fabrication or construction techniques, correctness of quantities or dimensions, or coordination of work with other trades. Omissions & Errors on documents shall not be valid and all codes and Laws must be complied with.

Digitally signed by
Alan Ho
Reason: Reviewed for
Code Compliance.
Date: 2019.09.09
21:05:27 -07'00'

MEMORANDUM – DCBO APPROVAL

DATE: September 17, 2019

TO: Engineering Manager
Stanton Energy Reliability Center, LLC/W Power, LLC

FROM: Charles Griffin, Deputy DCBO
NV5, Inc.
charles.griffin@nv5.com
619.729.7225

CC: Eric Rodriguez, Lead Engineer
NV5, Inc.

SUBMITTAL: SERC_16-AFC-01_STRUC-2-1.0_STRUC OBSERVATIONS_190909_PC2

MEMORANDUM:

This memorandum is to inform you that NV5, the Delegate CBO for the **STANTON ENERGY RELIABILITY CENTER (16-AFC-01)**, has reviewed the subject submittal, and deemed it compliant with the 2016 California Building Standards Code (CBSC) and applicable Laws, Ordinances, Regulations and Standards (LORS).

Should you have any questions or need additional information, please feel free to contact me.

MEMORANDUM – DCBO APPROVAL

DATE: September 3, 2019

TO: Engineering Manager
Stanton Energy Reliability Center, LLC/W Power, LLC

FROM: Alan Ho, S.E., Senior Structural Engineer
NV5, Inc.
Alan.Ho@nv5.com
916.346.8866

CC: Eric Rodriguez, Lead Engineer
NV5, Inc.

SUBMITTAL: SERC_16-AFC-01_STRUC-1-35.0_CM 1 & 2_190826_PCF

MEMORANDUM:

This memorandum is to inform you that NV5, the Delegate CBO for the **STANTON ENERGY RELIABILITY CENTER (16-AFC-01)**, has reviewed the subject submittal, and deemed it compliant with the 2016 California Building Standards Code (CBSC) and applicable Laws, Ordinances, Regulations and Standards (LORS).

Should you have any questions or need additional information, please feel free to contact me.

SERC_16-AFC-01

--- REVIEWED ---

This review is intended only to verify conformity to the 2016 edition of the California Building Standards. It does not relieve Contractor and Applicant of responsibility for requirements of Project drawings and specifications. No responsibility is assumed for fabrication or construction techniques, correctness of quantities or dimensions, or coordination of work with other trades. Omissions & Errors on documents shall not be valid and all codes and Laws must be complied with.

Digitally signed by
Alan Ho
Reason: Reviewed
for Code
Compliance.
Date: 2019.09.03
23:16:41 -07'00'

Attachment 17 – TRANS-1 Permits

TRANS-1 Roadway Use Permits and Regulations

1. Transformer delivered on 9/4/19 – 9/6/19
 - City of Stanton - #TPO-529
2. Coil Module delivered on 9/12/19 – 9/19/18
 - State of California
3. Steel Duct Section Unit 1 M2 delivered on 9/13/19 – 9/19/19
 - State of California -#e19-084379
4. Cooling fan delivered on 9/5/19 – 9/11/19
 - State of California -#e19-082581
5. Turbine Skid delivered on 9/18/19 – 9/20/19
 - Los Angeles County Dept. Public Works - 358807
6. Generator Base delivered on 9/18/19 – 9/20/19
 - Los Angeles County Dept. Public Works - 358805
7. Steel Duct Section Unit 1 M 3 delivered on 9/13/19 – 9/19/19
 - State of California -#e19-084380
8. Roof Skid delivered on 09/18/19 – 09/24/19
 - State of California -#e19-086874
9. Generator 1 delivered on 9/22/19 – 9/28/19
 - State of California -#e19-087429
10. Dust Module 16 delivered on 9/20/19 – 9/26/19
 - State of California -#e19-086918
11. Crated Machine Center delivered on 9/23/19 – 9/29/19
 - State of California -#e19-088377
12. Crated Machine Center delivered on 9/23/19 – 10/23/19
 - City of San Bernardino – WL19-00666
13. Crated Machine Center delivered on 9/23/19 – 9/25/2019
 - City of Stanton – TPO-550
14. Frame Module – 09/24/19 – 09/26/19
 - City of Stanton – TPO-553

TRANS-1 Roadway Use Permits and Regulations

15. Crated Machine Center delivered on 09/23/19 – 09/29/2019
 - State of California – e19-088310
16. Crated Machine Center delivered on 9/23/19 – 10/23/2019
 - City of San Bernardino – WL19-00667
17. Crated Machine Center delivered on 9/23/19 – 9/25/2019
 - City of Stanton – TPO-551
18. Gas Monitoring Building delivered on 9/24/19 – 9/26/2019
 - City of Stanton – TPO-555
19. Duct Module, Module M-4 delivered on 09/20/19 – 09/26/19
 - State of California – 275352 CT

Attachment 18 – Safety Inspection Report



SERC – PSC MONTHLY SAFETY INSPECTION COMPLIANCE REPORT

SEPTEMBER 2019

The following information for the SERC Project safety inspection and compliance to the site as required by CEC, CBO and Wellhead in the month of September 2019.

We have been in compliance with all safety policies and procedures on the SERC project. Personnel have been participating in our Personal Safety Commitment observation program and stop work responsibility has been a big focus to our constantly changing safety culture. We have had no Safety Incidents or Injuries to report and/or that have been reported to the SERC-ARB Safety Department for this period. We have had a Safety Recognition Lunch this month to celebrate this milestone.

We have been processing a number of new Personnel for ARB and our Sub-Contractors through the SERC WEAP Orientation and SERC Site specific Safety training. Badges are no longer being issued due to the fact that our card reading connex has been removed from site. However, parking passes for all craft workers will continue for established parking at the Bethel Church off of Dale Street. Parking there has been good and the effort has been closely monitored and coordinated.

We have had discussions on Working Near/ Around Crane Operations, Inspections, Barricades & Barricading Systems and Man lift & Scissor Lift Operations as the topics in our all hands safety meetings for the month of September 2019. We have applied special emphasis on staying hydrated again and for the past couple of Months. We are also constantly emphasizing the use of spotters at all times especially around the overhead power lines due to the close proximity of these lines and the tightness of the project location. The triple 9 Maxim Crane has been erected and also the 880 crane and is now on the SERC Project site. We continue to stress to all our Personnel to stay focused, keep aware of your surrounding and do not get complacent.

There as been no near misses, no recordables or loss time Injuries to report for this month.

Tim Draper,

ARB, Inc. Safety Manager,

SERC Project Safety

tdraper@prim.com

(949) 678-1643

Attachment 19 – CIVIL-3 Non-Compliance Reports

<Attachment 19 has been deliberately left blank in this reporting period>

Attachment 20 - COM-6 Filings & Permits to/by Government Agencies

From: noreply@digalert.org
To: ntasich@prim.com
Subject: DigAlert Confirmation for Ticket A190280441-11B
Date: Tuesday, September 24, 2019 7:17:21 AM

EXTERNAL EMAIL

EMLCFM 00263B USAS 09/24/19 07:17:19 A190280441-11B RNEW NORM POLY LREQ

Thank you for contacting Underground Service Alert of Southern California.
This is an automatically generated confirmation of your DigAlert.

For your safety please excavate carefully around the marked utility lines.

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Ticket: A190280441 Rev: 11B Created: 09/24/19 07:16 User: DIRECT Chan: WEB

Work Start: 09/24/19 07:16 Legal Start: 09/24/19 07:16 Expires: 10/22/19 23:59

Response required: N Priority: 2

Excavator Information

Company: ARB, INC.
Co Addr: 26000 COMMERCE CENTRE DRIVE
City : LAKE FOREST State: CA Zip: 92630
Created By: NICHOLAS TASICH Language: ENGLISH
Office Phone: 949-598-9242 SMS/Cell:
Office Email: NTASICH@PRIM.COM

Site Contact: RUBEL MARTINEZ
Site Phone: 661-343-1481 Site SMS/Cell:
Site Email:

Excavation Area

State: CA County: ORANGE Place: STANTON
Zip:
Location: Address/Street: 10711 DALE AVE
: X/ST1: MONROE AVE
:
: AREA BOUNDED E/BY DALE AVE, S/BY APPROX 305FT N/OF N/INTER OF
MONROE
: AVE, W/BY APPROX 1397FT W/OF DALE AVE, N/BY APPROX 441FT N/OF
N/INTER
: OF MONROE AVE;

Delineated Method: WHITEPAINT

Work Type: INSTALL UGRND UTIL, BRIDGE WORK, WALL WORK
Work For : WELLHEAD ELECTRIC
Permit: 16-AFC-01 Job/Work order:
1 Year: N Boring: Y Street/Sidewalk: Y Vacuum: Y Explosives: N

Lat/Long

Center Generated (NAD83): 33.807366/-117.989592 33.807418/-117.984107
: 33.806196/-117.989581 33.806248/-117.984096
Excavator Provided: 33.806648/-117.984594 33.807001/-117.984598
: 33.806951/-117.989093 33.806613/-117.989092

Map link:

https://newtin.digalert.org/newtinweb/map_tkt.nap?TRG=4Ax05r5xw4r4m1x-q

Comments:

****RESEND**UPDATE ONLY-WORK CONT PER NICK TASICH--[JLL 02/15/2019 10:37:32 AM]**
****RESEND**REQUEST REMARKS FROM ALL-WORK CONT W/SIDE TO APPROX 100FT W/OF THE**

W/SIDE OF DALE AVE (TO FENCE LINE) FRM APPROX 305 N/OF THE N/INTER OF MONROE AVE
N/TO APPROX 441FT N/OF MONROE AVE. PER NICK TASICH--[JLL 02/15/2019 10:38:02 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[WEBUBW 03/14/19 13:21]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[WEBUBW 04/10/19 07:48]
RENEW TICKET WORK CONTINUING PER JOSH KRAHL--[DIRECT 05/02/2019 08:52 AM]
RENEW TICKET WORK CONTINUING PER THOMAS JIMENEZ--[DIRECT 05/20/2019 01:16 PM]
RENEW TICKET WORK CONTINUING PER THOMAS JIMENEZ--[DIRECT 06/12/2019 02:20 PM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 07/08/2019 07:50 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 08/01/2019 10:37 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 08/28/2019 10:40 AM]
RENEW TICKET WORK CONTINUING PER JOSHUA KHAHL--[DIRECT 09/24/2019 07:16 AM]

Members:

ATTDSOUTH AT&T DISTRIBUTION - PHONE	ATT DAMAGE PREVENTION HO	510-645-2929
GAR01 C/OF GARDEN GROVE-WATER	LES RUITEMSCHILD	714-290-8986
MWD05 METROPOLITAN WATER	CONTROL ROOM	714-577-5011
SCG28T SC GAS BREA -TRANSMISSION	ADAM JUAREZ	714-634-3196
SCG2XN SC GAS - GARDEN GROVE	LEAD DISPATCHER - CHUCK	800-603-7060
SCW2M GOLDEN STATE WATER - GARDENA	DAVID CATHCART	310-660-0320
SCW2P SO CAL WATER(GOLDEN ST WTR)	GILBERT ESTRADA	562-547-
7073xCELL		
UCHTRW_C5 UTIL/SPECTRUM GG - CATV	SPECTRUM DAMAGE ONLY	844-780-6054
USCE03 UTILIQUEST 4 SCE-NO OR COAST	SC EDISON PERSONNEL	800-611-1911
USCETT84SE UTIL 4 SCE TRNS TELECOM-FIB TCC		800-655-8844

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From: noreply@digalert.org
To: ntasich@prim.com
Subject: DigAlert Confirmation for Ticket A190280541-10B
Date: Tuesday, September 10, 2019 2:56:25 PM

EXTERNAL EMAIL

EMLCFM 02283B USAS 09/10/19 14:56:23 A190280541-10B RNEW NORM POLY LREQ

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Ticket: A190280541 Rev: 10B Created: 09/10/19 14:55 User: DIRECT Chan: WEB

Work Start: 09/10/19 14:55 Legal Start: 09/10/19 14:55 Expires: 10/08/19 23:59

Response required: N Priority: 2

Excavator Information

Company: ARB, INC
Co Addr: 26000 COMMERCE CENTRE DRIVE
City : LAKE FOREST State: CA Zip: 92630
Created By: NICK TASICH Language: ENGLISH
Office Phone: 310-874-9612 SMS/Cell: 310-874-9612
Office Email: NTASICH@PRIM.COM

Site Contact: RUBEL MARTINEZ
Site Phone: 661-343-1481 Site SMS/Cell:
Site Email:

Excavation Area

State: CA County: ORANGE Place: STANTON
Zip:
Location: Address/Street: 10711 DALE AVE
: X/ST1: STANDUSTRIAL ST
:
: IN REAR OF ADDRESS
: ** CALL WITH ETA **

Delineated Method: WHITEPAINT

Work Type: MACHINE EXCAVATION, AUGERING, DRILLING, HAND EXCAVATION

Work For : WELLHEAD ELECTRIC

Permit: 16-AFC-01

Job/Work order:

1 Year: N Boring: Y Street/Sidewalk: Y Vacuum: Y Explosives: N

Lat/Long

Center Generated (NAD83): 33.808179/-117.985005 33.808186/-117.984017
: 33.806210/-117.984990 33.806217/-117.984002

Excavator Provided:

Map link:

https://newtin.digalert.org/newtinweb/map_tkt.nap?TRG=5Bz5BpCq1wzsuu5-i

Comments:

RESENDUPDATE ONLY-WORK CONT PER NICK TASICH--[WEBUBW 02/22/19 09:28]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[WEBUBW 03/21/19 09:14]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[WEBUBW 03/21/19 09:18]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[WEBUBW 04/16/19 08:45]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 05/07/2019 08:58 AM]

RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 05/29/2019 07:57 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 06/24/2019 06:53 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 07/19/2019 07:55 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 08/15/2019 11:48 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 09/10/2019 02:55 PM]

Members:

ATTDSOUTH AT&T DISTRIBUTION - PHONE	ATT DAMAGE PREVENTION HO	510-645-2929
GAR01 C/OF GARDEN GROVE-WATER	LES RUITEMSCHILD	714-290-8986
MWD05 METROPOLITAN WATER	CONTROL ROOM	714-577-5011
SCG28T SC GAS BREA -TRANSMISSION	ADAM JUAREZ	714-634-3196
SCG2XN SC GAS - GARDEN GROVE	LEAD DISPATCHER - CHUCK	800-603-7060
SCW2M GOLDEN STATE WATER - GARDENA	DAVID CATHCART	310-660-0320
SCW2P SO CAL WATER(GOLDEN ST WTR)	GILBERT ESTRADA	562-547-
7073xCELL		
UCHTRW_C5 UTIL/SPECTRUM GG - CATV	SPECTRUM DAMAGE ONLY	844-780-6054
USCE03 UTILIQUEST 4 SCE-NO OR COAST	SC EDISON PERSONNEL	800-611-1911
USCETT84SE UTIL 4 SCE TRNS TELECOM-FIB TCC		800-655-8844

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From: noreply@digalert.org
To: ntasich@prim.com
Subject: DigAlert Confirmation for Ticket A190280543-10B
Date: Tuesday, September 10, 2019 2:56:21 PM

EXTERNAL EMAIL

EMLCFM 02281B USAS 09/10/19 14:56:19 A190280543-10B RNEW NORM POLY LREQ

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Ticket: A190280543 Rev: 10B Created: 09/10/19 14:55 User: DIRECT Chan: WEB

Work Start: 09/10/19 14:55 Legal Start: 09/10/19 14:55 Expires: 10/08/19 23:59

Response required: N Priority: 2

Excavator Information

Company: BILL'S BACKHOE
Co Addr: 13203 BARLIN AVE
City : DOWNEY State: CA Zip: 90242
Created By: NICK TASICH Language: ENGLISH
Office Phone: 310-874-9612 SMS/Cell: 310-874-9612
Office Email: NTASICH@PRIM.COM

Site Contact: RUBEL MARTINEZ
Site Phone: 661-343-1481 Site SMS/Cell:
Site Email:

Excavation Area

State: CA County: ORANGE Place: STANTON
Zip:
Location: Address/Street: 10711 DALE AVE
: X/ST1: STANDUSTRIAL ST
:
: IN REAR OF ADDRESS
: ** CALL WITH ETA **

Delineated Method: WHITEPAINT

Work Type: MACHINE EXCAVATION, AUGERING, DRILLING, HAND EXCAVATION

Work For : WELLHEAD ELECTRIC

Permit: 16-AFC-01

Job/Work order:

1 Year: N Boring: Y Street/Sidewalk: Y Vacuum: Y Explosives: N

Lat/Long

Center Generated (NAD83): 33.808179/-117.985005 33.808186/-117.984017
: 33.806210/-117.984990 33.806217/-117.984002

Excavator Provided:

Map link:

https://newtin.digalert.org/newtinweb/map_tkt.nap?TRG=DBApHfIk7q3qDbN-Q

Comments:

RESENDUPDATE ONLY-WORK CONT PER NICK TASICH--[WEBUBW 02/22/19 09:28]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[WEBUBW 03/21/19 09:14]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[WEBUBW 03/21/19 09:18]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[WEBUBW 04/16/19 08:45]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 05/07/2019 08:58 AM]

RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 05/29/2019 07:57 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 06/24/2019 06:53 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 07/19/2019 07:55 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 08/15/2019 11:48 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 09/10/2019 02:55 PM]

Members:

ATTDSOUTH AT&T DISTRIBUTION - PHONE	ATT DAMAGE PREVENTION HO	510-645-2929
GAR01 C/OF GARDEN GROVE-WATER	LES RUITEMSCHILD	714-290-8986
MWD05 METROPOLITAN WATER	CONTROL ROOM	714-577-5011
SCG28T SC GAS BREA -TRANSMISSION	ADAM JUAREZ	714-634-3196
SCG2XN SC GAS - GARDEN GROVE	LEAD DISPATCHER - CHUCK	800-603-7060
SCW2M GOLDEN STATE WATER - GARDENA	DAVID CATHCART	310-660-0320
SCW2P SO CAL WATER(GOLDEN ST WTR)	GILBERT ESTRADA	562-547-
7073xCELL		
UCHTRW_C5 UTIL/SPECTRUM GG - CATV	SPECTRUM DAMAGE ONLY	844-780-6054
USCE03 UTILIQUEST 4 SCE-NO OR COAST	SC EDISON PERSONNEL	800-611-1911
USCETT84SE UTIL 4 SCE TRNS TELECOM-FIB TCC		800-655-8844

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From: noreply@digalert.org
To: ntasich@prim.com
Subject: DigAlert Confirmation for Ticket A190280551-10B
Date: Tuesday, September 10, 2019 2:56:23 PM

EXTERNAL EMAIL

EMLCFM 02282B USAS 09/10/19 14:56:21 A190280551-10B RNEW NORM POLY LREQ

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Ticket: A190280551 Rev: 10B Created: 09/10/19 14:55 User: DIRECT Chan: WEB

Work Start: 09/10/19 14:55 Legal Start: 09/10/19 14:55 Expires: 10/08/19 23:59

Response required: N Priority: 2

Excavator Information

Company: ORTIZ ENTERPRISE INC

Co Addr: 6 CUSHING #200

City : LAKE FOREST

State: CA Zip: 92618

Created By: NICK TASICH

Language: ENGLISH

Office Phone: 310-874-9612

SMS/Cell: 310-874-9612

Office Email: NTASICH@PRIM.COM

Site Contact: RUBEL MARTINEZ

Site Phone: 661-343-1481

Site SMS/Cell:

Site Email:

Excavation Area

State: CA County: ORANGE

Place: STANTON

Zip:

Location: Address/Street: 10711 DALE AVE

: X/ST1: STANDUSTRIAL ST

:

: IN REAR OF ADDRESS

: ** CALL WITH ETA **

Delineated Method: WHITEPAINT

Work Type: MACHINE EXCAVATION, AUGERING, DRILLING, HAND EXCAVATION

Work For : WELLHEAD ELECTRIC

Permit: 16-AFC-01

Job/Work order:

1 Year: N Boring: Y Street/Sidewalk: Y Vacuum: Y Explosives: N

Lat/Long

Center Generated (NAD83): 33.808179/-117.985005 33.808186/-117.984017

: 33.806210/-117.984990 33.806217/-117.984002

Excavator Provided:

Map link:

https://newtin.digalert.org/newtinweb/map_tkt.nap?TRG=DBApHfIk7q4nln9-e

Comments:

RESENDUPDATE ONLY-WORK CONT PER NICK TASICH--[WEBUBW 02/22/19 09:28]
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RENEW TICKET WORK CONTINUING PER NICK TASICH--[WEBUBW 03/21/19 09:18]
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RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 05/07/2019 08:58
AM]

RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 05/29/2019 07:57 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 06/24/2019 06:53 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 07/19/2019 07:55 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 08/15/2019 11:48 AM]
RENEW TICKET WORK CONTINUING PER NICK TASICH--[DIRECT 09/10/2019 02:55 PM]

Members:

ATTDSOUTH AT&T DISTRIBUTION - PHONE	ATT DAMAGE PREVENTION HO	510-645-2929
GAR01 C/OF GARDEN GROVE-WATER	LES RUITEMSCHILD	714-290-8986
MWD05 METROPOLITAN WATER	CONTROL ROOM	714-577-5011
SCG28T SC GAS BREA -TRANSMISSION	ADAM JUAREZ	714-634-3196
SCG2XN SC GAS - GARDEN GROVE	LEAD DISPATCHER - CHUCK	800-603-7060
SCW2M GOLDEN STATE WATER - GARDENA	DAVID CATHCART	310-660-0320
SCW2P SO CAL WATER(GOLDEN ST WTR)	GILBERT ESTRADA	562-547-
7073xCELL		
UCHTRW_C5 UTIL/SPECTRUM GG - CATV	SPECTRUM DAMAGE ONLY	844-780-6054
USCE03 UTILIQUEST 4 SCE-NO OR COAST	SC EDISON PERSONNEL	800-611-1911
USCETT84SE UTIL 4 SCE TRNS TELECOM-FIB TCC		800-655-8844

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Attachment 21 - COM-11 Reporting of Complaints, Notices, and Citations

SERC
COMPLAINT REPORT AND RESOLUTION LOG

Incident #	Incidents Occurred this Period	Resolution Actions Taken	Status of Unresolved Actions form Previous MCR's
01	Complaint about Track-out on Dale Ave.	<p>All construction equipment vehicle tires shall be inspected and washed as necessary to be cleaned free of dirt prior to entering Dale Ave.</p> <ol style="list-style-type: none"> 1. Additional gravel was added to the existing ramps at the tire washing/cleaning station 2. Additional laborers were assigned to the Dale Ave entrance when there is a risk of any track-out to scrape and sweep immediately. A Sweeping machine is being kept on location and be used as necessary to clean up all track-out. 3. The assigned laborers will also be sweeping the rumble plates when build-up occurs to maintain the efficiency of the plates. 4. Above and beyond, the contractor added another set of rumble plates and gravel at the Dale Ave. entrance. 	N/A
02	Noise Complaint	<p>SERC received a noise complaint at 9:33am on Friday, April 5, 2019. The complaint came from a Mr. Hill who lives at the Katella Mobile Home Estates located at 10800 Dale Ave, Stanton, CA. Mr. Hill complained about the use of a chainsaw at 3:10 am on Saturday morning (3/30/19) and hearing an air compressor and the hammering of nails at 3:25 am on Monday morning (4/1/19). Representatives from SERC spoke with Mr. Hill at 2:19pm on Friday April 5th to better understand his complaint.</p> <p>SERC investigated the incident with ARB and confirmed that there was no activity on the SERC site during these hours. The Noise Complaint Resolution Form (COC NOISE 2) was submitted to the CPM documenting the complaint.</p>	

Attachment 22 – MECH-1 CBO Inspection Approvals

INSPECTION RESULT

INSPECTION MADE: SERC_16-AFC-01_CTG LUBE OIL SKID PIERS_20190904

DATE / TIME: 20190904 @ 1:30 INSPECTOR: Mary Lee Knolle

☒ APPROVED

☐ AT RISK

☐ DISAPPROVED

☐ PHASE PASS

☐ REINSPECTION REQUIRED

SIGNATURE:

SERC_16-AFC-01
-- INSPECTED --
This inspection report was prepared in accordance with the 2014
California Building Code, California Building Standards Commission
and California Building Standards Code, and the California
Building Standards Commission's Building Standards Code
and the California Building Standards Commission's Building
Standards Code. The inspection was conducted on the date
indicated in the report. The inspection was conducted by
the inspector named in the report. The inspection was
conducted in accordance with the California Building
Standards Commission's Building Standards Code and the
California Building Standards Commission's Building
Standards Code.

Digitally signed by Mary
Lee Knolle
Date: 2019.09.05
11:16:30 -07'00'

DATE: 20190904

COMMENTS:

Per Plans; SF02-102, SF02-102-1, SF00-051

Checked forms, and rebar per details with all spacing and clearances within tolerances.

Cleanliness was addressed as well

No exceptions taken

INSPECTION RESULT

INSPECTION MADE: SERC_16-AFC-01_FUEL GAS COALESCING FILTER SKID FND_20190904

DATE / TIME: 20190904 @1:30 **INSPECTOR:** Mary Lee Knolle

☒ **APPROVED**

☐ **AT RISK**

☐ **DISAPPROVED**

☐ **PHASE PASS**

☐ **REINSPECTION REQUIRED**

SIGNATURE:

SERC_16-AFC-01
-- INSPECTED --
The undersigned hereby certifies that the inspection was conducted on the date indicated and that the work was inspected in accordance with the requirements of the California Building Code and the California Electrical Code. The undersigned is a duly Licensed Building Official in the State of California. No other person is authorized to sign this Certificate of Inspection. The undersigned is not responsible for the work of others. The undersigned is not responsible for the work of others.

Digitally signed by Mary
Lee Knolle
Date: 2019.09.05
11:22:04 -07'00'

DATE: 20190904

COMMENTS:

Per Plans and detail SF02-111, SF02-100, S00-001, S00-002, SF00-000, SF00-001, SF00-050, SF00-051

All spacing and clearances were within tolerances. Cleanliness as well.

Grounding installed

No exceptions taken

INSPECTION RESULT

INSPECTION MADE: SERC_16-AFC-01_PDM FND PIERS_20190904

DATE / TIME: 20190904 @12:30 INSPECTOR: Mary Lee Knolle

☒ APPROVED ☐ AT RISK
☐ DISAPPROVED ☐ PHASE PASS
☐ REINSPECTION REQUIRED

SIGNATURE:

SERC_16-AFC-01
-- INSPECTED --
This document is the property of NV5. It is to be used for the project only and is not to be distributed outside the project. It is to be stored in the NV5 system and is to be protected from unauthorized access. It is to be used for the project only and is not to be distributed outside the project. It is to be stored in the NV5 system and is to be protected from unauthorized access.

Digitally signed by Mary
Lee Knolle
Date: 2019.09.05
11:29:38 -07'00'

DATE: 20190904

COMMENTS:

All spacing and clearances were within tolerances, Per plans and details; SF02-114-1, SF02-114, SF02-100, S00-001, S00-002, SF00-000, SF00-001, SF00-050, SF00-051 cleanliness and forms acceptable
No exceptions taken

OFFICES NATIONWIDE

End Report