MARSH LANDING GENERATING STATION

MONTHLY COMPLIANCE REPORT #13

Report Period: September 2011

For Submittal to

California Energy Commission

Sacramento, California

08 – AFC – 3C

Monthly Compliance Report

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Marsh Landing Generating Station

Monthly Compliance Report

September 2011

1.0 Current Project Construction Status

The California Energy Commission Adoption Order 10-0825-03 was issued on August 25, 2010. This Monthly Compliance Report (MCR) covers the time period from September 1, 2011 through September 30, 2011.

Construction is 2.1% complete. Kiewit has driven 1101 piles (approximately 75.6 % of project total) as of September 30, 2011. All piles in power blocks 1and 2 have been driven; 58% of the piles in power blocks 3 and 4 have been driven.

Kiewit installed 391 feet of fire water line along the north perimeter of the power blocks. Kiewit started installing electrical duct bank in power blocks 1and 2.

Kiewit's subcontractor is 100% complete with installation of the raw water tank, waste water tank and RO permeate tank. They are in the process of hydro-testing the raw water and waste water tanks.

Kiewit engineering is 58.1 % complete. Major activities that are either in progress or complete include: CBO submittals to comply with CEC Conditions of Certification and the California Building Standards Code; major equipment (Siemens and Mitsubishi) vendor shop drawing review; piling, foundation and underground pipe and duct bank design; above ground pipe design; and electric interconnection design. Kiewit issued for review SCR and stack, SCR cooling air fans and unit auxiliary transformer foundation drawings. Kiewit issued for construction SCR cooling air fans piling, fuel gas heater piling and isophase bus area foundation drawings, and underground piping P&IDs.

Siemens continued engineering, procurement and manufacturing process related to gas turbine-generator equipment. Turbine rotors, generator rotors and generator bedplates are all on order. Two turbine rotor forgings have been received in Siemens' shop. Machining is in progress. All generator rotor forgings have been received. Machining is at least 50% complete on all four forgings. Winding has commenced on the first GSU. Kiewit shop inspections of major equipment have started. Current schedule shows first GSU ready to ship in late October, first turbine in late November, first generator in early January.

Mitsubishi continued engineering, procurement and manufacturing process related to SCR / Ammonia Systems. Engineering continued for the SCR and stack (detailed structural design), sound barriers, and tempering air fan system. Most SCR equipment and components are on order and material procurement is in progress.

In accordance with Condition of Certification BIO-2, On September 12, 2011 the DB submitted a request to reduce biological monitoring to biweekly inspections; CEC approved this request on September 26. Summary of biological resources monitoring activities for September 2011, including monitoring logs, is provided in the separate Biological Resources Report Subsections 2.04/2.06

In accordance with Conditions of Certification BIO-5 and BIO-6, mitigation measures implemented at the site during September included: ESA and silt fence installation/maintenance, wildlife pitfall management,

waste management, dust control measures vehicle speed limits and breeding bird monitoring. See separate Biological Resources Report Subsections 2.04-2.06 for details.

In accordance with Condition of Certification BIO-7, on August 3, 2011 the DB notified the CEC that bird nesting activity had ceased and requested that monitoring be reduced to two times per week until the end of the nesting season; CEC approved this request on August 3, 2011. There was no nesting activity at MLGS during the month of September. Details are presented in the Biological Resources Report Subsection 2.04/2.06

In accordance with Condition of Certification CUL-6, monitoring of ground-disturbing construction activities continued during September 2011. Daily reports were emailed to CEC stating that no cultural resources over 50 years of age were discovered. Summary of cultural resources monitoring activities for September 2011, including monitoring logs, is provided in the separate Cultural Resources Report Subsection 2.12

Paleontological monitoring continued during September 2011. Identifiable vertebrate fossils have been identified in samples recovered during pile augering. On September 20, 2011, the PRS submitted a sample processing protocol to the CEC; CEC approved the protocol on 9/22/11. Summary of paleo resources monitoring activities for September 2011, including monitoring logs, is provided in the separate Paleontological Resources Report Subsection 2.24.

Worker Environmental Awareness Program (WEAP) training sessions began in February, 2011. During the month of September, 21 people completed the training. As of the end of September, a total of 244 people have completed the environmental awareness training as required by Conditions of Certification BIO-4, CUL-5 and PAL-4. Copies of the WEAP training acknowledgement forms are included in Section 2.0, subsection 2.11

2.0 Required Documents Submitted with this Report

The following table lists the Conditions of Certification that require monthly input, and an indication to what if any information is included in this compliance report at the end of this section.

Condition of Certification	Description	Summary of Items Included	Subsection
AQ-SC3	Dust and Road Cleanliness issues	Fugitive Dust Control & Water Truck Log	2.01
AQ-SC5	Diesel-Fueled Engine Control	Summary of diesel fueled engine control measures	2.02
AQ-SC9	Combustion Turbine Commissioning Limitation	NA for reporting period	2.03
BIO-2	Biologist duties during mobilization, construction, etc.	MLGS Biological Resources Report	2.04
BIO-4	WEAP Trained individual' documentation	WEAP Training Acknowledgement Forms, including number of persons who completed the training.	2.05
BIO-5	BRMIMP Implementation Measures	MLGS Biological Resources Report	2.06
BIO-6	Wildlife Mortality Report	MLGS Biological Resources Report	2.06
BIO-7	Monitoring of nesting activity	MLGS Biological Resources Report	2.06
CIVIL-1	Statement certifying that the CIVIL-1 documents have been approved by the CBO	NA	2.08
CIVIL-3	A list of non-conformance reports for the site-grading that requires a permit	NA for reporting period	2.09
CIVIL-4	Copy of the CBO's approval of the final grading plans and completion	NA for reporting period	2.10
CUL-5	WEAP training documentation	WEAP Training Acknowledgement Forms, including number of persons who completed the training.	2.11

CUL-6	Summary of cultural resources monitoring activities	MLGS Cultural Resources Report	2.12
ELEC-1	Copy of signed and stamped approval by electrical engineer that LORS were complied with for electrical design	Copy of signed and stamped approval by electrical engineer that LORS were complied with for electrical design	2.13
GEN-2	Report schedule changes/updates to the facility design submittals	Facility design submittal and change log	2.14
GEN-3	Copy of CBO payments	Copy of CBO Payments	2.15
GEN-4	Copy of CBO approval of the RE and other delegated engineers	NA for this reporting period	2.16
GEN-5	Copy of the CBO's approval of the responsible Engineers	NA for this reporting period	2.17
GEN-6	Copy of all CBO approvals of qualifications of special inspectors	Copy of all CBO approvals	2.18
GEN-7	Copy of CBO approval of any design or construction discrepancies after their approval	NA for reporting period	2.19
GEN-8	Notification of the completion of any work	NA for reporting period	2.20
MECH-1	Copy of CBO transmittal letters requesting review and approval of major plumbing or piping system final plans, specifications, and calculations. Include subsequent approvals by the CBO.	Copy of transmittal letters	2.21
MECH-2	Copies of transmittal letters from CBO and/or Cal-OSHA inspections approving documentation regarding pressure vessel design, fabrication, and installation and the conformation of all appropriate ASME or other codes.	NA for reporting period	2.22
PAL-4	WEAP training documentation	WEAP Training Acknowledgement Forms, including number of persons who completed training	2.23

PAL-5	Summary of paleontological monitoring activities	MLGS Paleontological Resources Report	2.24
SOIL & WATER-2	Construction analysis of COC effectiveness	Analysis of Effectiveness	2.25
STRUC-1	Copy of CBO statement the proposed structural plans, specifications, and calculations have been approved and comply with the requirements set forth in the applicable engineering LORS	Copy of CBO statement	2.26
STRUC-3	Notification that the CBO has approved revisions to plans as required by the CBC	NA for reporting period	2.27
STRUC-4	Copies of the CBO approvals of plan checks and inspection checks.	NA for reporting period	2.28
TSE-1	Provide schedule updates for required submittals	Included in the Facility design submittal and change log (GEN-2)	2.29
TSE-2	CBO Approval of the responsible project engineers	NA for reporting period	2.30
TSE-4	Copy of signed and stamped approval by electrical engineer that LORS were complied with for switchyard, and outlet line and termination.	NA for reporting period	2.31
WASTE-1	Asbestos management report	Asbestos Management Report	2.32
WORKER SAFETY-3	Construction Safety Supervisor monthly safety inspection report	Monthly Safety Inspection Report	2.33
TSE-5			2.34

Marsh Landing Generating Station

08-AFC-3C

AQ-SC3

Air Quality - Fugitive Dust Control

1. (AQ-SC3a) All unpaved roads and disturbed areas in the project and linear construction sites shall be observed daily (M-F) during the construction process for dust mitigation purposes when precipitation does not occur. A dated record of the observation shall be taken for inclusion in the monthly compliance report (MCR). Areas where additional mitigation measures are needed shall be noted.

   Sept 1, 2011 No dust observed. Water Truck Active across site.

   Sept. 2, 2011 Slight dust observed in vehicle areas. Water Truck active.

   Sept. 6, 2011 No dust observed. Water truck doing well keeping things moist.

   Sept. 7, 2011 Slight dust observed in the immediate area of vehicles. Water truck making rounds.

   Sept. 8, 2011 Slight dust when breeze is heavy. Water Truck trying to keep everything moist.

   Sept. 9, 2011 No significant dust observed. Water truck active.

   Sept. 12, 2011 Some dust visible in areas on the power block when vehicles drive by. Water Truck dispatched to quell the situation. (Water truck active in other location.)

   Sept. 13, 2011 No dust was observed in the power block. Small amount of dust in the parking areas. Water Truck active.

   Sept. 14, 2011 Breezy, but no dust was observed on the power block. Water Truck making the rounds keeping things damp.

   Sept. 15, 2011 No dust observed. Water Truck actively pursuing dry soil.

   Sept. 19, 2011 Slight dust in some areas. Water Truck making rounds.

Sept. 20, 2011 No dust observed. Site well moistened. Two trucks making rounds.

Sept. 21, 2011 Slight dust in parking area. Water truck making the rounds.

Sept. 22, 2011 No dust observed. Site very well watered.

Sept 23, 2011 No dust. Site is very well watered and covered.

Sept. 26, 2011 Site is well watered. Slight dust from edges of some roadways.

Sept. 27, 2011 Water trucks active and no dust observed.

Sept. 28, 2011 No dust. Water Truck active.

Sept. 29, 2011 Slight dust. Water Truck catching up.

Sept. 30, 2011 With the wind gusting there was a slight amount of dust in certain locations. Most of the site was damp due to the efforts of the water truck. The truck will be rerouted to include the areas with dust.

2. (AQ-SC3b) Vehicles will be observed on a daily basis (M-F) for adherence to the 15 miles per hour limit within the construction site. Any excedence observed will be so noted with the actions taken to rectify the situation recorded. All records will be part of the monthly compliance report.

Sept 1, 2011 - Vehicles were all observed to be within the 15 mph limit.

Sept 2, 2011 - Vehicles observed to be traveling observant of limits.

Sept. 6, 2011 – All vehicles slow and observant.

Sept. 7, 2011 – Some vehicles (delivery?) seem to be exceeding the builders speed limit of 10 mph which is less than the required 15 mph, but will be addressed.

Sept. 8, 2011 – All vehicles observed to be velocity compliant.

Sept. 9, 2011 – Did not observe any excessive speed throughout the day.

Sept. 12, 2011 – All vehicles were slow and deliberate.

Sept. 13, 2011 – No vehicles observed travelling in excess of 15 mph.

Sept. 14, 2011 – All vehicles were observing the 15 mph limit.

Sept. 15, 2011 – All vehicles were slow and considerate.

Sept. 19, 2011 – All vehicles were observing the site speed limits.

Sept. 20, 2011 – Vehicles all obeying posted speed limits.

Sept. 21, 2011 – All vehicles observing speed limits.

Sept. 22, 2011 – No vehicles observed exceeding the mandated limits.

Sept. 23, 2011 – Vehicles were all slow and polite.

Sept. 26, 2011 – All vehicles were observed to be obeying the posted speed limits.

Sept. 27, 2011 – No vehicles were observed exceeding speed limits.

Sept. 28, 2011 – Vehicles maintaining posted speed limits. Slow and courteous.

Sept. 29, 2011 – Vehicles slow and observant.

Sept. 30, 2011 – All vehicles were within the speed limits.

3. (AQ-SC3d) Signs shall be posted at each construction site entrance indicating that all vehicle tires are to be inspected and washed as necessary prior to entering paved roadways. The existence of the signs will be verified weekly. Paved roadways will be inspected weekly for verification of the effectiveness of the program with results included in the MCR.

Sept. 7, 2011 – Water Tire washing station available on used access road.

Sept. 15, 2011 – Tire washing station in position on access road.

Sept. 23, 2011 – Tire washing station available for use on the access road.

Sept. 30, 2011 – Tire washing station is ready for use as vehicles exit the site.

4. (AQ-SC3e) The gravel ramps at the tire washing/cleaning stations will be observed weekly for length and general condition. Observations will be included in the MCR.

Sept 6, 2011 - Tire cleaning ramps are in place (24 feet) and in good condition.

Sept. 15, 2011 – Tire cleaning ramps are in position.

Sept. 26, 2011 – Tire cleaning ramps are in position and functioning.

5. (AQ-SC3f) All unpaved exits from the construction site shall be graveled or otherwise treated to prevent track-out to public roadways. Observation of the effectiveness and condition of the measures taken shall be recorded weekly.

   Sept., 2011 - All exits between the construction site and public roadways are paved.

6. (AQ-SC3g) Fencing or other barriers shall be erected to prevent vehicles from entering the construction site through any access other than the graveled or treated entrance roadways. The status and effectiveness of the fencing/barriers shall be noted weekly for inclusion in the monthly compliance report.

   Sept 6, 2011 – Currently the installation of a duct bank has traffic rerouted to the entrance gate of the existing GenOn generating facility. Due to the dry summer conditions, the length of this paved access road, diligence watching for any tracking, and temporary nature of this detour, the impact to tracking from the site has been less than significant.

   Sept. 14, 2011 Traffic will be using the CCGS entrance gate for the next week. No tracking is evident onto public streets.

   Sept. 19, 2011 Traffic currently still using the main CCGS entrance. No hint of tracking onto the public streets.

   Sept. 26, 2011 Fencing and barriers are in good condition and functioning to keep the site traffic correctly routed.

7. (AQ-SC3h) Construction areas adjacent to all paved roadways shall be reviewed weekly for adherence to the measures as specified in the Storm Water Pollution Prevention Plan. Evaluation notes from the weekly audits will be included in the monthly compliance report.

   Sept 2, 2011 - Silt fencing, straw wattles, and sediment traps all in good condition.

   Sept. 6, 2011 – Silt fencing, wattles, sediment traps in good condition.

   Sept. 14, 2011 – Silt fencing is being maintained. Wattles and sediment traps are in good condition.

   Sept. 19, 2011 – All erosion controls are in place and very well maintained.

   Sept. 26, 2011 – Erosion controls (Silt fencing, straw wattles, sediment traps) are in place and well maintained.

8. (AQ-SC3i) A water truck log shall be maintained designating the sweeping or washing of paved roads within the construction site. The record will be included in the monthly compliance report.

9. (AQ-SC3j) The first 500 feet of public roadway exiting from the construction site shall be observed on a daily basis (M-F) during the construction process for dirt or other debris. A dated record of the observation shall be taken for inclusion in the monthly compliance report (MCR). Sweeping or washing will be recorded in the water truck log for inclusion in the monthly compliance report.

   Sept. 1, 2011 – Dry conditions with no tracking onto public streets.

   Sept. 2, 2011 – Tracking is not present onto public streets.

   Sept. 6, 2011 – No tracking leaving the MLGS construction site.

   Sept. 7, 2011 – No debris or tracking on Wilbur Ave from the construction site.

   Sept. 8, 2011 – To Tracking onto public streets.

   Sept 9, 2011 – Dry conditions and no tracking occurring.

   Sept. 12, 2011 – No tracking onto public streets.

   Sept 13, 2011 – Roads are clear of dirt and debris from the construction site.

   Sept. 14, 2011 – There is no tracking from the construction site onto public streets.

   Sept. 15, 2011 – There is no tracking onto public streets.

   Sept 19, 2011 – Public streets are absent any tracking from the site.

   Sept. 20, 2011 – Clean access onto Wilbur Ave.

   Sept. 21, 2011 – Wilbur Ave access is clean.

   Sept. 22, 2011 – No tracking onto the public frontage road.

   Sept. 23, 2011 – Wilbur Ave is free of tracking.

   Sept. 26, 2011 – No tracking onto Wilbur Ave from the construction site.

   Sept. 27, 2011 - No Tracking onto Wilbur from the construction entrance.

   Sept. 28, 2011 – Wilbur Ave. is free of tracking.

Sept. 29, 2011 – Wilbur does not show any signs of tracking.

Sept. 30, 2011 – There was no tracking from the access road onto public streets.

(AQ-SC3k) A record of all storage piles and disturbed areas shall be noted for inactivity that exceeds 10 days in length. Any disturbed areas or piles that have or are expected to exceed the 10 day rule will be treated with appropriate dust suppressant compounds. All areas that are treated with dust suppressant compounds will be noted for inclusion in the monthly compliance report.

Sept 2, 2011 All stock piles inactive for 10 or more days have been tarped.

Sept. 7, 2011 Stock piles are tarped. Some locations on the power block have been treated with dust suppressant compounds.

Sept. 14, 2011 All undisturbed stock piles are tarped. Suppressant compounds have been used in some locations around the power block.

Sept. 20, 2011 – Inactive stock piles are Tarped. There is no dust being generated from stock piles.

Sept. 26, 2011 – Stock piles (Inactive) are tarped.

10. (AQ-SC3l) The construction contractor will include with his bid proposal packages the requirement that all vehicles that are used to transport solid bulk material on public roadways and that have the potential to cause visible emissions shall be provided with a cover, or the materials shall be sufficiently wetted and loaded onto the trucks to provide at least two feet of freeboard. Trucks carrying solid bulk material arriving at the construction site will be inspected for adherence to this requirement.

11. (AQ-SC3m) Wind erosion techniques shall be used on all construction areas that may be disturbed. A record of wind erosion techniques employed for a given month shall be included in the monthly compliance report.

Techniques employed:

Roadways kept clean.

Watering using various methods. (Truck and hose.)

Tarps on stock piles

Some use of Dust Suppressant compounds

Sweeper Brush Clean up of paved roads.

Kiewit

MARSH LANDING

07320.9

Water Truck Log

Date: 9-28-11

Start Time: 7:00 Meter Reading: 073209

End Time: 5:30 Meter Reading: 073951

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 0 times

2. Craft Parking Area: 8 times

3. Laydown area: 10 times

4. Work Area: Grading 10 times

5. Work Area: Pile Drivers, 13 times

6. Wilbur Ave Access: 0 times

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-30-11

Start Time: 7:00 Meter Reading: 074497

End Time: 3:30 Meter Reading: _____

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 0 times

2. Craft Parking Area: 4 times

3. Laydown area: 6 times

4. Work Area: Grading 5 times

5. Work Area: Pile Drivers, 6 times

6. Wilbur Ave Access: 1 times

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-29-11

Start Time: 7:00 Meter Reading: 073959

End Time: 5:30 Meter Reading: 074497

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 0 times

2. Craft Parking Area: 5 times

3. Laydown area: 7 times

4. Work Area: Grading 8 times

5. Work Area: PILE DRIVERS, 11 times

6. Wilbur Ave Access: 0 times

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-27-11

Start Time: 7:00 Meter Reading: 072384

End Time: 5:30 Meter Reading: 073209

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 0 times

2. Craft Parking Area: 6 times

3. Laydown area: 8 times

4. Work Area: Grading 6 times

5. Work Area: Pile Drivers, 7 times

6. Wilbur Ave Access: 0 times

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-24-11

Start Time: 7:00 Meter Reading: 0717200

End Time: 5:30 Meter Reading: 072384

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 0 times

2. Craft Parking Area: 4 times

3. Laydown area: 4 times

4. Work Area: Grading 6 times

5. Work Area: PILE DRIVERS, 7 times

6. Wilbur Ave Access: 0 times

BACK FILL - MOST OF DAY !

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-23-11

Start Time: 7:00 Meter Reading: 071027

End Time: 5:30 Meter Reading: 071720

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 1 times

2. Craft Parking Area: 5 times

3. Laydown area: 5 times

4. Work Area: Grading 9 times

5. Work Area: Pile Drivers, 10 times

6. Wilbur Ave Access: No Access times 1

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-22-11

Start Time: 7:00 Meter Reading: 070423

End Time: 5:30 Meter Reading: 071027

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 0 times

2. Craft Parking Area: 2 times

3. Laydown area: 1 times

4. Work Area: Grading 1 times

5. Work Area: Pile Drivers, 2 times

6. Wilbur Ave Access: No Access times

Back Sill most of day: Pile Area

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-21-11

Start Time: 7:00 Meter Reading: 069884

End Time: 3:30 Meter Reading: 070423

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 1 times

2. Craft Parking Area: 4 times

3. Laydown area: 6 times

4. Work Area: Grading 7 times

5. Work Area: Pile Drivers, 9 times

6. Wilbur Ave Access: No Access times

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-20-11

Start Time: 7:00AM Meter Reading: 069371

End Time: 6:00pm Meter Reading: 069884

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 1 times

2. Craft Parking Area: 4 times

3. Laydown area: 7 times

4. Work Area: Grading 7 times

5. Work Area: Piling, 9 times

6. Wilbur Ave Access: No Access times

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-19-11

Start Time: 7:00 Meter Reading: 068542

End Time: 3:30 (4:30) Meter Reading: 069371

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 0 times

2. Craft Parking Area: 4 times

3. Laydown area: 2 times

4. Work Area: Grading 0 times

5. Work Area: Pile Drivers 4 times

6. Wilbur Ave Access: No Access times

2 Water Trucks

10 Loads Each = 20 Loads

Kiewit

MARSH LANDING

2 trucks

Water Truck Log

Date: 9-13-11

Start Time: 7:00 Meter Reading: 066440

End Time: 5:30 Meter Reading: 066746

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 1 times

2. Craft Parking Area: 1 times

3. Laydown area: 2 times

4. Work Area: Grading 7 times

5. Work Area: PILE DRIVERS, 10 times

6. Wilbur Ave Access: No Access times

TANK-5- 9 + times

Kiewit

MARSH LANDING

2 trucks

Water Truck Log

Date: 9-16-11

Start Time: 7:00 Meter Reading: 067737

End Time: _____ Meter Reading: 068307

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 2 times

2. Craft Parking Area: 2 times

3. Laydown area: 1 times

4. Work Area: Grading 6 times

5. Work Area: Pile Drivers, 8 times

6. Wilbur Ave Access: No Access times

Back fill & Pre Mix 12 Times

Kiewit

MARSH LANDING

2 trucks

Water Truck Log

Date: 9-15-11

Start Time: 7:00 Meter Reading: 067019

End Time: 6:30 Meter Reading: 067727

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 1 times

2. Craft Parking Area: 1 times

3. Laydown area: 0 times

4. Work Area: Grading 2 times

5. Work Area: PILE DRIVERS, 4 times

6. Wilbur Ave Access: NO ACCESS times

BACK FILL & PRE MIX
TANK - 5 - 14 + TIMES

Kiewit

MARSH LANDING

Water Truck Log

Date: 9/14/11

Start Time: 8:00 AM Meter Reading: 6674.5

End Time: 6:30 PM Meter Reading: 06701.9

Total Gallons: 27.4

Areas: 1. Paved access road from MLGS to Wilbur access: _____ times

2. Craft Parking Area: _____ times

3. Laydown area: _____ times

4. Work Area: Grading _____ times

5. Work Area: _____, _____ times

6. Wilbur Ave Access: _____ times

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-12-11

Start Time: 7:00 Meter Reading: 066154

End Time: 5:30 Meter Reading: 066442

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: _____ times

2. Craft Parking Area: 0 times

3. Laydown area: 2 times

4. Work Area: Grading 8 times

5. Work Area: PILE DRIVERS, 9 times

6. Wilbur Ave Access: NO ACCESS times

TANK - 5 - 6 TIMES

CLEAR CREAK - 1 TIME

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-9-11

Start Time: 7:00 Meter Reading: 065772

End Time: 5:00 Meter Reading: 066153

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 2 times

2. Craft Parking Area: 1 times

3. Laydown area: 5 times

4. Work Area: Grading 8 times

5. Work Area: Pipe Sitters, 10 times

6. Wilbur Ave Access: No Access times

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-8-11

Start Time: 7:00 Meter Reading: 065470

End Time: 5:00 Meter Reading: 065762

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 2 times

2. Craft Parking Area: 3 times

3. Laydown area: 4 times

4. Work Area: Grading 5 times

5. Work Area: Pile Drivers 7 times

6. Wilbur Ave Access: No Access times

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-7-11

Start Time: 7:00 Meter Reading: 065112

End Time: 4:00 Meter Reading: 065470

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 1 times

2. Craft Parking Area: 3 times

3. Laydown area: 1 times

4. Work Area: Grading 7 times

5. Work Area: PILE DRIVERS, 10 times

6. Wilbur Ave Access: NO ACCESS times

BACK FILL - 6

PIPE FITTERS - 1

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-6-11

Start Time: 7:00 Meter Reading: 064705

End Time: 3:30 Meter Reading: 065112

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 1 times

2. Craft Parking Area: 3 times

3. Laydown area: 1 times

4. Work Area: Grading 4 times

5. Work Area: Pile Drivers, 6 times

6. Wilbur Ave Access: No Access times

Back fill - 5 times

Pipe fitters - 2 Times

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-2-11

Start Time: 7:00 Meter Reading: 064453

End Time: 12:00 Meter Reading: 064705

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 1 times

2. Craft Parking Area: 3 times

3. Laydown area: 4 times

4. Work Area: Grading 7 times

5. Work Area: PIPE DRIVERS 8 times

6. Wilbur Ave Access: NO ACCESS times

Kiewit

MARSH LANDING

Water Truck Log

Date: 9-1-11

Start Time: 7:00 Meter Reading: 063962

End Time: 5:30 Meter Reading: 064457

Total Gallons: _____

Areas: 1. Paved access road from MLGS to Wilbur access: 1 times

2. Craft Parking Area: 6 times

3. Laydown area: 4 times

4. Work Area: Grading 10 times

5. Work Area: Pile Drivers, 14 times

6. Wilbur Ave Access: No Access times

Date	Equipment #	Type	Model or S/N	Engine Family	EIN #	< 6 Days on Site	< 50 HP	Engine TIER	TIER Record	Owner	Maint Letter/Rcrds On File	Days Expected on Site	Date Off Site
2/15/2011	113485	JD Excavator Deere	350D	8JDXL09.102	PW8N94			3	(AC)	United Rental	X	60	4/22/2011
2/15/2011	Springline	25 KVA	25KW	Whisper Watt	N/A		X					60	5/5/2011
2/15/2011	HF08032	Hyster Forklift	210	7CEXL0409AAC	PY5K94			3	(AB)	Pape	X	45	5/5/2011
2/15/2011	48-0716	Gehl Extendable Fork Lift	DL12-40	8JDXL06.8105	TJ9W45			3	(AA)	PKS	X	750	
2/16/2011	1125672	JD Excavator Deere	350D	7HDXK09.0102	GT8F58			3	(AD)	United Rental	X	60	4/22/2011
2/18/2011	1126861	Light Plant	MQ		N/A		X			United Rental	X	750	3/4/2011
2/18/2011	20-2234	IR Compressor	P-185		N/A		X			PKS		750	
2/25/2011	1162849	Bobcat	T190	AKBXL02.6EAD	6N6C98			4	(AG)	United Rental	X	28	3/18/2011
2/25/2011	1169832	Extendable Forklift	JLG G12-55A	ACEXL0275AAG	ME8R55			3	(AE)	United Rental	X	60	3/23/2011
3/1/2011	504-977271	Deere Backhoe	710	7JDXL06.8041	CDGE85			3	(AF)	United Rental	X	30	3/29/2011
3/1/2011	516-736599	25 KW GEN	25KW	AKBXL026EAD 7106595	N/A		X			United Rental	X	60	4/15/2011
3/2/2011		Terex Crusher		7CPXL08.8ESK	D06B94			3	(AH)	Power Screen	X	60	4/20/2011
3/8/2011	54226	Excavator	X350LCH	75ZXL07.8HXB	PF6T33			3	(AJ)	Mecon	X	60	3/18/2011
3/10/2011		JD Skip Loader	210LE	4JDXL04.5025	HL8F77			2	(AK)	United Rental	X	14	3/18/2011
3/10/2011	9509806016	Roller	IR 5D-70	5CEXL0275AAC	FG4A98			2	(AL)	Hertz	X	14	3/18/2011
3/10/2011		Sweeper			TU6G86		X			PKS		750	3/24/2011
3/10/2011		Mechanical Van Generator			N/A		X			PKS		750	
3/23/2011	1016088	JLG Extendable Forklift		7CEXL0275	DD5M55			3	(AM)	United Rental	X	30	4/26/2011
3/23/2011		Excavator		7SZXL05.21XA	MX3J97			3	(AN)	Mecom	X	30	4/26/2011
3/23/2011	2703678	John Deere 710 Backhoe	JD710	8JDXL06.8041	HS8U59			3	(AO)	Pape	X	750	
3/24/2011	1178596	Manlift	600AJ		CG9C99		X	(4)		United Rental	X	30	4/14/2011
3/24/2011	28-0316	Roller Broom			YN6S97		X			PKS		750	
3/25/2011	1179436	Loader	JD 644	AJDXL06.8115	JL7U58			3	(AP)	United Rental	X	30	4/18/2011

Date	Equipment #	Type	Model or S/N	Engine Family	EIN #	< 6 Days on Site	< 50 HP	Engine TIER	TIER Record	Owner	Maint Letter/Rcrds On File	Days Expected on Site	Date Off Site
3/29/2011	10-9901	Excavator		8SZXL03.0JTA	SY8V36			3	(AQ)	United Rental	X	30	4/26/2011
4/7/2011	#NM26740	Tack Loader	Cat 973	7CPXL08.8ESK				3	(AR)	Cresco	X	14	4/19/2011
4/7/2011	5-9901	Bulldozer (D9)		ACPXL18.1ESK	EM8V93			3	(AT)	Cresco	X	30	5/10/2011
4/7/2011	8-9901	Blade		8CPXL11.1ESK	LM3G86			3	(AS)	HOLT	X	120	6/20/2011
4/7/2011	8-9901	Blade		8CPXL11.1ESK	LM3G86			3	(AS)	HOLT	X	120	6/20/2011
4/7/2011	11-1509	Compactor		7CPXL15.2ESK				3	(AU)	PKS	X	180	9/16/2011
4/7/2011	4-3276	Back Trailer					X			PKS	X	180	
4/8/2011	549-26-8005	Generator	MultiquipDCA300ss	8KLXL11.0D06				3	(AV)	Hertz	X	60	8/15/2011
4/11/2011	461	CME75 Drill Rig	Cummins			X				Layne		4	4/14/2011
4/11/2011	Backhoe	825 Case				X				Layne		4	4/14/2011
4/15/2011		Excavator	325DL	MC9H37		X						5	4/19/2011
4/15/2011	12-9903	Scrapper	s/n CEH00423	4CPXL18.0HSK	SN586			2	(AZ)	HOLT	X	60	5/10/2011
4/15/2011	12-9904	Scrapper	s/n CEH00424	4CPXL18.OHSK	XD8X57			2	(BA)	HOLT	X	60	5/10/2011
4/15/2011	12-9901	Scrapper	s/n DFJ00228	5DOXK18.1ESK	BE8S55			3	(AX)	HOLT	X	60	5/19/2011
4/15/2011	12-9902	Scrapper	s/n DFJ000229	5CPXL18.1ESK	JF3W87			3	(AY)	HOLT	X	60	5/19/2011
4/15/2011	10-9902	Excavator	s/n PJW01076	6CPXL12.5ESK	KD7E86			3	(AW)	HOLT	X	90	7/14/2011
4/18/2011	11-9902	Roller	NM28923	APKXL06.6PJ2	HH6H89			3	(BB)	Cresco	X	60	6/20/2011
4/21/2011	812036	JD Skip Loader	210LE	4JDXL04.5025	EC5U96			2	(BC)	United Rental	X	60	5/5/2011
5/9/2011	435121	Excavator	TB180FR		RE3K34	X				United Rental		5	5/13/2011
5/10/2011	NM28692	CAT Bulldozer	D6KXL	8PKXL06.6PJ2	TU6V38			3	(BD)	PKS	X	365	
5/11/2011	1202223	4 yard wheel loader	Case 821F 4	BVEXL06.7SCA	RA4H99			4	(BE)	United Rental	X	60	6/27/2011
5/16/2011	1113618	John Deere 135D Excavator		8SZXL03.DJTA	SY8V36			3	(BF)	United Rental	X	60	7/7/2011
5/17/2011	7378886	Manlift				X				United Rental		5	5/24/2011
5/17/2011	1198654	Forklift			LL3D35	X				United Rental		5	5/24/2011
5/17/2011	1197083	Takeuchi Excavator	TB-180	AYDXL3.32M4N	TA7N35			4	(BG)	United Rental	X	60	7/7/2011
5/19/2011	CB-224E	Compactor			NG5C97	X				Vintage Paving		3	5/20/2011
5/19/2011	R0038	Compactor			TY6A55	X				Vintage Paving		3	5/20/2011
5/19/2011	006	Skip Loader	210 C		MC4544	X				Vintage Paving		3	5/20/2011
5/23/2011	6-9904	Skip Loader	570 MX3		FR4G57	X				United Rental		5	5/27/2011
5/23/2011	966H	CAT Loader		ACPXL11.1ESK	SG3G75			3	(BH)	PKS	X	700	
6/1/2011	1049	Crane	Manitowoc 4000	9CEXL00661AAF	EW9F88			3	(BI)	Foundation Inc	X	90	

Date	Equipment #	Type	Model or S/N	Engine Family	EIN #	< 6 Days on Site	< 50 HP	Engine TIER	TIER Record	Owner	Maint Letter/Rcrds On File	Days Expected on Site	Date Off Site
6/1/2011	1082	Pettibone 304A	Super 30 Model 304A	7CEXL050AAE	ML8T58			3	(BJ)	Foundation Inc	X	90	
6/8/2011	6104	6104 HPSI Power Pack	JSC03174	7CPXL08.8ESK	141362			3	(BK)	Foundation Inc	X	90	
6/10/2011	EX200	Excavator	Cat321D	8MVXL06.4FF	YL7X44			3	(BL)	United Rental	X	90	7/1/2011
6/10/2011	#124755123	Backhoe	420	8PKXL04.4NH1	HH6U56			3	(BM)	Cresco	X	90	7/15/2011
6/14/2011	22-9906	Generator	DCA-25SS1U2				X			United Rental		21	7/13/2011
6/14/2011	549-26-0011	Generator	22-9904	ACEXL0540AAB				3	(BN)	Hertz		60	8/15/2011
6/26/2011	966-H	CAD Loader			JP9V45	X				Peterson		5	7/6/2011
7/7/2011	NMZ6432	Excavator	CAT 325D	6CPXL07.2ESL	FE9M98			3	(BO)	Cresco	X	60	7/15/2011
7/7/2011		Lincoln 300 Welder	768-30-6248-HPS				X			Hertz		60	9/1/2011
7/8/2011		Manlift			DVSF74	X				United Rental		5	7/10/2011
7/8/2011	1005	Crane			MT6B87			3	(BP)	Foundation Inc	X	60	
7/8/2011	6017	Power Pack						3	(BQ)	Foundation Inc	X	60	
7/8/2011		Steam Cleaner					X			PKS		700	
7/12/2011	1068	Pettibone	Super 30 Forklift	9CEXLO505AAE	LP8G94			3	(BR)	Foundation Inc	X	90	
7/12/2011	11-9904	Rollar CAT CS56	NM2895	AOJXK06.6PJ2				3	(BS)	Cresco	X	30	
7/12/2011	10-9903	CAT 314D Excavator	CRS16763	BMVXL04.2CCC	RY7G54			3	(BT)	HOLT	X	30	
7/13/2011	1184-4018	Excavator 315C	NM26034		SA3E75	X				Cresco		5	7/18/2011
7/15/2011	124755123	Backhoe	315 C	8PKXL04.4NH1	EV9U66			3	(BU)	Cresco	X	60	7/19/2011
7/15/2011	BW123PDH-3	Roller			EJ4E89	X				United Rental		5	7/19/2011
7/15/2011	006-18-5879	Ingersol Rand R185	Compressor				X			Hertz		60	
7/25/2011	22-940	Generator	609-815340		N/A		X			United Rental		45	
8/2/2011	1196536	Extended Fork Lift		BJDXL06.8117	XV7L67			3	(BU)	United Rental	X	60	
8/5/2011	1125638	Bobcat Fork Lift			DB5M34		X			United Rental		60	
8/5/2011		Excavator				X						5	8/10/2011
8/8/2011	10-3073	Excavator	CAT 328D	ACPXL07.2ESL	DW6P79			3	(BV)	PKS	X	600	
8/9/2011	1065766	Manlift	SkyJack		XD7W34		X			United Rental		30	
8/24/2011	21-3076	Lincoln Welder	Commander 500				X			PKS		600	
8/24/2011	21-2654	Lincoln Welder	Commander 500				X			PKS		600	
8/24/2011	21-2669	Lincoln Welder	Commander 500				X			PKS		600	
9/7/2011	37-2141	Loader	Volvo L110E	6DZXL07.1053	PV4B63			3	(BW)	PKS	X	365	
9/7/2011	10-3093	Excavator	CAT 345E	BCPXL12.5HPA	NR5E45			3	(BX)	PKS	X	365	
9/7/2011	37-9902	Skid Steer		AKBXL03.3CAD	GV9B54			4I	(BY)	UR	X	30	9/19/2011

Date	Equipment #	Type	Model or S/N	Engine Family	EIN #	< 6 Days on Site	< 50 HP	Engine TIER	TIER Record	Owner	Maint Letter/Rcrds On File	Days Expected on Site	Date Off Site
9/7/2011	37-9901	Skid Steer		AKBL02.6EAD	RN6C98			4I	(BZ)	UR	X	30	9/19/2011
9/7/2011	10-9478	Excavator	Volvo	ADZXL04.1076	MN7V55			3	(CA)	PKS	X	365	
9/13/2011	15-3301	Crane	GR-750Xl	AMFTL07.5M6A	JY8J98			3	(CB)	PKS	X	560	
9/13/2011	6-9905	Skip Loader	570 MXT	BNHXL04.5DTD	RF4G57			3	(CD)	United Rental	X	21	
9/14/2011	48-0839	Xtreme Forklift	XR1255	BPKXL04.4NJ1	LA4N78			3	(CC)	PKS	X	560	
9/19/2011	10-9904	Excavator	NM28969	AMVXL02.5FFF	GR3G47			4I	(CE)	Cresco	X	30	
9/19/2011	6-	Skip Loader	JD210LJ	AJDXL06.8106	M58V33			3	(CF)	PKS	X	560	
9/21/2011	10-3094	Excavator	CAT 314D	BMVXL04.2CCC	HH6D79			3	(CG)	PKS	X	560	
9/21/2011	No. 412	Fussion Machine	McElroy				X			PKS		560	
9/23/2011	11-9905	Roller	BW177D-40	8CEXL03.3ACC	XR7T55			3	(CH)	United Rental	X	560	

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(BU) 2.02 AQ-SC5

Kiewit

Marsh Landing Generating Station

Date: 9/7/11

37-2141 Has been maintained per manufactures requirements and is in good working order. At the time of the machines arrival to site (Marsh Landing Generating Station) a full inspection prior to allowing the machine to work was performed. If any Safety or Environmental issues where found during this inspection the machine would not be allowed to work tell all issues have been resolved.

Kevin Bock
Equipment Superintendent
Kiewit Powers Constructors Co

California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0164-1 New Off-Road Compression-Ignition Engines

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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines 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)
2006	6DZXL07.1053	7.1	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler	Loader, Other Industrial Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	.20	20	15	50
		CERT	-	-	3.4	1.1	.15	3	1	6

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.

This Executive Order hereby supersedes Executive Order U-R-013-0164 dated December 30, 2005

Executed at El Monte, California on this 21ST day of February 2006.

Allen Lyons, Chief
Mobile Source Operations Division

U-R 013-0167-1

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.E Devic
6DZXL07.1053	C3GI150	D7EGCE3	201.1@ 2100	114	79.7	703.6@1550	149	76.9	TC, DOT, CAC
6DZXL07.1053	C3GI165	D7EGBE3	221.2@ 2100	124	86.7	774.4@1550	161	83.1	
6DZXL07.1053	C3GI180	D7EGAE3	241.3@ 2100	135	94.4	811.3@1550	171	85.4	
6DZXL07.1053	C3GI162	D7ELAE3	217.2@ 2100	123	86.0	785.5@1550	165	82.4	
6DZXL07.1053	C3GI50A	D7ELBE3	201.1@ 2100	114	79.7	785.5@1550	165	82.4	
6DZXL07.1053	C3GI153	D7EEAE3	205.1@ 1800	131	78.5	711.7@1550	146	65.6	
6DZXL07.1053	C3GI138	D7EEBE3	185.0@ 1800	120	71.9	641.6@1550	131	58.9	
6DZXL07.1053	C3GI181	TAD760VE	242.7@ 2300	126	96.5	811.3@1550	170	84.9	
6DZXL07.1053	C3GI200	TAD760VE	268.2@ 2300	138	105.7	811.3@1550	173	86.4	

Kiewit

Marsh Landing Generating Station

Date: 9/7/11

CAT 345E Has been maintained per manufactures requirements and is in good working order. At the time of the machines arrival to site (Marsh Landing Generating Station) a full inspection prior to allowing the machine to work was performed. If any Safety or Environmental issues where found during this inspection the machine would not be allowed to work tell all issues have been resolved.

Kevin Bock
Equipment Superintendent
Kiewit Powers Constructors Co

BK

California Environmental Protection Agency AIR RESOURCES BOARD	CATERPILLAR INC.	EXECUTIVE ORDER U-R-001-0410 New Off-Road Compression-Ignition Engines

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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems 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)
2011	BCPXL12.5HPA	12.5	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Exhaust Gas Recirculation, Periodic Trap Oxidizer	Tractor

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
130 ≤ kW ≤ 560	Tier 4 ALT NOx	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		FEL	N/A	2.0	N/A	N/A	0.02	N/A	N/A	N/A
		CERT	0.06	1.3	--	1.5	0.001	--	--	--

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 4 day of November 2010.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (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
BCPXL12.5HPA	Cert Test 1	C13	500@1900	275	175	1738@1500	337	170	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	Cert Test 2	C13	503@1500	334	169	NA	NA	NA	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	1 - 500/1900	C13	500@1900	275	175	1738@1500	337	170	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	2 - 428/1800	C13	371@1870	209	132	1345@1650	260	144	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	3 - 428/1800	C13	371@1870	217	136	1345@1650	262	145	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	4 - 380/2100	C13	280@2200	159	118	1529@1300	297	159	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	5 - 443/1900	C13	443@1900	242	155	1509@1400	293	138	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	6 - 475/2100	C13	207@2300	117	90	1603@1400	313	147	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	7 - 520/2100	C13	226@2300	121	93	1755@1400	344	162	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	8 - 378/2000	C13	323@2100	183	129	1555@1300	296	129	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	9 - 385/2100	C13	167@2300	107	83	1300@1400	257	130	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	10 - 415/2100	C13	180@2300	108	84	1401@1400	275	130	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	11 - 440/2100	C13	191@2300	132	102	1485@1400	304	143	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	12 - 500/1900	C13	500@1900	279	178	1735@1500	342	173	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	13 - 544/1800	C13	503@1500	334	169	NA	NA	NA	DFI,TC,ECM,CAC,EGR,PTC
BCPXL12.5HPA	14 - 544/1800	C13	567@1800	334	169	NA	NA	NA	DFI,TC,ECM,CAC,EGR,PTC

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37-9902 (Del)

United Rentals

September 6, 2011

Unit # 1205204 Takeuchi TL230 skidsteer has been maintained per manufactures requirements and is in good working order. At the time of the machines departure from United Rental yard in Dublin, CA. to the jobsite (Marsh Landing Generating Station) a full inspection was performed prior to allowing the machine to leave our yard. If any Safety or Environmental issues where found during this inspection the machine would not be allowed to be put to work until all issues have been resolved.

United Rentals

George Calligeros

Account Manager

Northern California

(BY)

California Environmental Protection Agency AIR RESOURCES BOARD	KUBOTA Corporation	EXECUTIVE ORDER U-R-025-0460 New Off-Road Compression-Ignition Engines

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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems 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)
2010	AKBXL03.3CAD	3.053, 3.331	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Mechanical Direct Injection, Turbocharger, Exhaust Gas Recirculation	Tractor, Other Industrial Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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
37 ≤ kW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT	--	--	3.9	1.2	0.21	3	1	8

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 22 ND day of December 2009.

M. Tuonte

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: **KUBOTA Corporation**
Engine category: **Nonroad CI**
EPA Engine Family: **AKBXL03.3CAD**
Mfr Family Name: **N/A**
Process Code: **New Submission**

Attachment
page 1 of 1

U-R-025-0450
12/16/2009

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (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
V3007-DI-T-ET01	V3007-DI-T-ET	65.0@2600	48.2	28.0	164.6@1600	51.3	18.3	EM,EGR, Mechanical DI, TC
V3007-DI-T-ET02	V3007-DI-T-ET	62.1@2400	45.7	24.5	161.5@1600	50.1	17.9	EM,EGR
V3007-DI-T-ET03	V3007-DI-T-ET	59.1@2200	46.0	22.6	161.5@1600	50.1	17.9	EM,EGR
V3007-DI-T-ET04	V3007-DI-T-ET	54.4@2600	41.4	24.1	145.6@1600	45.7	16.3	EM,EGR
V3307-DI-T-ET01	V3307-DI-T-ET	74.3@2200	62.5	30.7	215.4@1200	68.0	18.2	EM,EGR
V3307-DI-T-ET02	V3307-DI-T-ET	74.3@2600	54.9	31.9	195.5@1600	61.8	22.1	EM,EGR
V3307-DI-T-ET03	V3307-DI-T-ET	74.3@2400	57.3	30.7	195.5@1500	60.7	20.4	EM,EGR
V3307-DI-T-ET04	V3307-DI-T-ET	74.3@2200	60.5	29.8	195.5@1500	62.6	21.0	EM,EGR
V3307-DI-T-ET05	V3307-DI-T-ET	66.6@2000	60.0	26.8	196.9@1400	62.6	19.6	EM,EGR
V3307-DI-T-ET06	V3307-DI-T-ET	63.4@2200	51.8	25.5	175.9@1500	55.4	18.6	EM,EGR
V3307-DI-T-ET07	V3307-DI-T-ET	73.6@2600	57.4	33.4	190.1@1600	61.1	21.9	EM,EGR
V3307-DI-T-ET08	V3307-DI-T-ET	66.0@2600	51.4	29.9	166.2@1600	52.7	18.8	EM,EGR
V3307-DI-T-ET09	V3307-DI-T-ET	71.1@2500	52.0	29.1	186.6@1500	58.0	19.4	EM,EGR

4

2.02 AQ-SC5

37-9901 (B2)

United Rentals

September 6, 2011

Unit # 1162849 Bobcat T190 skidsteer has been maintained per manufactures requirements and is in good working order. At the time of the machines departure from United Rental yard in Dublin, CA. to the jobsite (Marsh Landing Generating Station) a full inspection was performed prior to allowing the machine to leave our yard. If any Safety or Environmental issues where found during this inspection the machine would not be allowed to be put to work until all issues have been resolved.

United Rentals

George Calligeros

Account Manager

Northern California

(B2)

California Environmental Protection Agency AIR RESOURCES BOARD	KUBOTA Corporation	EXECUTIVE ORDER U-R-026-0449 New Off-Road Compression-Ignition Engines

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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems 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)
2010	AKBXL02.6EAD	2.615	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Mechanical Direct Injection, Turbocharger, Exhaust Gas Recirculation	Compressor, Other Industrial Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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
37 ≤ kW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT	--	--	3.9	0.9	0.22	4	1	11

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 23RD day of December 2009.

M. Tuerto FOR AGM

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: **KUBOTA Corporation**
Engine category: **Nonroad CI**
EPA Engine Family: **AKBXL02.6EAD**
Mfr Family Name: **N/A**
Process Code: **Running Change**

Attachment

EO# U-R-025-0449

Page 1 of 1

1/20/2010

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (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
V2607-DI-T-ET01	V2607-DI-T-ET	66.0@2700	45.6	27.5	173.9@1600	54.0	18.8	EM,EGR, T6 DDI
V2607-DI-T-ET02	V2607-DI-T-ET	66.0@2700	45.6	27.5	162.5@1600	50.6	18.1	EM,EGR
V2607-DI-T-ET03	V2607-DI-T-ET	66.0@2700	45.6	27.5	162.5@1600	50.6	18.1	EM,EGR
V2607-DI-T-ET04	V2607-DI-T-ET	61.0@2700	42.1	25.4	155.5@1600	45.9	16.4	EM,EGR
V2607-DI-T-ET05	V2607-DI-T-ET	64.6@2600	45.5	26.4	162.5@1600	50.6	18.1	EM,EGR
V2607-DI-T-ET06	V2607-DI-T-ET	61.8@2400	45.5	24.4	162.5@1600	50.6	18.1	EM,EGR
V2607-DI-T-ET07	V2607-DI-T-ET	56.7@2200	44.5	21.9	162.5@1600	50.6	18.1	EM,EGR
V2607-DI-T-ET08	V2607-DI-T-ET	57.7@2000	48.3	21.6	166.5@1500	51.2	17.2	EM,EGR

5 Kiewit (CA)

Marsh Landing Generating Station

Date: 9/7/11

10-9478 Has been maintained per manufactures requirements and is in good working order. At the time of the machines arrival to site (Marsh Landing Generating Station) a full inspection prior to allowing the machine to work was performed. If any Safety or Environmental issues where found during this inspection the machine would not be allowed to work tell all issues have been resolved.

Kevin Bock
Equipment Superintendent
Kiewit Powers Constructors Co

(CA)

California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0332 New Off-Road Compression-Ignition Engines

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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems 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)
2010	ADZXL04.1076	4.038	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter, Exhaust Gas Recirculation	Loaders, Tractor, Dozer, Pump, Compressor, Other Industrial Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	4.0	0.6	0.09	2	1	2

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 27 day of January 2010.

Annette Hebert

Annette Hebert, Chief
Mobile Source Operations Division

Deutz AG
Nonroad CI

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (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
ADZXL04.1076	C3UI80	D4EEAE3	107.2@2000	95	42.2	348.1@1600	117	41.5	DDI, TC, CAC, ECM, EGR, SpL
ADZXL04.1076	C3UI80A	D4EEAE3	107.2@2000	95	42.2	348.1@1600	117	41.5	DDI, TC, CAC, ECM, EGR ↓

Attachment

EO # U-R-013-0332

12/24/2009

(CB) 2.02 AQ-SC5

Kiewit

Marsh Landing Generating Station

Date: 9/13/11

15-3301 Has been maintained per manufactures requirements and is in good working order. At the time of the machines arrival to site (Marsh Landing Generating Station) a full inspection prior to allowing the machine to work was performed. If any Safety or Environmental issues where found during this inspection the machine would not be allowed to work tell all issues have been resolved.

Kevin Bock
Equipment Superintendent
Kiewit Powers Constructors Co

(CB) 2.02 AQ-SC5

AIR RESOURCES BOARD	MITSUBISHI FUSO TRUCK AND BUS CORPORATION	EXECUTIVE ORDER U-R-042-0044 New Off-Road Compression-Ignition Engines

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-02-003;

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)
2010	AMFTL07.5M6A	7.545	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Exhaust Gas Recirculation	Crane, Forklift, Excavator, Off-Road Vehicle

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), 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
75≤KW<130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
130≤KW<225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.4	0.8	0.11	10	0	21

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 25 day of August 2009.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

ATTACHMENT 1 OF 1

U-R-042-0044

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (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
AMFTL07.5M6A	6M60TLA3A-US10	6M60-TLA3A	252 @ 2150	124	88.9	629 @ 1800	128	76.8	DDI,EM,ECM,EGR,PCV TC,CAC
AMFTL07.5M6A	6M60TLA3B-US10	6M60-TLA3B	267 @ 2600	116	100.5	579 @ 1400	115	53.7	DDI,EM,ECM,EGR,PCV TC,CAC
AMFTL07.5M6A	6M60TLA3C-US10	6M60-TLA3C	215 @ 2100	106	74.2	572 @ 1600	110	61.3	DDI,EM,ECM,EGR,PCV TC,CAC
AMFTL07.5M6A	6M60TLA3D-US10	6M60-TLA3D	195 @ 2100	96	67.2	546 @ 1600	110	58.7	DDI,EM,ECM,EGR,PCV TC,CAC
AMFTL07.5M6A	6M60TLA3E-US10	6M60-TLA3E	173 @ 2100	86	60.2	516 @ 1500	104	55.5	DDI,EM,ECM,EGR,PCV TC,CAC
AMFTL07.5M6A	6M60TLA3T-US10	6M60-TLA3T	148 @ 2100	75	52.5	450 @ 1600	90	48.0	DDI,EM,ECM,EGR,PCV TC,CAC

2.02 AQ-SC5

Kiewit

Marsh Landing Generating Station

Date: 9/14/11

Xtreme Forklift Has been maintained per manufactures requirements and is in good working order. At the time of the machines arrival to site (Marsh Landing Generating Station) a full inspection prior to allowing the machine to work was performed. If any Safety or Environmental issues where found during this inspection the machine would not be allowed to work tell all issues have been resolved.

Kevin Bock
Equipment Superintendent
Kiewit Powers Constructors Co

(cc)

California Environmental Protection Agency AIR RESOURCES BOARD	PERKINS ENGINES COMPANY LTD.	EXECUTIVE ORDER U-R-022-0159 New Off-Road Compression-Ignition Engines

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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems 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)
2011	BPKXL04.4NJ1	4.4	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Electronic Direct Injection, Electronic Control Module, Turbocharger, Charge Air Cooler	Cranes, Loaders, Tractor, Dozer, Pump, Compressor, Generator Set, Other Industrial Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.7	1.8	0.21	7	2	11

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 13 day of December 2010.

Annette Hebert, Chief
Mobile Source Operations Division

Attachment 1 of 2

J-R-022-2015Q-SC5

12-3-2010

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (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
PKXL04.4NJ1	1	3339/2200	144@2200	114.5	55.2	413@1400	131.7	40.4	DDI TAA ECM
PKXL04.4NJ1	2	2936/2000	145@2000	120.0	52.6	405@1400	124.3	38.8	DDI TAA ECM
PKXL04.4NJ1	3	2932/2000	118@2000	100.5	44.1	391@1400	121.3	37.2	DDI TAA ECM
PKXL04.4NJ1	4	2940/2000	136.8@2000	114.8	50.3	406@1400	124.4	38.2	DDI TAA ECM
PKXL04.4NJ1	5	2934/2000	107.3@2000	91.0	40.0	354@1400	112.4	34.5	DDI TAA ECM
PKXL04.4NJ1	6	3028/2200	142.4@2200	112.0	54.0	410@1400	126.8	38.9	DDI TAA ECM
PKXL04.4NJ1	7	2894/2200	139.6@2200	112.0	54.0	406@1400	126.8	38.9	DDI TAA ECM
PKXL04.4NJ1	8	3032/2200	136.8@2200	107.3	51.7	395@1400	121.4	37.3	DDI TAA ECM
PKXL04.4NJ1	9	2908/2200	134@2200	107.3	51.7	391@1400	121.4	37.3	DDI TAA ECM
PKXL04.4NJ1	10	3026/2200	129.4@2200	102.4	49.4	381@1400	117.4	36.0	DDI TAA ECM
PKXL04.4NJ1	11	2900/2200	127@2200	102.4	49.4	376@1400	117.4	36.0	DDI TAA ECM
PKXL04.4NJ1	12	3020/2200	125@2200	100.2	48.3	366@1400	114.7	35.2	DDI TAA ECM
PKXL04.4NJ1	13	2898/2200	122@2200	100.2	48.3	361@1400	114.7	35.2	DDI TAA ECM
PKXL04.4NJ1	14	3198/2200	122@2200	98.8	47.6	361@1400	113.4	34.8	DDI TAA ECM
PKXL04.4NJ1	15	3197/2200	120@2200	98.8	47.6	358@1400	113.4	34.8	DDI TAA ECM
PKXL04.4NJ1	16	3018/2200	117@2200	96.0	46.3	381@1400	118.4	36.3	DDI TAA ECM
PKXL04.4NJ1	17	2939/2200	114@2200	96.0	46.3	376@1400	118.4	36.3	DDI TAA ECM
PKXL04.4NJ1	18	3012/2200	110@2200	91.1	43.9	358@1400	112.5	34.5	DDI TAA ECM
PKXL04.4NJ1	19	2906/2200	107@2200	91.1	43.9	354@1400	112.5	34.5	DDI TAA ECM
PKXL04.4NJ1	20	3272/2400	125.9@2400	95.9	50.5	364@1400	114.1	36.0	DDI TAA ECM
PKXL04.4NJ1	21	3273/2400	123@2400	95.9	50.5	361@1400	114.1	36.0	DDI TAA ECM
PKXL04.4NJ1	22	3274/2400	141@2400	104.1	54.8	394@1400	121.9	38.5	DDI TAA ECM
PKXL04.4NJ1	23	3275/2400	138.8@2200	104.1	54.8	391@1400	121.9	38.5	DDI TAA ECM
PKXL04.4NJ1	24	3362/1800	156.8@1800	138.5	54.6	457@1800	138.5	54.6	DDI TAA ECM
PKXL04.4NJ1	25	3364/1500	131@1500	138	45.4	457@1500	138	45.4	DDI TAA ECM
PKXL04.4NJ1	26	3366/1800	130@1800	120	47.4	379@1800	120	47.4	DDI TAA ECM
PKXL04.4NJ1	27	3368/1500	108@1500	112	36.8	379@1500	112	36.8	DDI TAA ECM

TC, CAC

Attachment 2 of 2

U-R-022-0159

12-3-2010

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (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
PKXL04.4NJ1	28	3260/2200	102.5@2200	84.3	40.7	348@1400	109.0	33.5	ECM DDI TAA
PKXL04.4NJ1	29	3261/2200	100@2200	84.3	40.7	345/1400	109.0	33.5	ECM DDI TAA
PKXL04.4NJ1	30	3262/2200	117.3@2200	94.0	45.3	394/1400	121.7	37.3	ECM DDI TAA
PKXL04.4NJ1	31	3263/2200	114.9@2200	94.0	45.3	391/1400	121.7	37.3	ECM DDI TAA
PKXL04.4NJ1	32	3264/2200	126.9@2200	99.8	48.1	409@1400	124.6	38.2	ECM DDI TAA
PKXL04.4NJ1	33	3265/2200	124.4@2200	99.8	48.1	406@1400	124.6	38.2	ECM DDI TAA
PKXL04.4NJ1	34	3425/2220	123.1@2220	97.8	47.6	361@1400	112.0	34.4	ECM DDI TAA
PKXL04.4NJ1	35	3426/2500	124.7@2500	92.0	50.4	362@1500	107.9	35.5	ECM DDI TAA
PKXL04.4NJ1	36	3472/2400	126@2400	95.9	50.5	364@1400	114.1	36.0	DDI TAA ECM
PKXL04.4NJ1	37	3474/2400	141.3@2400	104.1	54.8	361@1400	121.9	38.5	DDI TAA ECM
PKXL04.4NJ1	38	3494/2200	122@2200	98.8	47.6	358@1400	113.4	34.8	DDI TAA ECM

TC CAC

(CD)

United Rentals

September 19, 2011

Unit # 1207906 Case Skiploader 570MXT has been maintained per manufactures requirements and is in good working order. At the time of the machines departure from United Rental yard in Dublin, CA. to the jobsite (Marsh Landing Generating Station) a full inspection was performed prior to allowing the machine to leave our yard. If any Safety or Environmental issues where found during this inspection the machine would not be allowed to be put to work until all issues have been resolved.

United Rentals

George Calligeros

Account Manager

Northern California

(CD) 2.02 AQ-SC5

6-9905

California Environmental Protection Agency AIR RESOURCES BOARD	CNH UK LIMITED	EXECUTIVE ORDER U-R-008-0107 New Off-Road Compression-Ignition Engines

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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems 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)
2011	BNHXL04.5DTD	4.5	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Mechanical Diesel Injection, Turbocharger, and Smoke Puff Limiter	Tractor, Dozer, and Generator Set

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	4.3	1.4	0.33	14	10	20

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 26 day of October 2010.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

Attachment
10/13/2010

2.02 AQ-SC5

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (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
BNHXL04.5DTD	445T/MMM	F4CE9454H*J/ F4GE9454H*J	99 @ 2200	88.2	N/A	302 @ 1400	110	N/A	SPL. TC. DDI.
BNHXL04.5DTD	445T/MMG	F4GE9454K*J	84 @ 2200	76	N/A	273 @ 1320	98	N/A	SPL. TC. DDI.
BNHXL04.5DTD	445T/MMJ	F4GE9454J*J	89 @ 2200	78	N/A	288 @ 1320	102	N/A	SPL. TC. DDI.
BNHXL04.5DTD	445T/MMC	F4GE9454C*J/ F4CE9454C*J	90 @ 2300	74	N/A	284 @ 1380	99	N/A	SPL. TC. DDI.
BNHXL04.5DTD	N/A	F4GE9455A*J	93 @ 1800	88	N/A	270 @ 1800	88	N/A	SPL. TC. DDI.
BNHXL04.5DTD	N/A	F4GE9455B*J	79 @ 1800	76	N/A	231 @ 1800	76	N/A	SPL. TC. DDI.

MDI

10-9904 (CE)

CRESCO EQUIPMENT RENTALS

Date: 9-19-11

NM28969, Has been maintained per manufactures requirements and is in good working order. At the time of the machines arrival to site (Marsh Landing Generating Station) a full inspection prior to allowing the machine to work was preformed. If any Safety or Environmental issues were found during this inspection the machine would not be allowed to work until all issues have been resolved.

Skip Watson
Cresco Equipment

(CE) 2.02 AQ-SC5

California Environmental Protection Agency AIR RESOURCES BOARD	MITSUBISHI HEAVY INDUSTRIES, LTD.	EXECUTIVE ORDER U-R-035-0288 New Off-Road Compression-Ignition Engines

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-02-003;

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)
2010	AMVXL02.5FFF	1.9, 2.5	Diesel	5000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Indirect Diesel Injection, Turbocharger	Excavator

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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
19 ≤ KW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT	--	--	5.5	0.7	0.24	4	3	7

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 28 day of January 2010.

Annette Hebert

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Summary Template

U-R-035-0288

1/12/2010

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (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
AMVXL02.5FFF	S3Q2-Y3TEPA1	S3Q2-T	41.6@2400	46.0	18.2	91.4@2200	45.0	16.3	IDI,TC
AMVXL02.5FFF	S3Q2-Y3TSCM	S3Q2-T	40.5@2400	45.0	17.8	89.2@2200	44.0	15.9	IDI,TC
AMVXL02.5FFF	S4Q2-Y3TSCM	S4Q2-T	48.5@2400	39.0	20.5	109.8@2000	39.5	17.3	IDI,TC
AMVXL02.5FFF	S3Q2-Y3T61DP	S3Q2-T	40.5@2400	45.0	17.8	89.2@2200	44.0	15.9	IDI,TC
AMVXL02.5FFF	S4Q2-Y3T61DP	S4Q2-T	48.5@2400	39.0	20.5	109.8@2000	39.5	17.3	IDI,TC

6.00

2.02 AQ-SC5

(CF)

Kiewit

Marsh Landing Generating Station

Date: 9/19/11

JD 210 Has been maintained per manufactures requirements and is in good working order. At the time of the machines arrival to site (Marsh Landing Generating Station) a full inspection prior to allowing the machine to work was performed. If any Safety or Environmental issues where found during this inspection the machine would not be allowed to work tell all issues have been resolved.

Kevin Bock
Equipment Superintendent
Kiewit Powers Constructors Co

California Environmental Protection Agency AIR RESOURCES BOARD	JOHN DEERE POWER SYSTEMS	EXECUTIVE ORDER U-R-004-0382 New Off-Road Compression-Ignition Engines

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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems 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)
2010	AJDXL06.8106	4.5	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbo Charger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter	Loaders, Tractor, Pump, Compressor, Generator Set, Other Industrial Equipment

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
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		FEL	--	--	--	--	0.30	--	--	--
		CERT	--	--	4.1	1.4	0.20	1	2	2

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 28 day of December 2009.

Annette Hebert, Chief
Mobile Source Operations Division

Date: 12/10/09 EO#: U-R-0814-0382 2.02.AQ-SC5

Attachment 1 of 1

Engine Model Summary Form

Manufacturer: John Deere Power Systems

Engine category: Nonroad CI

EPA Engine Family: AJDXL06.8106

Mfr Family Name: 350HAD

Process Code: New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (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
4045HF285B	4045H	99.24@2400	77.80@2400	42.07@2400	339.24@1600	113.9@1600	40.99@1600	EM EC SPL
4045HL280	4045H	95.22@2300	74.30@2300	38.43@2300	288.35@1600	93.6@1600	33.67@1600	EM EC SPL
4045HL282A	4045H	99.24@2300	80.80@2300	40.13@2300	303.84@1600	105.6@1600	36.38@1600	EM EC SPL
4045HL282B	4045H	95.22@2300	79.20@2300	39.25@2300	289.83@1600	102.9@1600	35.50@1600	EM EC SPL
4045HT064	4045H	99.24@2250	87.60@2250	34.33@2250	258.85@1600	85.7@1600	30.83@1600	EM EC SPL
4045HT059A	4045H	75.10@2200	63.10@2200	31.22@2200	233.34@1500	78.3@1500	28.42@1500	EM EC SPL
4045HT059B	4045H	80.47@2200	68.90@2200	33.10@2200	252.22@1500	84.3@1500	28.42@1500	EM EC SPL
4045HT059C	4045H	84.49@2200	66.90@2200	34.57@2200	260.33@1500	87.4@1500	29.50@1500	EM EC SPL
4045HT059D	4045H	89.51@2200	72.40@2200	35.81@2200	274.34@1500	91.4@1500	30.85@1500	EM EC SPL
4045HT059E	4045H	99.24@2200	79.80@2200	39.49@2200	306.26@1500	99.2@1500	33.45@1500	EM EC SPL
4045HT061	4045H	99.24@2000	84.80@2000	38.14@2000	309.44@1500	101.8@1500	34.26@1500	EM EC SPL
4045HT281	4045H	99.24@2400	80.30@2400	41.72@2400	290.57@1600	102.8@1600	35.50@1600	EM EC SPL
4045HLV50	4045H	99.24@2200	78.76@2200	38.94@2200	309.00@1500	100.5@1500	33.89@1500	EM EC SPL
4045HL284	4045H	99.24@2300	79.80@2300	39.47@2300	314.16@1600	105.5@1600	36.38@1600	EM EC SPL
4045HL282C	4045H	99.24@2300	80.80@2300	40.13@2300	303.84@1600	105.6@1600	36.38@1600	EM EC SPL
4045HRT83F	4045H	99.24@2200	82.90@2200	41.01@2200	317.85@1650	100.7@1650	37.26@1650	EM EC SPL
4045HT064	4045H	99.24@2000	85.50@2000	37.44@2000	304.58@1500	103.4@1500	34.09@1500	EM EC SPL
4045HL287A	4045H	99.24@2300	75.20@2300	38.81@2300	303.84@1600	95@1600	34.18@1600	EM EC SPL
4045HL287B	4045H	99.24@2300	75.20@2300	38.81@2300	303.84@1600	95@1600	34.18@1600	EM EC SPL

DOI, TCCA

(CG) 2.02 AQ-SC5

Kiewit

Marsh Landing Generating Station

Date: 9/21/11

CAT 314 Has been maintained per manufactures requirements and is in good working order. At the time of the machines arrival to site (Marsh Landing Generating Station) a full inspection prior to allowing the machine to work was performed. If any Safety or Environmental issues where found during this inspection the machine would not be allowed to work tell all issues have been resolved.

Kevin Bock
Equipment Superintendent
Kiewit Powers Constructors Co

California Environmental Protection Agency AIR RESOURCES BOARD	MITSUBISHI HEAVY INDUSTRIES, LTD.	EXECUTIVE ORDER U-R-035-0316 New Off-Road Compression-Ignition Engines

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-02-003;

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)
2011	BMVXL04.2CCC	4.2	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Engine Control Module	Crane, Loader, Tractor, Dozer, Pump, Compressor and Industrial Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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
56 ≤ KW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	3.2	2.4	0.16	2	2	3

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 7 day of February 2011.

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Summary Template

LI-R-035-0316
01/11/2011

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (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
BMVXL04.2CCC	C4.2-64kW	C4.2	86@1700	81	31	291@1400	99	28	DI TAA, ECM
BMVXL04.2CCC	C4.2-72kW	C4.2	97@1800	86	34	310@1400	105	31	DI TAA, ECM
BMVXL04.2CCC	D04FD-72kW-H01	C4.2	97@1800	86	34	310@1400	105	31	DI TAA ECM

(CH)

September 19, 2011

Unit # 1207293 Bomag BW177D-40 has been maintained per manufactures requirements and is in good working order. At the time of the machines departure from United Rental yard in Dublin, CA. to the jobsite (Marsh Landing Generating Station) a full inspection was performed prior to allowing the machine to leave our yard. If any Safety or Environmental issues where found during this inspection the machine would not be allowed to be put to work until all issues have been resolved.

United Rentals

George Calligeros

Account Manager

Northern California

(CH) 2.02 AQ-SC5

California Environmental Protection Agency AIR RESOURCES BOARD	CUMMINS INC.	EXECUTIVE ORDER U-R-002-0418 New Off-Road Compression-Ignition Engines

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-02-003;

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)
2008	8CEXL03.3ACC	3.3	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler	Crane, Loader, Tractor, Dozer, Pump, Compressor, Generator

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	4.1	1.2	0.31	8	2	14

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 6 day of December 2007.

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT Pg 1 of 1

Engine Model Summary Template

U-R-002-0418

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (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
8CEXL03.3ACC	FR3C05	B3.3	87@2600	63	37	246@1600	77	28	DDI,TC,CAC
8CEXL03.3ACC	FR92084	B3.3	85@2600	62	36	225@1500	70	23	DDI,TC,CAC
8CEXL03.3ACC	FR92085	B3.3	80@2200	66	32	225@1500	70	23	DDI,TC,CAC
8CEXL03.3ACC	FR92086	B3.3	76@2600	59	35	214@1500	65	22	DDI,TC,CAC
8CEXL03.3ACC	FR92233	B3.3	85@2400	67	36	239@1600	75	27	DDI,TC,CAC

2.02 AQ-SC5

Marsh Landing Generating Station (08-AFC-3C)
Biological Resources Report Subsections 2.04/2.06
September 2011

October 4, 2011

Christine Stora
Compliance Project Manager
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814-5512

RE: Marsh Landing Generating Station (08-AFC-3C)
September 2011 Monthly Monitoring Summary Report, Biological Resources

Dear Ms. Stora:

In accordance with BIO-2, BIO-5 and BIO-6 of the California Energy Commission's (CECs) Conditions of Certification (COCs), this report summarizes the surveys and monitoring of biological resources during September 2011 for the Marsh Landing Generating Station (MLGS). This document presents the results of monitoring, describes activities conducted, and identifies compliance issues found in accordance with the COCs for biological resources and Section 9.3 of the Biological Resources Mitigation, Implementation, and Monitoring Plan (BRMIMP) for the MLGS.

Project Description

The MLGS site is located in unincorporated Contra Costa County, California, approximately one-tenth of a mile from the current City of Antioch limits and just west of State Route (SR) 160. Surrounding land uses include the existing Contra Costa Power Plant (CCPP) to the north, east and south, the Pacific Gas and Electric (PG&E) electrical switchyard to the south, the PG&E Gateway Generating Station to the east, a large vacant lot that was previously used for industrial (paper making) purposes to the west, and the San Joaquin River to the north.

The MLGS site will occupy approximately 27 acres on the western portion of the CCPP site formerly occupied by five #6 fuel oil tanks and an area to the east of the former tank farm. The proposed MLGS site, construction laydown areas, and project linear routes are mostly contained within the existing CCPP property and are highly disturbed or developed due to ongoing CCPP operations, recently completed demolition of fuel oil tanks on the site, and construction of the Gateway Generating Station. The project includes a new wastewater pipeline to convey, process, and sanitize wastewater for the City of Antioch's sewer main on Wilbur Avenue.

The majority of the MLGS site is composed of paved, graveled, or bare ground surfaces with very sparse ruderal and ornamental vegetation. Herbaceous cover, when present, is limited to weedy annuals including willow herb (*Epilobium brachycarpum*), prickly lettuce (*Lactuca serriola*), black mustard (*Brassica nigra*), burclover (*Medicago polymorpha*), and short-pod mustard (*Hirschfeldia incana*). A fencerow of Tasmanian bluegum (*Eucalyptus globulus*) occurs along the western perimeter of the MLGS site. Because the MLGS site has been primarily devoid of vegetation for the last 59 years while used as a fuel oil tank farm, and was the site of demolition over the several months prior to MLGS mobilization and construction, wildlife use of the site is limited.

Biological Resources Monitoring

Condition of Certification BIO-2 requires that the Designated Biologist "supervise, conduct and coordinate mitigation, monitoring and other biological resources compliance efforts, particularly in areas requiring avoidance or containing sensitive biological resources, such as special status species or their habitat." As such, monitoring of this site began at the initiation of site mobilization and demolition activities on February 14, 2011, and has continued through the present. Through most of September the approved level of biological monitoring was one monitoring inspection two times per week. On September 26, 2011, URS, in coordination with GenOn and the CEC Biologist and Compliance Project Manager, reduced the biological monitoring effort to once per every two weeks. This level of effort was considered sufficient due to the absence of active bird nests or other biological concerns that would normally require daily presence of a biologist. Biological monitoring occurred on September 1, 6, 8, 13, 15, 20 and 22, 2011; a biological monitor was on site on each of these days.

Approved biological monitors, under the supervision of the Designated Biologist, arrive on site to check-in with the MLGS Site Manager and attend the Kiewit daily safety/toolbox briefing. Monitors then proceed with their daily monitoring inspection, documented in the Daily Monitoring Log. A typical monitoring inspection consists of a walk around the project site to record observations of ongoing activities and inspect active work areas for wildlife presence and indirect (i.e. noise-, dust-related) disturbance. During the monitoring inspection, monitors record all species observed within and adjacent to the project site on the Daily Monitoring Log (see Attachment A for complete Daily Monitoring Logs and Attachment B for a complete list of species observed during biological resources monitoring).

Monitors perform inspections to ensure proper maintenance and continued implementation of the mitigation measures listed below. This includes an inspection of all ESA fencing and silt fencing. Monitors also briefly survey the entire site, including inactive work zones, for nesting bird activity, stabilization of disturbed slopes where erosion may occur, proper management of potential wildlife pitfalls, and proper waste disposal. Should further mitigation measures be implemented in the future, monitors will conduct inspections to ensure they are well-kept in accordance with the COCs.

In the event that the Designated Biologist determines that the current level of monitoring is not appropriate in certain locations, the CEC Compliance Project Manager shall be notified detailing the justification for the change in the level of monitoring. This request will be reviewed and must be approved by the CPM prior to any change in monitoring level.

Biological Resources Monitoring Observations: September 2011

Installation of an off-site water and sewer line continued throughout September. URS biologists and/or construction personnel inspected the trench throughout September for entrapped wildlife prior to backfilling each day but no additional wildlife was found in the trench.

On September 20, a URS monitor who was no longer on-site received a call from Kiewit informing him that a small snake was detected in an on-site trench. The monitor advised Kiewit, who released the snake north of the project area. Based on photographs taken by Kiewit, the snake appeared to be a juvenile gopher snake (*Pituophis catenifer*).

The federally listed endangered Antioch dunes evening primrose (*Oenothera deltoides* ssp. *howellii*) (primrose) first described in the May 2011 monthly report (URS 2011a) growing on the property immediately west of the MLGS site remains undetected in the project area. The single primrose plant detected on July 27, outside the project area, west of Tank 6 (described initially in the July 2011 monthly report [URS 2011b]) remains protected behind ESA and silt fencing.

No other potential conflicts between the MLGS project and sensitive biological resources (within or outside of the project boundaries) were observed.

Construction Activities

During the month of September, MLGS site activities included:

- Potholing for underground utilities
- Installation of silt fence and straw wattles
- Trenching and back-filling in pipeline ROW
- Excavation and redistribution of soil
- Scraper and blade operation for project grading
- Removal/replacement of chain-link fence
- Developing trailer/staging area facilities
- Smoothing of ruts and localized depressions in construction area
- Compaction of graded soils
- Building wooden concrete forms and installing rebar
- Pile driving in energy block
- Pouring concrete

Implementation of Mitigation Measures

For the month of September 2011, several mitigation measures were implemented in accordance with COCs BIO-4, BIO-6 and the general Best Management Practices (BMPs) outlined in the BRMIMP Section 8.1. Specifically:

- Environmentally Sensitive Area (ESA) fencing was maintained to demarcate construction exclusion zones around the drainage areas west of Tank 6, the oak tree west of the berm between former Tanks 3 and 5 (COC BIO-6-1), the oak tree in the greenbelt near the well-pad construction site, and along the western openings of the detention basin culverts. Because the staging area between the PG&E switchyard and the detention basin is not in use and is isolated from the project area by chain-link fencing, ESA fencing is not required around the detention basin.
- Silt fencing was installed and maintained around staging and construction areas (Storm Water Pollution Prevention Plan measures; BRMIMP section 8.1.1)
- Potential wildlife pitfalls (trenches, bores, other excavations) were backfilled, sloped at a 3:1 ratio or covered completely at the end of each workday to avoid trapping wildlife (COC BIO-6-5)
- Worker guidelines were enforced to ensure all trash and food-waste was contained and removed daily from the site (COC BIO-6-8)

- Dust control measures were implemented on all unvegetated surfaces and in demolition areas (BRMIMP section 8.1.1)
- A vehicle speed limit of 15 miles per hour was enforced on all nonpublic roads (BRMIMP section 8.1.1)

Conditions of Certification Compliance

No significant instances of non-compliance with the Conditions of Certification or applicable laws, ordinances, and regulations were recorded.

Summary

Monitoring activities did not reveal any significant issues with management of biological resources. Observations of wildlife indicate the majority of activity occurs outside of the active construction zones and no impacts to wildlife have been observed or are anticipated. Monitors will continue to survey in the same manner as practiced currently unless otherwise specified by the Designated Biologist and approved by the Compliance Project Manager.

References

URS (URS Corporation). 2011a. Marsh Landing Generating Station (08-AFC-3C): May 2011 Monthly Monitoring Summary Report, Biological Resources. June 2.

URS (URS Corporation). 2011b. Marsh Landing Generating Station (08-AFC-3C): July 2011 Monthly Monitoring Summary Report, Biological Resources. August 4.

Sincerely,

Jonathan Stead
Designated Biologist, MLGS
URS Corporation

Attachments

cc: David Frandsen, GenOn
Nick Hontucan, GenOn
Anne Connell, URS

Attachment A

Daily Biological Resources Monitoring Logs
September 2011
Marsh Landing Generating Station

Biological Monitoring Log

Marsh Landing Generating Station	Date:9-1-11
Monitor: Connor Dibble	Time:1000-1200
Weather: Sunny; no wind; 90 deg. F	

Photo Numbers:

Activity that requires monitor's presence: Construction in tank basin

Description of Construction Activities Observed: Pile-driving in tank basin; construction of new tanks; foundation work (excavation, etc.). Some work in trenches.

Compliance Observations and Issues: None

ESA Fencing: All ESA fencing is in good condition.

Wildlife Pitfalls/Traps/Pipes: No issues

Nesting Birds: None

Coordination with Construction Personnel: Spoke with Dave Frandsen; spoke with construction personnel re: trench work.

Other Compliance Issues: None.

Wildlife Species List for Day:
sparrow
great egret
finch
American crow

Daily Monitoring Checklist **Date __9-1-11_____**
(Check if in compliance)

X ESA fencing or a physical barrier is separating sensitive resources from active work areas and is in good condition.

X All trenches left open overnight have an escape ramp or are completely covered

X No new bird nesting activity observed/known nests buffered appropriately

X Straw wattles and/or silt fence are in place and in good condition

X Any areas of disturbed soil with slopes off the site are stabalized to reduce erosion potential during and after construction

X Speed limit signs and messages are in place and accurate

X Equipment storage and parking is limited to the project site and/or designated staging areas

X Deliberate feeding of wildlife is not occurring

X Food-related trash is being disposed of in closed containers and removed weekly

X No firearms are present on site (except security personnel)

X No pets are present on site

Notes: Walked through trenches to clear amphibians, etc. Did not encounter any wildlife in trenches. Wildlife activity in general very low.

Biological Monitoring Log

Marsh Landing Generating Station	Date: 9/6/11
Monitor: Joe Bandel	Time: 7am - 8:30am
Weather: Sunny - clear, breezy	

Photo Numbers:

Activity that requires monitor's presence:

Description of Construction Activities Observed:

- pile driving
- excavation for pipeline in center of project area
- work on pipeline at north end of west access road
- installation of straw wattle

Compliance Observations and Issues:

ESA Fencing: In place & in good condition

Wildlife Pitfalls/Traps/Pipes: All traps were covered. Trenches had escape ramps. Pipes are covered

Nesting Birds: No nesting birds

Coordination with Construction Personnel: None

Other Compliance Issues: None

Wildlife Species List for Day:

eurasian collared dove - seen along western fence of project area
northern mockingbird - seen near willows at NW end of project area
black phoebe - seen at north end of project area

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Daily Monitoring Checklist **Date** 9/6/11
(Check if in compliance)

- ☑ ESA fencing or a physical barrier is separating sensitive resources from active work areas and is in good condition.
- ☑ All trenches left open overnight have an escape ramp or are completely covered
- ☑ No new bird nesting activity observed/known nests buffered appropriately
- ☑ Straw wattles and/or silt fence are in place and in good condition
- ☑ Any areas of disturbed soil with slopes off the site are stabalized to reduce erosion potential during and after construction
- ☑ Speed limit signs and messages are in place and accurate
- ☑ Equipment storage and parking is limited to the project site and/or designated staging areas
- ☑ Deliberate feeding of wildlife is not occurring
- ☑ Food-related trash is being disposed of in closed containers and removed weekly
- ☑ No firearms are present on site (except security personnel)
- ☑ No pets are present on site

Notes:

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Biological Monitoring Log

Marsh Landing Generating Station	Date: 9/8/11
Monitor: Joe Bandel	Time: 7am - 8:30am
Weather: Sunny, clear, breezy	

Photo Numbers:

Activity that requires monitor's presence:

Description of Construction Activities Observed:

- Piledriving
- moving stockpiled soil
- mobilizing materials + equipment
- Excavation along south end of project

Compliance Observations and Issues:

ESA Fencing: In place and in good condition

Wildlife Pitfalls/Traps/Pipes: Traps are covered. Trenches have escape ramps

Nesting Birds: No nests.

Coordination with Construction Personnel: None

Other Compliance Issues: None

Wildlife Species List for Day:

Great Egret - seen in marsh north of project area
American Crow - seen on power line at west side of project area
Black phoebe - seen in Eucalyptus trees on west side
Eurasian collared dove - seen near eucalyptus trees on west side.
White-tailed kite - seen in Eucalyptus trees South of project area
Yellow warbler - seen in Eucalyptus trees on west side

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Daily Monitoring Checklist **Date** 7/8/11
(Check if in compliance)

- [x] ESA fencing or a physical barrier is separating sensitive resources from active work areas and is in good condition.
- [x] All trenches left open overnight have an escape ramp or are completely covered
- [x] No new bird nesting activity observed/known nests buffered appropriately
- [x] Straw wattles and/or silt fence are in place and in good condition
- [x] Any areas of disturbed soil with slopes off the site are stabalized to reduce erosion potential during and after construction
- [x] Speed limit signs and messages are in place and accurate
- [x] Equipment storage and parking is limited to the project site and/or designated staging areas
- [x] Deliberate feeding of wildlife is not occurring
- [x] Food-related trash is being disposed of in closed containers and removed weekly
- [x] No firearms are present on site (except security personnel)
- [x] No pets are present on site

Notes:

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Biological Monitoring Log

Marsh Landing Generating Station	Date: 9/13/11
Monitor: Joe Bandel	Time: 7:00 am - 8:30
Weather: Sunny, clear	

Photo Numbers:

Activity that requires monitor's presence:

Description of Construction Activities Observed:

- Construction of structure at NW corner of project area
- pile driving
- Surveying
- Excavation + movement of earth material
-

Compliance Observations and Issues:

ESA Fencing: In place + in good condition

Wildlife Pitfalls/Traps/Pipes: pitfalls + traps are covered. Trenches have escape ramps

Nesting Birds: No nests

Coordination with Construction Personnel: None

Other Compliance Issues: None

Wildlife Species List for Day:

Western Scrub jay - Seen near willow trees at NW corner
European Starling - Seen on light pole
Great Egret - Seen in marsh north of project area
Northern mockingbird - Seen on fence on north side
Eurasian collared dove - Seen flying over project area
American Crow - Seen on light poles

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Daily Monitoring Checklist **Date** 9/12/11
(Check if in compliance)

- ☑ ESA fencing or a physical barrier is separating sensitive resources from active work areas and is in good condition.
- ☑ All trenches left open overnight have an escape ramp or are completely covered
- ☑ No new bird nesting activity observed/known nests buffered appropriately
- ☑ Straw wattles and/or silt fence are in place and in good condition
- ☑ Any areas of disturbed soil with slopes off the site are stabalized to reduce erosion potential during and after construction
- ☑ Speed limit signs and messages are in place and accurate
- ☑ Equipment storage and parking is limited to the project site and/or designated staging areas
- ☑ Deliberate feeding of wildlife is not occurring
- ☑ Food-related trash is being disposed of in closed containers and removed weekly
- ☑ No firearms are present on site (except security personnel)
- ☑ No pets are present on site

Notes:

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Biological Monitoring Log

Marsh Landing Generating Station	Date: 9/15/11
Monitor: Joe Bandel	Time: 7am - 8:30am
Weather: Sunny + clear	

Photo Numbers:

Activity that requires monitor's presence:

Description of Construction Activities Observed:

- Pile driving
- Construction of tank building at NW end
- Excavation work
- Backfilling of trench for pipeline

Compliance Observations and Issues:

ESA Fencing: In place + in good condition

Wildlife Pitfalls/Traps/Pipes: Pits + traps are covered. Trenches have escape ramps.

Nesting Birds: No nests

Coordination with Construction Personnel: None.

Other Compliance Issues: None.

Wildlife Species List for Day:

Western Scrub jay - seen near west entrance road.
American kestrel - seen on wire along west side of project area
Black phoebe - seen on fence of west access road
American Crow - seen flying over project area
Anna's hummingbird - seen in trees along west access road

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Daily Monitoring Checklist **Date** 9/15/11
(Check if in compliance)

- [x] ESA fencing or a physical barrier is separating sensitive resources from active work areas and is in good condition.
- [x] All trenches left open overnight have an escape ramp or are completely covered
- [x] No new bird nesting activity observed/known nests buffered appropriately
- [x] Straw wattles and/or silt fence are in place and in good condition
- [x] Any areas of disturbed soil with slopes off the site are stabalized to reduce erosion potential during and after construction
- [x] Speed limit signs and messages are in place and accurate
- [x] Equipment storage and parking is limited to the project site and/or designated staging areas
- [x] Deliberate feeding of wildlife is not occurring
- [x] Food-related trash is being disposed of in closed containers and removed weekly
- [x] No firearms are present on site (except security personnel)
- [x] No pets are present on site

Notes:

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Biological Monitoring Log

Marsh Landing Generating Station	Date: 9/20/11
Monitor: Joe Bandel	Time: 7am - 9am
Weather: Sunny, clear, high 80's	

Photo Numbers:

Activity that requires monitor's presence:

Description of Construction Activities Observed:
- Pile driving work
- excavation for pipelines
- pipeline work inside trenches
- work near [redacted] north end of west access road

Compliance Observations and Issues:

ESA Fencing: In place and in good condition

Wildlife Pitfalls/Traps/Pipes: trenches have escape ramps; traps are covered; large pipes are covered

Nesting Birds: No new nests.

Coordination with Construction Personnel: On monday Raja called me to inform me that a snake was found in the pipeline trench near the north end of the project. I asked him to release the snake in the area north of the project area away from the construction area. The snake was relocated to the area north of the project area.

Other Compliance Issues:

Wildlife Species List for Day:
Western Scrub jay - seen on north side
American Crow - seen on light tower
European Starling - seen on north side

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Daily Monitoring Checklist **Date** 9/20/11
(Check if in compliance)

- ☑ ESA fencing or a physical barrier is separating sensitive resources from active work areas and is in good condition.
- ☑ All trenches left open overnight have an escape ramp or are completely covered
- ☑ No new bird nesting activity observed/known nests buffered appropriately
- ☑ Straw wattles and/or silt fence are in place and in good condition
- ☑ Any areas of disturbed soil with slopes off the site are stabalized to reduce erosion potential during and after construction
- ☑ Speed limit signs and messages are in place and accurate
- ☑ Equipment storage and parking is limited to the project site and/or designated staging areas
- ☑ Deliberate feeding of wildlife is not occurring
- ☑ Food-related trash is being disposed of in closed containers and removed weekly
- ☑ No firearms are present on site (except security personnel)
- ☑ No pets are present on site

Notes: There is a pipeline designed to collect groundwater consisting of a series of baker tanks system along the north end of the project area. From the baker tanks a pipe crosses the road along the north end and terminates at the inlet to the San Joaquin River. Raja explained that the pipeline system is set up to store groundwater from the construction site, treat the water and then discharge it into the San Joaquin River. The system is currently Non-operational! No water is being stored in the baker tanks. A permit from the RWQCB is being pursued for the pipeline system, and the system will not operate until permit is obtained.

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Biological Monitoring Log

Marsh Landing Generating Station	Date: 9/22/11
Monitor: Joe Bandel	Time: 7am - 9am
Weather: Sunny, clear, high 80s	

Photo Numbers:

Activity that requires monitor's presence:

Description of Construction Activities Observed:

- pile driving
- work on tanks at NW. end of project site
- work on ramp to west access road near oil tank.
- pipeline work
- movement of soils + materials

Compliance Observations and Issues:

ESA Fencing: In place + in good condition

Wildlife Pitfalls/Traps/Pipes: trenches have escape ramps; traps are covered; pipes are covered

Nesting Birds: No nests

Coordination with Construction Personnel: None

Other Compliance Issues: None

Wildlife Species List for Day:

western scrub jay - seen along west fence
northern mockingbird - seen along north fence
european starling - seen on light pole on north side
American Crow - seen on light poles
eurasian collared dove - seen along fence at west end
black phoebe - seen near west access road

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Oakland, CA 94612

Daily Monitoring Checklist **Date** 9/22/11
(Check if in compliance)

- [x] ESA fencing or a physical barrier is separating sensitive resources from active work areas and is in good condition.
- [x] All trenches left open overnight have an escape ramp or are completely covered
- [x] No new bird nesting activity observed/known nests buffered appropriately
- [x] Straw wattles and/or silt fence are in place and in good condition
- [x] Any areas of disturbed soil with slopes off the site are stabalized to reduce erosion potential during and after construction
- [x] Speed limit signs and messages are in place and accurate
- [x] Equipment storage and parking is limited to the project site and/or designated staging areas
- [x] Deliberate feeding of wildlife is not occurring
- [x] Food-related trash is being disposed of in closed containers and removed weekly
- [x] No firearms are present on site (except security personnel)
- [x] No pets are present on site

Notes:

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Attachment B

Complete Observed Wildlife Species List
Biological Resources Monitoring
September 2011
Marsh Landing Generating Station

Scientific Name	Common Name	Conservation Status[1]	Origin	Notes[2]
Aphelocoma californica	western scrub jay	n/a	Native	throughout project area
Ardea alba	great egret	n/a	Native	observed in salt marsh north of project site
Carpodacus mexicanus	house finch	n/a	Native	throughout project area
Corvus brachyrhynchos	American crow	n/a	Native	throughout project area
Mimus polyglottos	northern mockingbird	n/a	Native	throughout project area
Sayomis nigricans	black phoebe	n/a	Native	throughout project area
Streptopelia decaocto	Eurasian collared-dove	n/a	Non-native	throughout project area
Sturnus vulgaris	European starling	n/a	Non-native	throughout project area
Elanus leucurus	White-tailed kite	DFG: FP	Native	transient in project site
Dendroica petechia	yellow warbler	DFG: SSC	Native	foraging in eucalyptus row
Calypte anna	Anna's hummingbird	n/a	Native	throughout project area
Pituophis catenifer	gopher snake	n/a	Native	throughout project area

[1] **Conservation Status Definitions**: DFG (California Department of Fish and Game): WL (Watch List), FP (Fully Protected), SSC (Species of Special Concern), T (Threatened)

[2] **Note**: Wildlife activity was observed *outside* the project site unless otherwise noted

Subsection 2.05(BIO-4)

As of 9-30-2011

Worker Environmental Awareness Program Matrix

Date	**Numbers**
9/30/2011	21
Total	**21**

Marsh Landing Generating Station

WORKER ENVIRONMENTAL AWARENESS PROGRAM
WORKER TRAINING ATTENDANCE RECORD

Trainer: Raja Ponniah
Date: 8/30/2011
Training: WEAP
(for office use only)

I have attended the Marsh Landing Generating Station Project **Worker Environmental Awareness Program Worker Training** and understand and agree to comply with all environmental requirements presented. I understand that I am accountable for my actions and that failure to comply with the requirements may be grounds for immediate removal from the project and/or legal action.

	SIGNATURE	PRINT NAME	COMPANY/AFFILIATION	Date
1.				
2.	Sean Crane	SEAN CRANE	CCS	8/30/11
3.	Ryan J. Blev	Ryan Blevens	CCS	8/30/11
4.		Axel Anderslon	CCS	8/30/11
5.	Jon Montoya	Jon Montoya	CCS	8/30/11
6.	Adrian Sanchez	Adrian Sanchez	CCS	8/30/11
7.		Nathaniel Pritzl	CCS	9/1/11
8.		Larry Singleton	CCS	9/1/11
9.		Maurice Ward Jr	FCI	9/6/11
10.	Bob Ford	Bob Ford	PKS	9-6-11
11.	Kevin Bertoseck	Kevin W Bertoseck	PKS	9611
12.	Greg Gilman	Greg Gilman	PKS	9611
13.	Craig Azevedo	Craig Azevedo	PKS	9-6-11
14.	Kathleen Kuba	Kathleen Kubat	URS	9/6/11
15.		JAMES GREGG	KIEWIT	9/7/11
16.	Michael Nicholas	Michael Nicholas	Foundation	9/8/11
17.		STACY BALL	URS	9-8-11
18.	Juliana Avalos	JULIANA AVALOS	PKS	9/08/11
19.				
20.				

Marsh Landing Generating Station

WORKER ENVIRONMENTAL AWARENESS PROGRAM
WORKER TRAINING ATTENDANCE RECORD

Trainer: Raja Ponnada/Eric Campbell
Date: Sept 2011
Training: WEAP
(for office use only)

I have attended the Marsh Landing Generating Station Project Worker Environmental Awareness Program Worker Training and understand and agree to comply with all environmental requirements presented. I understand that I am accountable for my actions and that failure to comply with the requirements may be grounds for immediate removal from the project and/or legal action.

	SIGNATURE	PRINT NAME	COMPANY/AFFILIATION	Done @ Half
1.		Justin Scott	Fremont Env.	
2.		LAURA TINGELSTAD	KIEWIT	
3.		MICHAEL MATHISEN	KIEWIT	
4.		STAN HARRIS	KIEWIT	PF
5.		DAVE HERWAT	KIEWIT	PF
6.		RAYMOND RUBY	FOUNDATION	RAP
7.		Christina RAMOS	KIEWIT	
8.		EDITH BUDDE	KIEWIT	
9.		Dee Mains	Kiewit	
10.				
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19.				
20.				

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 8, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

CIVIL-1-7.1 (CBO-0257)
Reviewed for Reference Only

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor
Supervising Building Inspector

JRitchie for
Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0257 **Title CIVIL-1-7.1** **File No 015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
VENDOR	R-3561 F G		R-3561 F & G	GF		9/8/2011	Reviewed for Reference Only
VENDOR	NPC Core and Seal Boots		NPC Core and Seal Boots	GF		9/8/2011	Reviewed for Reference Only
VENDOR	Manhole Joint Sealant 1		Manhole Joint Sealant	GF		9/8/2011	Reviewed for Reference Only
VENDOR	Lockeford 5000 PSI Mix Desig		Jensen Precast 5000PSI FIC Concrete Mix Design	GF		9/8/2011	Reviewed for Reference Only
VENDOR	JENSEN PRECAST 5000PSI		Jensen Precast 5000PSI	GF		9/8/2011	Reviewed for Reference Only
VENDOR	Drainage Submittal Drwgs - M		Drainage Submittal Drwgs - Marsh Landing	GF		9/8/2011	Reviewed for Reference Only
VENDOR	Drain Inlet 303 - Structure Det		Drain Inlet #303 - Structure Detail Dwg	GF		9/8/2011	Reviewed for Reference Only
VENDOR	Boot Connectors.		Boot Connectors	GF		9/8/2011	Reviewed for Reference Only
VENDOR	ADS N12 Storm Drain Pipe.		N-12 WT IB Pipe (Per ASTM F2648)	GF		9/8/2011	Reviewed for Reference Only
VENDOR	A-1024 Standard 1		D&L Part # A-1024	GF		9/8/2011	Reviewed for Reference Only
VENDOR	48 SDMH 302 - Rev 6-15-11		48" Dia SDMH #302	GF		9/8/2011	Reviewed for Reference Only
VENDOR	48 SDMH 301 - Rev 6-15-11		48" Dia SDMH #301	GF		9/8/2011	Reviewed for Reference Only
VENDOR	48 MH 4 Inch Base Rebar		48 MH 4 Inch Rebar	GF		9/8/2011	Reviewed for Reference Only
VENDOR	36 x 36 x 36 - Rebar Dwg		36x36x36 - Rebar Dwg	GF		9/8/2011	Reviewed for Reference Only

2.08 CIVIL-1

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 27, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 3

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

✓ CIVIL-1-5.0 (CBO-0251)
Approved

STRUC-1-19.0 (CBO-0288)
Returned with Comments

TSE-2-1.0 (CBO-0309)
Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0251 **Title** **CIVIL-1-5.0** **File No** **015F**

Document Type	*Dwg No Rev*	*Rev Date*	*Description*	*CCC Eng*	*Apv Date*	*Upload / Rtn Date*	*Comments*
Drawing	2009-019-CS-400 rev2	08/09/11	Temporary Facilities Plan	DS	9/27/2011	9/27/2011	Approved w/ Fire Approval

CBO-0288 **Title** **STRUC-1-19.0** **File No** **015F**

Document Type	*Dwg No Rev*	*Rev Date*	*Description*	*CCC Eng*	*Apv Date*	*Upload / Rtn Date*	*Comments*
Calcs	910R-02 revA part three		CT Exhaust/SCR Cooling Air Fan Foundation part 3	FW		9/27/2011	Returned with comments
Calcs	910R-02 revA part two		CT Exhaust/SCR Cooling Air Fan Foundation part 2	FW		9/27/2011	Returned with comments
Calcs	910R-02 revA part one		CT Exhaust/SCR Cooling Air Fan Foundation part 1	FW		9/27/2011	Returned with comments
Drawing	2009-019-SF-076C revA		SCR Fan Foundation Pre-Pour Embedment Details	FW		9/27/2011	Returned with comments
Drawing	2009-019-SF-076B revA		SCR Fan Foundation Sections and Details	FW		9/27/2011	Returned with comments
Drawing	2009-019-SF-076 revA		SCR Fan Foundation Plan	FW		9/27/2011	Returned with comments

CBO-0309 **Title** **TSE-2-1.0** **File No** **015F**

Document Type	*Dwg No Rev*	*Rev Date*	*Description*	*CCC Eng*	*Apv Date*	*Upload / Rtn Date*	*Comments*
Resume	EE3 RESUME - PHELPS		Resume for Daren Phelps, PE	DS	9/27/2011	9/27/2011	Approved

2.08 CIVIL-1

Subsection 2.09(CIVIL-3)

As of 9-30-2011

Non Conformance Report	None

Condition	Title	Deliverable Type	Deliverable No	Target Release Date IFR	Forecast Release Date IFR	ACTUAL SUBMITTAL DATE	CBO COMMENTS	RESUBMITTAL DATE	CBO APPROVED	Target Release Date IFC	Forecast Release IFC	ACTUAL SUBMITTAL DATE	CBO COMMENTS	RESUBMITTAL DATE	CBO APPROVED
GEN-2-1.0	Marsh Landing SCHEDULE														
	MASTER DRAWING LIST (REV 3)			11/18/10		01/04/11		03/04/11							
	MASTER SPECIFICATION LIST			11/18/10		01/04/11									
GEN-4-1.0															
	CALIFORNIA RESIDENT ENGINEER - F. GENE AMRHEIN			12/13/10		01/26/11									02/16/11
GEN-5-1.0	KPE RESPONSIBLE ENGINEERS														
	CE1RESUME - CIVIL ENGINEER RESUME - OMAR OLIVARES			11/23/10		01/17/11									02/15/11
	EE1RESUME - ELECTRICAL ENGINEER RESUME - CHARLIE SCHWARTZE			11/23/10		01/17/11									02/15/11
	ME1RESUME - MECHANICAL ENGINEER RESUME - JAKE ALBERS			11/23/10		01/17/11									02/15/11
	SE1RESUME - STRUCTURAL ENGINEER RESUME - F. GENE AMRHEIN			11/23/10		01/17/11									02/15/11
	GE1RESUME -GEOLOGIST RESUME - PHILIP MEYMAND			11/23/10		01/17/11									02/15/11
	EG1RESUME - ENGINEERING GEOLOGIST - RAY RICE			11/24/10		01/17/11									02/15/11
	SE2RESUME - STRUCTURAL ENGINEER RESUME - JOHN LIU					03/17/11									03/21/11
	EE3RESUME - ELECTRICAL ENGINEER RESUME - THARU NADARAJAH					06/20/11									06/21/11
	SE3RESUME - STRUCTURAL ENGINEER RESUME - CHAD ENDERS					06/21/11									06/28/11
GEN-6-1.0	3RD PARTY INSPECTIONS														
	QC SOUTHWEST RESUMES	Resumes		02/20/11	02/20/11	02/20/11									02/24/11
	Anselmo DeHaro	Resume				04/08/11									04/12/11
	RYAN DOYEL - RESUME	Resume				09/19/11									09/27/11
	DENISE CORKILL - CERTS	Resume				09/19/11									09/27/11
	DENISE CORKILL - RESUME	Resume				09/19/11									09/27/11
	JAY LOCATELLI CERT	Resume				09/19/11									09/27/11
	JAY L AWS CWI CERT	Resume				09/19/11									09/27/11
	MICAH EK CERT	Resume				09/19/11									09/27/11
	JEFF BROOKS	Resume				09/19/11									09/27/11
	JASON BURRIS CERT	Resume				09/19/11									09/27/11
	33.G.103-S1	Resume				09/19/11									09/27/11
	LAURA JOHNSON CERT	Resume				09/19/11									09/27/11

Condition	Title	Deliverable Type	Deliverable No	Target Release Date IFR		ACTUAL SUBMITTAL DATE	CBO COMMENTS		CBO DUE DATE	Target Release Date IFC					CBO APPROVED
CIVIL-1															
CIVIL-1-1.0	Fencing	Specification	907	12/28/2010	2/4/2011	2/4/2011				1/15/2011					3/10/2011
CIVIL-1-2.0	DESIGN CRITERIA	Misc.	CDC-001							1/5/2011	2/4/2011	2/4/2011	3/15/2011	3/23/2011	3/25/2011
CIVIL-1-3.0	GRADING KEY PLAN	Drawing	CG-001	1/12/2011	2/25/2011	2/18/2011	3/10/2011			2/16/2011	3/18/2011	3/21/2011		7/1/2011	3/25/2011
	GRADING PLAN	Drawing	CG-019	1/12/2011	2/25/2011	2/18/2011	3/10/2011			2/16/2011	3/18/2011	3/21/2011		7/1/2011	3/25/2011
	GRADING PLAN	Drawing	CG-020	1/12/2011	2/25/2011	2/18/2011	3/10/2011			2/16/2011	3/18/2011	3/21/2011		7/1/2011	3/25/2011
	GRADING PLAN	Drawing	CG-021	1/12/2011	2/25/2011	2/18/2011	3/10/2011			2/16/2011	3/18/2011	3/21/2011		7/1/2011	3/25/2011
	GRADING PLAN	Drawing	CG-027	1/12/2011	2/25/2011	2/18/2011	3/10/2011			2/16/2011	3/18/2011	3/21/2011		7/1/2011	3/25/2011
	GRADING PLAN	Drawing	CG-028	1/12/2011	2/25/2011	2/18/2011	3/10/2011			2/16/2011	3/18/2011	3/21/2011		7/1/2011	3/25/2011
	GRADING PLAN	Drawing	CG-029	1/12/2011	2/25/2011	2/18/2011	3/10/2011			2/16/2011	3/18/2011	3/21/2011		7/1/2011	3/25/2011
	GRADING PLAN	Drawing	CG-030	1/12/2011	2/25/2011	2/18/2011			3/10/2011	2/16/2011	3/18/2011	3/21/2011		7/1/2011	3/25/2011
	GRADING PLAN	Drawing	CG-035	1/12/2011	2/25/2011	2/18/2011	3/10/2011			2/16/2011	3/18/2011	3/21/2011		7/1/2011	3/25/2011
	GRADING PLAN	Drawing	CG-036	1/12/2011	2/25/2011	2/18/2011	3/10/2011			2/16/2011	3/18/2011	3/21/2011		7/1/2011	
	GRADING PLAN	Drawing	CG-037	1/12/2011	2/25/2011	2/18/2011	3/10/2011			2/16/2011	3/18/2011	3/21/2011		7/1/2011	
	GRADING PLAN	Drawing	CG-043	1/12/2011	2/25/2011	2/18/2011	3/10/2011			2/16/2011	3/18/2011	3/21/2011		7/1/2011	3/25/2011
	GRADING PLAN	Drawing	CG-044	1/12/2011	2/25/2011	2/18/2011	3/10/2011			2/16/2011	3/18/2011	3/21/2011		7/1/2011	3/25/2011
	EROSION CONTROL KEY PLAN	Drawing	CM-008	1/28/2011	1/18/2011	2/18/2011	3/10/2011			3/4/2011	3/18/2011	3/23/2011		5/20/2011	
	EROSION CONTROL KEY PLAN	Drawing	CM-009									3/23/2011		5/6/2011	3/25/2011
	POND & DITCH SECTION	Drawing	CX-001									3/21/2011		5/6/2011	3/30/2011
	~~GRADING PLAN~~	~~Drawing~~	~~CG-022~~	~~1/12/2011~~	~~2/25/2011~~	~~2/18/2011~~			~~3/10/2011~~	~~2/16/2011~~	~~3/18/2011~~	~~3/21/2011~~		5/6/2011	VOID
CIVIL-1-3.1	URS GRADING REVIEW	Letter	URS LETTER			3/28/2011			3/30/2011						
	URS MLGS EARTHWORK	LETTER	URS LETTER			5/31/2011	6/17/2011	6/24/2011	7/1/2011						
CIVIL-1-4.0	MLGS SWPPP		SWPP			3/2/2011	3/11/2011								Reference
CIVIL-1-5.0	TEMPORARY FACILITIES PLAN	Drawing	CS-400	1/12/2011	1/12/2011	2/7/2011		3/9/2011		2/16/2011	3/24/2011	3/30/2011		8/10/2011	9/27/2011

Condition	Title	Deliverable Type	Deliverable No	Target Release Date IFR	Forecast Release Date IFR	ACTUAL SUBMITTAL DATE	CBO COMMENTS	RESUBMITTAL DATE	CBO APPROVED	Target Release Date IFC	Forecast Release IFC	ACTUAL SUBMITTAL DATE	CBO COMMENTS	RESUBMITTAL DATE	CBO APPROVED
CIVIL-1-6.0	COVER SHEET	Drawing	CN-001	1/12/2011	3/10/2011	02/25/11			03/18/11	2/16/2011	3/25/2011	3/25/2011		9/23/2011	03/30/11
	NOTES, ABBREVIATIONS AND LEGENDS	Drawing	CN-002	1/12/2011	3/10/2011	02/25/11			03/18/11	2/16/2011	3/25/2011	3/25/2011		9/23/2011	03/30/11
CIVIL-1-7.0	Earthwork	Specification	901A				3/11/2011			2/9/2011	2/24/2011	2/21/2011		4/19/2011	7/1/2011
	Roads	Specification	902				3/11/2011			2/9/2011	2/28/2011	2/21/2011			3/25/2011
	Storm Drainage	Specification	905							2/8/2011	2/21/2011				3/11/2011
	URS MML EARTHWORK SPEC REVIEW LETTER	LETTER										4/19/2011			7/1/2011
CIVIL-1-7.1	JENSEN PRECAST 5000PSI F!C CONCRETE MIX DESIGN		LOCKFORD 5000PSI			05/19/11		08/12/11							
	JENSEN PRECAST 5000PSI		JENSEN			05/19/11		08/12/11							
	MANHOLE JOINT SEALANT		MANHOLE			05/19/11		08/12/11							
	BOOT CONNECTORS		BOOT			05/19/11		08/12/11							
	48" DIA SDMH #301		ALT BID 48 SDMH			05/19/11		08/12/11							
	N-12 WT IB PIPE (PER ASTM F2648)		ADS N12			05/19/11		08/12/11							
	D&L PART # A-1024		A-1024			05/19/11		08/12/11							
	36X36X36 - REBAR DWG		36 X 36 X 36					08/12/11							
	48 MH 4 INCH REBAR		48 MH 4					08/12/11							
	48" DIA SDMH #302		48 #302					08/12/11							
	DRAIN INLET #303 - STRUCTURE DETAIL DWG		DRAIN INLET					08/12/11							
	DRAINAGE SUBMITTAL DRWGS - MARSH LANDING		DRAINAGE					08/12/11							
	NPC CORE AND SEAL BOOTS		NPC					08/12/11							
	R-3561 F & G		R-3561					08/12/11							
	~~36" DIA SDMH #301~~		~~36 SDMH~~			~~05/19/11~~									
	~~DROP INLETS~~		~~00 DRAIN INLETS~~			~~05/19/11~~									
CIVIL-1-8.0	SITE KEY PLAN	Drawing	CS-001	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		7/1/2011	4/6/2011
	SITE PLAN	Drawing	CS-019	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		7/1/2011	4/6/2011
	SITE PLAN	Drawing	CS-020	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		7/1/2011	4/6/2011
	SITE PLAN	Drawing	CS-021	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		7/1/2011	4/6/2011
	SITE PLAN	Drawing	CS-027	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		7/1/2011	4/6/2011
	SITE PLAN	Drawing	CS-028	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		7/1/2011	4/6/2011
	SITE PLAN	Drawing	CS-029	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		7/1/2011	4/6/2011
	SITE PLAN	Drawing	CS-030	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		7/1/2011	4/6/2011
	SITE PLAN	Drawing	CS-035	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		7/1/2011	4/6/2011
	SITE PLAN	Drawing	CS-036	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		7/1/2011	4/6/2011
	SITE PLAN	Drawing	CS-037	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		7/1/2011	4/6/2011
	SITE PLAN	Drawing	CS-044											7/1/2011	
	SITE DETAILS	Drawing	CD-001	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		5/6/2011	4/6/2011
	SURFACING DETAILS	Drawing	CD-021	1/26/2011	3/10/2011	2/25/2011				3/3/2011	3/25/2011	3/25/2011		5/6/2011	4/6/2011
	FENCING DETAILS	Drawing	CD-006	1/26/2011	3/10/2011					3/3/2011	4/7/2011	3/25/2011			4/6/2011
CIVIL-1-8.1	TYPICAL BIORETENTION FACILITY DETAILS	Drawing	CD-024									5/6/2011		6/28/2011	
~~**CIVIL-1-8.2**~~	~~BOLLARD KEY PLAN~~	~~Drawing~~	~~CM-001~~	~~1/26/2011~~	~~9/2/2011~~					~~3/4/2011~~	~~9/8/2011~~				
	~~BOLLARD PLAN~~	~~Drawing~~	~~CM-002~~		~~9/2/2011~~										
	~~BOLLARD PLAN~~	~~Drawing~~	~~CM-003~~		~~9/2/2011~~										
	~~BOLLARD PLAN~~	~~Drawing~~	~~CM-004~~		~~9/2/2011~~										
	~~BOLLARD PLAN~~	~~Drawing~~	~~CM-005~~		~~9/2/2011~~										
CIVIL-1-9.0	PRE-DEVELOPMENT DRAINAGE PLAN	Drawing	CM-006	1/28/2011	1/18/2011	02/18/11	3/15/2011			3/4/2011	3/18/2011	3/21/2011		9/23/2011	
	POST DEVELOPMENT DRAINAGE PLAN	Drawing	CM-007	1/28/2011	1/18/2011	02/18/11	3/15/2011			3/4/2011	3/18/2011	3/21/2011		9/23/2011	
CIVIL-1-10.0	STORM WATER DETAILS	Drawing	CD-016	1/26/2011	3/10/2011	2/18/2011	3/10/2011			3/3/2011	3/21/2011	3/21/2011		9/23/2011	3/25/2011
	STORM WATER DETAILS	Drawing	CD-017				3/10/2011			3/3/2011	3/21/2011	3/21/2011		9/23/2011	3/25/2011
CIVIL-1-10.1	STORM WATER DETAILS	Drawing	CD-018			09/23/11									
	EXISTING CULVERT TIE-IN EVALUATION	CALC	910R-08			09/29/11									
CIVIL-1-11.0	STORM WATER PLAN	Drawing	CM-013	1/28/2011	1/18/2011	02/18/11	3/15/2011			3/2/2011	3/18/2011	3/21/2011		9/23/2011	
CIVIL-1-12.0	FENCING KEY PLAN	Drawing	CM-018	1/26/2011	03/10/11	2/25/2011			3/10/2011	3/3/2011	3/25/2011			9/23/2011	6/16/2011
CIVIL-1-13.0	SURFACING PLAN	Drawing	CM-023	1/26/2011	03/10/11	2/25/2011	3/15/2011			3/3/2011	3/25/2011	3/25/2011		9/23/2011	
	SURFACING PLAN	Drawing	CM-024									5/6/2011		7/1/2011	

Condition	Title	Deliverable Type	Deliverable No	Target Release Date IFR	Forecast Release Date IFR	ACTUAL SUBMITTAL DATE	CBO COMMENTS	RESUBMITTAL DATE	CBO APPROVED	Target Release Date IFC	Forecast Release IFC	ACTUAL SUBMITTAL DATE	CBO COMMENTS	RESUBMITTAL DATE	CBO APPROVED
CIVIL-1-13.1	TYPICAL BIORETENTION FACILITY DETAILS	Drawing	CD-025									5/20/2011		6/28/2011	
	BIORETENTION FACILITY SURFACING PLAN - FM APPROVAL NECESSARY	Drawing	CM-025									5/20/2011		6/28/2011	
CIVIL-1-14.0	STORM WATER CONTROL PLAN	MISC	C-02			2/18/2011	3/15/2011				3/18/2011	3/23/2011		9/23/2011	
CIVIL-1-15.0	DRAINAGE, EROSION AND SEDIMENT CONTROL PLAN	MISC	012D			2/18/2011	3/15/2011				3/18/2011	3/23/2011		5/27/2011	
CIVIL-4-1.0	FINAL GRADING PLANS														
CIVIL-4-2.0	Final Stormwater Plan														
CIVIL-4-3.0	Final Erosion and Sediment Control Plans														
CIVIL-4-4.0	RESPONSIBLE ENGINEER STATEMENT														
ELEC-1-1.0	ELECTRICAL GROUNDING LAYOUT - AMMONIA STORAGE AREA	Drwg	EG-110	6/25/2011	6/25/2011	7/11/2011			7/25/2011	8/13/2011	8/13/2011	8/16/2011		10/10/2011	9/2/2011
ELEC-1-2.0	ISOPHASE BUS DUCT SPECIFICATIONS	Spec	842A							3/23/2011	3/23/2011	3/23/2011			4/20/2011
ELEC-1-3.0	UNIT AUX TRANSFORMERS	Spec	800B						4/5/2011	6/1/2011	6/1/2011				REFERENCE
ELEC-1-3.1	4160V & 480V SWGR & MCCs; ELECTRICAL ENCLOSURE SPECIFICATIONS	Spec	830			3/28/2011				6/1/2011	6/1/2011				REFERENCE
ELEC-1-4.0	ELECTRICAL GROUNDING LAYOUT - INSTALLATION DETAILS	Drwg	EG-900	6/25/2011	6/25/2011	6/6/2011			6/15/2011	8/13/2011	8/13/2011	8/5/2011			8/10/2011
	ELECTRICAL GROUNDING LAYOUT - INSTALLATION DETAILS	Drwg	EG-901	6/25/2011	6/25/2011	6/6/2011			6/15/2011	8/13/2011	8/13/2011	8/5/2011			8/10/2011
	ELECTRICAL GROUNDING LAYOUT - INSTALLATION DETAILS	Drwg	EG-902	6/25/2011	6/25/2011					8/13/2011	8/13/2011	8/16/2011			
ELEC-1-4.1	ELECTRICAL GROUNDING LAYOUT - SCR CTG 1 AND 2 AREAS	Drwg	EG-220	6/25/2011	5/31/2011	07/11/11			7/25/2011	8/13/2011	8/13/2011	8/16/2011			9/2/2011
	ELECTRICAL GROUNDING LAYOUT - SCR CTG 2 AND 3 AREAS	Drwg	EG-230	6/25/2011	5/31/2011	07/11/11			7/25/2011	8/13/2011	8/13/2011	8/16/2011			9/2/2011
	ELECTRICAL GROUNDING LAYOUT- SCR AND CTG 4 AREA	Drwg	EG-240			07/11/11			7/25/2011			8/16/2011			9/2/2011
ELEC-1-5.0	ELECTRICAL COMMODITY SPECIFICATION	Spec	805	7/22/2011	4/13/2011	4/13/2011			5/5/2011						REFERENCE
ELEC-1-6.0	ELECTRICAL HAZARDOUS AREA CLASSIFICATION OVERALL PLAN	Drwg	EA-001	6/24/2011	6/24/2011	6/24/2011	7/12/2011			7/29/2011	7/29/2011	8/5/2011	8/26/2011	8/29/2011	
ELEC-1-7.0	ELECTRICAL GROUNDING LAYOUT SITE KEY PLAN	Drwg	EG-001	6/25/2011	6/25/2011	6/6/2011	6/15/2011			8/13/2011	8/13/2011	8/5/2011			
	ELECTRICAL GROUNDING SITE GROUNDING GRID LAYOUT	Drwg	EG-002	6/25/2011	6/25/2011	6/6/2011	6/15/2011			8/13/2011	8/13/2011	8/5/2011			
ELEC-1-8.0	GROUNDING ANALYSIS	Task	868	6/24/2011											
ELEC-1-8.1	GROUNDING SYSTEM CALC	Calc				5/24/2011			6/7/2011						
ELEC-1-9.0	ELECTRICAL EMBEDDED CONDUIT LAYOUT SITE KEY PLAN	Drwg	EC-001	6/25/2011	6/25/2011					8/13/2011	8/13/2011	7/15/2011		8/31/2011	9/8/2011
	ELECTRICAL EMBEDDED CONDUIT LAYOUT TYPICAL CTG CONDUIT ELEVATION 14'-9"	Drwg	EC-960A	6/25/2011	6/25/2011					8/13/2011	8/13/2011	7/15/2011		9/22/2011	9/27/2011
	ELECTRICAL EMBEDDED CONDUIT LAYOUT TYPICAL CTG CONDUIT ELEVATION 14'-2"		EC-960B									7/15/2011		9/22/2011	9/27/2011
	ELECTRICAL EMBEDDED CONDUIT LAYOUT TYPICAL CTG CONDUIT ELEVATION 13'-7"		EC-960C									7/15/2011		9/22/2011	9/27/2011
	ELECTRICAL EMBEDDED CONDUIT LAYOUT TYPICAL CTG CONDUIT ELEVATION 11'-0", 10'-4 1/2" AND 9'-9"		EC-960D									7/15/2011		9/22/2011	9/27/2011
ELEC-1-9.1	ELECTRICAL EMBEDDED CONDUIT LAYOUT WATER TREATMENT AREA	DRWG	EC-020			8/31/2011						8/31/2011			9/8/2011
ELEC-1-10.0	BATTERY & UPS SPECIFICATIONS	Spec	853							9/7/2011	9/7/2011				
ELEC-1-11.0	ELECTRICAL LEGEND	Drwg	EE-001	9/28/2011	9/28/2011					12/30/2011	12/30/2011	6/3/2011		10/10/2011	6/15/2011
ELEC-1-11.1	ELECTRICAL GROUNDING LAYOUT - ADMINISTRATION CONTROL BUILDING AREA	Drwg	EG-120	6/25/2011	6/25/2011	7/11/2011			7/25/2011	9/24/2011		8/16/2011		10/10/2011	9/2/2011
	ELECTRICAL GROUNDING LAYOUT - WATER TREATMENT AREA	Drwg	EG-020	6/25/2011	6/25/2011	7/11/2011			7/25/2011	9/24/2011		8/16/2011		10/10/2011	9/2/2011

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ELEC-1-11.2	ELECTRICAL LEGEND FOR ONE LINE DIAGRAMS	Drwg	EE-002	9/28/2011	9/28/2011					12/30/2011	12/30/2011				
ELEC-1-12.0	OVERALL ONE-LINE DIAGRAM	Drwg	EO-001	9/28/2011						12/30/2011	12/30/2011				
ELEC-1-12.1	METERING AND RELAYING ONE-LINE DIAGRAM GAS TURBINE GENERATOR UNIT 01	Drwg	EO-002	9/28/2011	9/28/2011	5/13/2011			5/20/2011	12/30/2011	12/30/2011				
	METERING AND RELAYING ONE-LINE DIAGRAM GAS TURBINE GENERATOR UNIT 02	Drwg	EO-003	9/28/2011	9/28/2011	5/13/2011			5/20/2011	12/30/2011	12/30/2011				
	METERING AND RELAYING ONE-LINE DIAGRAM GAS TURBINE GENERATOR UNIT 03	Drwg	EO-004	9/28/2011	9/28/2011	5/13/2011			5/20/2011	12/30/2011	12/30/2011				
	METERING AND RELAYING ONE-LINE DIAGRAM GAS TURBINE GENERATOR UNIT 04	Drwg	EO-005	9/28/2011	9/28/2011	5/13/2011			5/20/2011	12/30/2011	12/30/2011				
	METERING AND RELAYING ONE-LINE DIAGRAM UNIT AUXILIARY TRANSFORMERS 01 AND 02	Drwg	EO-006	9/28/2011	9/28/2011	5/13/2011			5/20/2011	12/30/2011	12/30/2011				
ELEC-1-12.2	ELECTRICAL ONE-LINE DIAGRAM SWGR-5KV-001	Drwg	EO-007	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE-LINE DIAGRAM MCC-5KV-001A	Drwg	EO-008	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE-LINE DIAGRAM MCC-5KV-001B	Drwg	EO-009	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE LINE DIAGRAM MV SWITCHGEAR/MCC O-5KV-SWG-02	Drwg	EO-011A	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE LINE DIAGRAM MV SWITCHGEAR/MCC O-5KV-SWG-02	Drwg	EO-011B	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE LINE DIAGRAM MV SWITCHGEAR/MCC O-5KV-SWG-02	Drwg	EO-011C	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE LINE DIAGRAM 480V SWITCHBOARD O-BOP-SWBD-11 & 0-BOP-SWBD-21	Drwg	EO-012	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE LINE DIAGRAM 480V SWITCHBOARD O-BOP-SWBD-12 & 0-BOP-SWBD-22	Drwg	EO-013	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE LINE DIAGRAM LV MOTOR CONTROL CENTER O-BOP-MCC-121	Drwg	EO-014A	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE LINE DIAGRAM LV MOTOR CONTROL CENTER O-BOP-MCC-121	Drwg	EO-014B	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE LINE DIAGRAM LV MOTOR CONTROL CENTER O-BOP-MCC-221	Drwg	EO-015A	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE LINE DIAGRAM LV MOTOR CONTROL CENTER O-BOP-MCC-221	Drwg	EO-015B	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE LINE DIAGRAM SWITCHBOARD 11/21 PANELBOARD SCHEDULE	Drwg	EO-016	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE LINE DIAGRAM SWITCHBOARD 12/22 PANELBOARD SCHEDULE	Drwg	EO-017	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE-LINE DIAGRAM 480V MCC-CTG-401	Drwg	EO-018	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE-LINE DIAGRAM 480V MCC-CTG-402	Drwg	EO-019	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE-LINE DIAGRAM 480V MCC-WT-001A	Drwg	EO-020	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE-LINE DIAGRAM 480V MCC-WT-001B	Drwg	EO-021	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE-LINE DIAGRAM 480V MCC-BOP-001A	Drwg	EO-022	9/28/2011						12/30/2011	12/30/2011				
	ELECTRICAL ONE-LINE DIAGRAM 480V MCC-BOP-001B	Drwg	EO-023	9/28/2011						12/30/2011	12/30/2011				
ELEC-1-13.0	ELECTRICAL GROUNDING LAYOUT - RAW WATER STORAGE AREA	Drwg	EG-010	6/25/2011	6/25/2011					11/15/2011	8/13/2011	8/16/2011		10/10/2011	9/2/2011
	ELECTRICAL GROUNDING LAYOUT - FUEL GAS COMPRESSORS	Drwg	EG-030	6/25/2011	6/25/2011	7/11/2011				11/15/2011	8/13/2011	8/16/2011		10/10/2011	9/2/2011
	ELECTRICAL GROUNDING LAYOUT - FUEL GAS STACK 2 AND 3 AREAS	Drwg	EG-130	6/25/2011	6/25/2011	7/11/2011				11/15/2011	8/13/2011	8/16/2011			9/2/2011
	ELECTRICAL GROUNDING LAYOUT- STACK 4 AND YARD AREA	Drwg	EG-140			7/11/2011						8/16/2011			9/2/2011
ELEC-1-14.0	~~ELECTRICAL GROUNDING LAYOUT - GSU 101 AREA~~	~~Drwg~~	~~EG-310~~	~~6/25/2011~~	~~6/25/2011~~										
	ELECTRICAL GROUNDING LAYOUT - GSU 1 AND 2 AND SWITCHYARD AREA	Drwg	EG-320	10/29/2011	6/25/2011	7/11/2011			7/25/2011	8/13/2011	8/13/2011	8/16/2011			9/2/2011
	ELECTRICAL GROUNDING LAYOUT - AUX TRANSFORMER GSU 3 AND SWITCHYARD AREA	Drwg	EG-330	10/29/2011	6/25/2011	7/11/2011			7/25/2011	8/13/2011	8/13/2011	8/16/2011			9/2/2011
	ELECTRICAL GROUNDING LAYOUT- GSU 4 AND SWITCHYARD AREA	Drwg	EG-340			7/11/2011			7/25/2011			8/16/2011			9/2/2011
ELEC-1-15.0	ELECTRICAL LIGHTNING PROTECTION SITE KEY PLAN	Drwg	EGL-001	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - YARD AREA	Drwg	EGL-010	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - ADMIN BUILDING AREA	Drwg	EGL-020	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - YARD AREA	Drwg	EGL-030	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - AMMONA STORAGE AREA	Drwg	EGL-110	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - WATER TREATMENT AREA	Drwg	EGL-120	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - YARD AREA	Drwg	EGL-130	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - CTG 101 AREA	Drwg	EGL-210	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - CTG 101/201 AREA	Drwg	EGL-220	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - CTG 301/404 AREA	Drwg	EGL-230	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - GSU 101 AREA	Drwg	EGL-310	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - GSU 201/SWITCHYARD AREA	Drwg	EGL-320	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - GSU 301/401/SWITCHYARD AREA	Drwg	EGL-330	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - DEAD END TOWER AREA	Drwg	EGL-440	2/3/2012	2/3/2012					3/9/2012	3/9/2012				

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	ELECTRICAL LIGHTNING PROTECTION LAYOUT - DEAD END TOWER AREA	Drwg	EGL-450	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - INSTALLATION DETAILS	Drwg	EGL-900	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - INSTALLATION DETAILS	Drwg	EGL-901	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
	ELECTRICAL LIGHTNING PROTECTION LAYOUT - INSTALLATION DETAILS	Drwg	EGL-902	2/3/2012	2/3/2012					3/9/2012	3/9/2012				
ELEC-1-16.0															
	ELECTRICAL LIGHTING SITE KEY PLAN	Drwg	EL-001	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING SITE LIGHTING LAYOUT	Drwg	EL-002	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - YARD AREA	Drwg	EL-010	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - WATER TREATMENT AREA	Drwg	EL-020	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - YARD AREA	Drwg	EL-030	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - AMMONA STORAGE AREA	Drwg	EL-110	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - ADMINISTRATION BUILDING AREA	Drwg	EL-120	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - YARD AREA	Drwg	EL-130	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - CTG 101 AREA	Drwg	EL-210	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - CTG 101/201 AREA	Drwg	EL-220	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - CTG 301/404 AREA	Drwg	EL-230	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - GSU 101 AREA	Drwg	EL-310	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - GSU 201/SWITCHYARD AREA	Drwg	EL-320	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - GSU 301/401/SWITCHYARD AREA	Drwg	EL-330	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - DEAD END TOWER AREA	Drwg	EL-440	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - DEAD END TOWER AREA	Drwg	EL-450	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - LUMINAIRE SCHEDULE	Drwg	EL-900	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - INSTALLATION DETAILS	Drwg	EL-901	2/4/2012	2/4/2012					2/1/2012					
	ELECTRICAL LIGHTING LAYOUT - INSTALLATION DETAILS	Drwg	EL-902	2/4/2012	2/4/2012					2/1/2012					
ELEC-1-17.0	ELECTRICAL DUCT BANK LAYOUT SITE KEY PLAN	Drwg	ED-001			6/6/2011			6/15/2011			8/3/2011			8/10/2011
	ELECTRICAL DUCT BANK LAYOUT - YARD AREA	Drwg	ED-010			6/6/2011			6/15/2011			8/3/2011		8/30/2011	9/8/2011
	ELECTRICAL DUCT BANK LAYOUT - WATER TREATMENT AREA	Drwg	ED-020			6/6/2011			6/15/2011			8/3/2011		8/30/2011	9/8/2011
	ELECTRICAL DUCT BANK LAYOUT - YARD AREA	Drwg	ED-030			6/6/2011			6/15/2011			8/3/2011		8/30/2011	9/8/2011
	ELECTRICAL DUCT BANK LAYOUT - AMMONA STORAGE AREA	Drwg	ED-110			6/6/2011			6/15/2011			8/3/2011		8/30/2011	9/8/2011
	ELECTRICAL DUCT BANK LAYOUT ADMINISTRATION AND CONTROL BUILDINGS, STACKS 1 AND 2	Drwg	ED-120			6/6/2011			6/15/2011			8/3/2011		8/30/2011	9/8/2011
	ELECTRICAL DUCT BANK LAYOUT FUEL GAS AND STACKS 2 AND 3 AREAS	Drwg	ED-130			6/6/2011			6/15/2011			8/3/2011		8/30/2011	9/8/2011
	ELECTRICAL DUCT BANK LAYOUT STACK 4 AND YARD AREA	DWG	ED-140			6/6/2011			6/15/2011			8/3/2011		8/30/2011	9/8/2011
	ELECTRICAL DUCT BANK LAYOUT GSU 1 AND 2 AND SWITCHYARD AREA	Drwg	ED-320			6/6/2011			6/15/2011			8/12/2011		9/8/2011	9/21/2011
	ELECTRICAL DUCT BANK LAYOUT GSU 2 AND 3 AND SWITCHYARD AREA	Drwg	ED-330			6/6/2011			6/15/2011			8/12/2011		9/8/2011	9/21/2011
	ELECTRICAL DUCT BANK LAYOUT GSU 4 AND SWITCHYARD AREA	DWG	ED-340			6/6/2011			6/15/2011			8/12/2011		9/8/2011	9/21/2011
	ELECTRICAL DUCT BANK DETAILS	Drwg	ED-900			6/6/2011			6/15/2011			8/12/2011			9/8/2011
	ELECTRICAL DUCT BANK DETAILS	Drwg	ED-901			6/6/2011			6/15/2011			8/3/2011			8/10/2011
	ELECTRICAL DUCT BANK DETAILS SFC/SEE PACKAGE 01 AND 02	Drwg	ED-902			6/6/2011			6/15/2011			8/12/2011			9/8/2011
	ELECTRICAL DUCT BANK DETAILS SFC/SEE PACKAGE 03 AND 04	Drwg	ED-903			6/6/2011			6/15/2011			8/12/2011			9/8/2011
	ELECTRICAL DUT BANK LAYOUT FUEL GAS COMPRESSOR AREA	Drwg	ED-904									8/3/2011			8/10/2011
ELEC-1-17.1	ELECTRICAL DUCT BANK LAYOUT WELL PUMP AREA	Drwg	ED-002			4/14/2011	5/5/2011					5/11/2011	6/15/2011	6/3/2011	7/1/2011
ELEC-1-17.2	ELECTRICAL DUCT BANK LAYOUT GAS METERING AREA	Drwg	ED-003			04/19/11						05/18/11		08/12/11	09/08/11
ELEC-1-17.3	ELECTRICAL DUCT BANK LAYOUT - CTG 1 AND 2 AREA	Drwg	ED-220		5/31/2011	6/6/2011			6/15/2011			8/3/2011		8/30/2011	9/8/2011
	ELECTRICAL DUCT BANK LAYOUT - CTG 3 AND 4 AREA	Drwg	ED-230		5/31/2011	6/6/2011			6/15/2011			8/3/2011		8/30/2011	9/8/2011
	ELECTRICAL DUCT BANK LAYOUT- SCR/CTG 4 AREA	DWG	ED-240			06/06/11			6/15/2011			8/3/2011		8/30/2011	9/8/2011
ELEC-1-17.4	ELECTRICAL DUCT BANK LAYOUT - DEAD END TOWER AREA	Drwg	ED-440												
	ELECTRICAL DUCT BANK LAYOUT - DEAD END TOWER AREA	Drwg	ED-450												
~~**ELEC-1-17.5**~~	~~ELECTRICAL DUCT BANK LAYOUT - GSU 1 AREA~~	~~Drwg~~	~~ED-310~~												
MECH-1-1.0	LINE LIST	Misc	075B							08/19/11	08/19/11				
MECH-1-2.0	PIPE CODE	Misc	075F							08/19/11	08/19/11				
MECH-1-3.0	FIRE PROTECTION SYSTEM	Spec	530							10/15/11	10/15/11				
MECH-1-4.0	UG FIREWATER LOOP	Spec	531							07/27/11	08/03/11	9/12/2011			9/21/2011

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MECH-1-5.0	MECHANICAL COMMODITIES	TSpc	600		3/28/2011	3/28/2011			04/05/11	08/24/11	04/25/11	04/25/11			REFERENCE
MECH-1-5.1	WELL WATER PUMPS	Spec	565		4/11/2011	3/30/2011	4/20/2011				05/09/11				REFERENCE
MECH-1-6.0	SMALL BORE FABRICATION ISOMETRIC AQUEOUS AMMONIA	Drwg	AQA500-1							12/08/11	12/08/11				
	SMALL BORE FABRICATION ISOMETRIC AQUEOUS AMMONIA	Drwg	AQA501-1							12/08/11	12/08/11				
	SMALL BORE FABRICATION ISOMETRIC AQUEOUS AMMONIA	Drwg	AQA502-1							12/08/11	12/08/11				
	SMALL BORE FABRICATION ISOMETRIC AQUEOUS AMMONIA	Drwg	AQA503-1							12/08/11	12/08/11				
	SMALL BORE FABRICATION ISOMETRIC AQUEOUS AMMONIA	Drwg	AQA504-1							12/08/11	12/08/11				
	SMALL BORE FABRICATION ISOMETRIC AQUEOUS AMMONIA	Drwg	AQA505-1							12/08/11	12/08/11				
	SMALL BORE FABRICATION ISOMETRIC AQUEOUS AMMONIA	Drwg	AQA506-1							12/08/11	12/08/11				
	SMALL BORE FABRICATION ISOMETRIC AQUEOUS AMMONIA	Drwg	AQA507-1							12/08/11	12/08/11				
	SMALL BORE FABRICATION ISOMETRIC AQUEOUS AMMONIA	Drwg	AQA508-1							12/08/11	12/08/11				
	SMALL BORE FABRICATION ISOMETRIC AQUEOUS AMMONIA	Drwg	AQA509-1							12/08/11	12/08/11				
MECH-1-7.0	MECHANICAL UNDERGROUND BUILDING PIPING CONTROL ROOM AND WAREHOUSE	Drwg	BP-001A	07/27/11	07/27/11					09/07/11	09/07/11				
	MECHANICAL UNDERGROUND BUILDING PIPING WATER TREATMENT	Drwg	BP-002A	07/27/11	07/27/11					09/07/11	09/07/11				
MECH-1-8.0	LARGE BORE FABRICATION ISOMETRIC COMBUSTION TURBINE PIPING	Drwg	1CTP1013	08/25/11	08/25/11					09/27/11	09/27/11				
	LARGE BORE FABRICATION ISOMETRIC COMBUSTION TURBINE PIPING	Drwg	2CTP2013	08/25/11	08/25/11					09/27/11	09/27/11				
	LARGE BORE FABRICATION ISOMETRIC COMBUSTION TURBINE PIPING	Drwg	3CTP3013	08/25/11	08/25/11					09/27/11	09/27/11				
	LARGE BORE FABRICATION ISOMETRIC COMBUSTION TURBINE PIPING	Drwg	4CTP4013	08/25/11	08/25/11					09/27/11	09/27/11				
	LARGE BORE FABRICATION ISOMETRIC COMBUSTION TURBINE PIPING	Drwg	0CTP6001	08/25/11	08/25/11					09/27/11	09/27/11				
	LARGE BORE FABRICATION ISOMETRIC COMBUSTION TURBINE PIPING	Drwg	0CTP6017	08/25/11	08/25/11					09/27/11	09/27/11				
	LARGE BORE FABRICATION ISOMETRIC COMBUSTION TURBINE PIPING	Drwg	0CTP6018	08/25/11	08/25/11					09/27/11	09/27/11				
	LARGE BORE FABRICATION ISOMETRIC COMBUSTION TURBINE PIPING	Drwg	0CTP6052	08/25/11	08/25/11					09/27/11	09/27/11				
MECH-1-9.0	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP500-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP501-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP502-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP503-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP504-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP505-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP506-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP507-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP508-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP509-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP510-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP511-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP512-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP513-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP514-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP515-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP516-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP517-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP518-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP519-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP520-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP521-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP522-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP523-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP524-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP525-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP526-1							12/06/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC CTP - COMBUSTION TURBINE PIPING	Drwg	CTP527-1							12/06/11	12/06/11				
MECH-1-10.0	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS100-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS101-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS102-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS103-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS104-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS105-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS106-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS107-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS108-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS109-1	11/11/11	11/11/11					12/14/11	12/14/11				

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	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS110-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS111-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS112-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS113-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS114-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS115-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS116-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS117-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS118-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS119-1	11/11/11	11/11/11					12/14/11	12/14/11				
MECH-1-11.0	SMALL BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS500-1							12/16/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS501-1							12/16/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS502-1							12/16/11	12/06/11				
	SMALL BORE FABRICATION ISOMETRIC DWS - DEMINERALIZED WATER	Drwg	DWS503-1							12/16/11	12/06/11				
MECH-1-12.0	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT100-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT101-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT102-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT103-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT104-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT105-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT106-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT107-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT108-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT109-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT110-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT111-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT112-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT113-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT114-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT115-1	11/11/11	11/11/11					12/14/11	12/14/11				
	LARGE BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT116-1	11/11/11	11/11/11					12/14/11	12/14/11				
MECH-1-13.0	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT500-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT501-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT502-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT503-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT504-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT505-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT506-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT507-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT508-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT509-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT510-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT511-1							12/20/11	12/20/11				

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	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT512-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT513-1							12/20/11	12/20/11				
	SMALL BORE FABRICATION ISOMETRIC DWT - DEMINERALIZED WATER TREATMENT	Drwg	DWT514-1							12/20/11	12/20/11				
MECH-1-14.0	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG100-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG101-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG102-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG103-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG104-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG105-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG106-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG107-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG108-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG109-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG110-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG111-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG112-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG113-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG114-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG115-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG116-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG117-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG118-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG119-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG120-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG121-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG122-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG123-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG124-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG125-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG126-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG127-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG128-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG129-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG130-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG131-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG132-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG133-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG134-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG135-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG136-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG137-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG138-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG139-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG140-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG141-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG142-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG143-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG144-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG145-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG146-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG147-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG148-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG149-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG150-1	10/13/11	10/13/11					11/15/11	11/15/11				
	LARGE BORE FABRICATION ISOMETRIC FLG - FUEL GAS	Drwg	FLG151-1	10/13/11	10/13/11					11/15/11	11/15/11				
MECH-1-15.0	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG500-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG501-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG502-1							12/10/11	12/10/11				

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	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG503-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG504-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG505-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG506-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG507-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG508-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG509-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG510-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG511-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG512-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG513-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG514-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG515-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG516-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG517-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG518-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG519-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG520-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG521-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG522-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG523-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG524-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG525-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG526-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG527-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG528-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG529-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG530-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG531-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG532-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG533-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG534-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG535-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG536-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG537-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG538-1							12/10/11	12/10/11				
	SMALL BORE FABRICATION ISOMETRIC FLG - FUEL GAS PIPING	Drwg	FLG539-1							12/10/11	12/10/11				
MECH-1-16.0	LARGE BORE FABRICATION ISOMETRIC FPS - FIRE PROTECTION PIPING	Drwg	FPS100-1	08/16/11	08/16/11					09/19/11	09/19/11				
	LARGE BORE FABRICATION ISOMETRIC FPS - FIRE PROTECTION PIPING	Drwg	FPS101-1	08/16/11	08/16/11					09/19/11	09/19/11				
	LARGE BORE FABRICATION ISOMETRIC FPS - FIRE PROTECTION PIPING	Drwg	FPS102-1	08/16/11	08/16/11					09/19/11	09/19/11				
	LARGE BORE FABRICATION ISOMETRIC FPS - FIRE PROTECTION PIPING	Drwg	FPS103-1	08/16/11	08/16/11					09/19/11	09/19/11				
	LARGE BORE FABRICATION ISOMETRIC FPS - FIRE PROTECTION PIPING	Drwg	FPS104-1	08/16/11	08/16/11					09/19/11	09/19/11				
	LARGE BORE FABRICATION ISOMETRIC FPS - FIRE PROTECTION PIPING	Drwg	FPS105-1	08/16/11	08/16/11					09/19/11	09/19/11				
	LARGE BORE FABRICATION ISOMETRIC FPS - FIRE PROTECTION PIPING	Drwg	FPS106-1	08/16/11	08/16/11					09/19/11	09/19/11				
	LARGE BORE FABRICATION ISOMETRIC FPS - FIRE PROTECTION PIPING	Drwg	FPS107-1	08/16/11	08/16/11					09/19/11	09/19/11				
MECH-1-17.0	GENERAL ARRANGEMENT KEYPLAN	Drwg	GA-000	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-020	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-060	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-070	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-080	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-090	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-100	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-110	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-120	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-130	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-140	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-150	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-160	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-170	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-180	09/24/11	09/24/11					11/05/11	11/05/11				

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	GENERAL ARRANGEMENT	Drwg	GA-280	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-290	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-300	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-310	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-320	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-330	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-340	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-350	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-360	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-370	09/24/11	09/24/11					11/05/11	11/05/11				
	GENERAL ARRANGEMENT	Drwg	GA-380	09/24/11	09/24/11					11/05/11	11/05/11				
MECH-1-18.0	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA100-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA101-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA102-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA103-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA104-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA105-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA106-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA107-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA108-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA109-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA110-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA111-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA112-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA113-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA114-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA115-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA116-1	09/13/11	09/13/11					10/17/11	10/17/11				
	LARGE BORE FABRICATION ISOMETRIC INA - INSTRUMENT AIR	Drwg	INA117-1	09/13/11	09/13/11					10/17/11	10/17/11				
MECH-1-19.0	MECHANICAL STANDARD PIPING LEGEND	Drwg	LG-001	07/26/11	07/26/11					09/06/11	09/06/11	5/12/2011		8/16/2011	5/24/2011
	MECHANICAL DETAILS VENTS & DRAINS	Drwg	MD-110	07/26/11	07/26/11					09/06/11	09/06/11				
MECH-1-20.0	MECHANICAL UNDERGROUND PIPING DETAILS	Drwg	MD-001	07/26/11	07/26/11	4/12/2011	5/5/2011			09/06/11	09/06/11	5/12/2011		5/17/2011	5/24/2011
MECH-1-20.1	MECHANICAL UNDERGROUND PIPING DETAILS	Drwg	MD-002	07/26/11	07/26/11					09/06/11	09/06/11				
MECH-1-21.0	MECHANICAL ABOVE GROUND PIPING DETAILS	Drwg	MD-100	11/10/11	11/10/11					01/20/12	01/20/12				
MECH-1-22.0	MECHANICAL STANDARD COLD PIPE SUPPORT DETAILS LATERAL SEISMIC FORCE = 0.4 DEAD LOAD	Drwg	MD-210	11/10/11	11/10/11	9/19/2011				01/20/12	01/20/12				
	MECHANICAL STANDARD COLD PIPE SUPPORT DETAILS LATERAL SEISMIC FORCE = 0.4 DEAD LOAD	Drwg	MD-211	11/10/11	11/10/11	9/19/2011				01/20/12	01/20/12				
	MECHANICAL STANDARD COLD PIPE SUPPORT DETAILS LATERAL SEISMIC FORCE = 0.4 DEAD LOAD	Drwg	MD-212	11/10/11	11/10/11	9/19/2011				01/20/12	01/20/12				
	MECHANICAL STANDARD COLD PIPE SUPPORT DETAILS LATERAL SEISMIC FORCE = 0.4 DEAD LOAD	Drwg	MD-213	11/10/11	11/10/11	9/19/2011				01/20/12	01/20/12				
	MECHANICAL STANDARD COLD PIPE SUPPORT DETAILS LATERAL SEISMIC FORCE = 0.4 DEAD LOAD	Drwg	MD-214	11/10/11	11/10/11	9/19/2011				01/20/12	01/20/12				
MECH-1-23.0	MECHANICAL STANDARD COLD SMALL BORE PIPE SUPPORT DETAILS	Drwg	MD-220	11/10/11	11/10/11	9/19/2011				01/20/12	01/20/12				
MECH-1-24.0	PLOT PLAN (REFERENCE)	Drwg	PP-001			6/24/2011			7/1/2011	02/18/11	2/18/2011				
MECH-1-25.0	PIPING AND INSTRUMENTATION DIAGRAM KPE DRAWING INDEX	Drwg	PS-000			7/7/2011			7/25/2011	08/19/11	08/19/11				
	~~PIPING AND INSTRUMENTATION DIAGRAM KPE DRAWING INDEX~~	~~Drwg~~	~~PS-001~~			~~7/7/2011~~				~~08/19/11~~	~~08/19/11~~				
MECH-1-26.0	PIPING AND INSTRUMENTATION DIAGRAM DRAWING LEGEND	Drwg	PS-010	06/10/11		7/7/2011			7/25/2011	08/19/11					
	PIPING AND INSTRUMENTATION DIAGRAM DRAWING LEGEND	Drwg	PS-011	06/10/11		7/7/2011			7/25/2011	08/19/11					
MECH-1-27.0	PIPING AND INSTRUMENTATION DIAGRAM CTP - MISCELLANEOUS COMBUSTION TURBINE PIPING	Drwg	PS-330	05/19/11	05/19/11	7/7/2011			7/25/2011	07/28/11	07/28/11				
	PIPING AND INSTRUMENTATION DIAGRAM CTP - MISCELLANEOUS COMBUSTION TURBINE PIPING	Drwg	PS-331	05/19/11	05/19/11	7/7/2011			7/25/2011	07/28/11	07/28/11				
	PIPING AND INSTRUMENTATION DIAGRAM CTP - MISCELLANEOUS COMBUSTION TURBINE PIPING	Drwg	PS-332	05/19/11	05/19/11	7/7/2011			7/25/2011	07/28/11	07/28/11				

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	PIPING AND INSTRUMENTATION DIAGRAM CTP - MISCELLANEOUS COMBUSTION TURBINE PIPING	Drwg	PS-333	05/19/11	05/19/11	7/7/2011			7/25/2011	07/28/11	07/28/11				
MECH-1-27.1	GAS TURBINE AXULIARIES P AND ID	V Drwg	201-PD-0002-01			7/8/2011			7/29/2011						
	ENGINEERING SPECIFICATION CUSTOMER PIPING CONNECTION PROCESS INFORMATION	V Drwg	201-SP-0014-001			7/8/2011			7/29/2011						
	CT DRAIN TANK DETAIL DRAWING	V Drwg	441-ME-0004-01			7/8/2011			7/29/2011						
MECH-1-28.0	PIPING AND INSTRUMENTATION DIAGRAM RWS - RAW WATER	Drwg	PS-360	05/25/11	05/25/11	7/7/2011	7/28/2011			08/03/11	08/03/11				
MECH-1-28.1	RAW WATER GENERAL ARRANGEMENT DRAWING	V Drwg	550-GA-0003-01			7/7/2011			7/28/2011						
MECH-1-29.0	PIPING AND INSTRUMENTATION DIAGRAM SWT - SERVICE WATER TREATMENT	Drwg	PS-375	05/25/11	05/25/11	7/7/2011			7/25/2011	08/03/11	08/03/11				
	PIPING AND INSTRUMENTATION DIAGRAM SWT - SERVICE WATER TREATMENT	Drwg	PS-376	05/25/11	05/25/11	7/7/2011			7/25/2011	08/03/11	08/03/11				
	PIPING AND INSTRUMENTATION DIAGRAM SWT - SERVICE WATER TREATMENT	Drwg	PS-377	05/25/11	05/25/11	7/7/2011			7/25/2011	08/03/11	08/03/11				
MECH-1-29.1	PROCESS AND INSTRUMENTATION DIAGRAM UF FEED SKID	V Drwg	401-PD-0001-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM UF BREAK TANK	V Drwg	401-PD-0005-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM UF FORWARDING SKID	V Drwg	401-PD-0007-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM REVERSE OSMOSIS UNITS	V Drwg	401-PD-0009-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM UF BACKWASH SKID	V Drwg	401-PD-0006-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM UF MAIN SKID	V Drwg	401-PD-0002-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM UF MODULE RACK B	V Drwg	401-PD-0004-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM UF CIP SKID	V Drwg	401-PD-0008-01			7/7/2011			7/25/2011						
	PID SDS NO 7	V Drwg	560-PD-0003-01			7/7/2011			7/25/2011						
	RAW WATER GENERAL ARRANGEMENT DRAWING	V Drwg	550-GA-0003-01			7/7/2011			7/25/2011						
MECH-1-30.0	PIPING AND INSTRUMENTATION DIAGRAM SWS - SERVICE WATER	Drwg	PS-390	05/05/11	05/05/11	7/7/2011			7/25/2011	07/14/11	07/14/11				
	PIPING AND INSTRUMENTATION DIAGRAM SWS - SERVICE WATER	Drwg	PS-391	05/05/11	05/05/11	7/7/2011			7/25/2011	07/14/11	07/14/11				
MECH-1-30.1	PID SDS NO 7	V Drwg	560-PD-0004-01			7/7/2011			7/25/2011						
MECH-1-31.0	PIPING AND INSTRUMENTATION DIAGRAM PWS - POTABLE WATER	Drwg	PS-400	05/05/11	05/05/11	7/7/2011			7/25/2011	07/14/11	07/14/11				
MECH-1-32.0	PIPING AND INSTRUMENTATION DIAGRAM DWS - DEMINERALIZED WATER	Drwg	PS-410	05/25/11	05/25/11	7/7/2011			7/25/2011	08/03/11	08/03/11				
MECH-1-32.1	DEMIN TANK	V Drwg	401-ME-0019-001			7/7/2011			7/28/2011						
	PID SDS NO 7	V Drwg	560-PD-0001-01			7/7/2011			7/28/2011						
MECH-1-33.0	PIPING AND INSTRUMENTATION DIAGRAM FPS - FIRE PROTECTION	Drwg	PS-470	05/12/11	05/12/11	7/7/2011			7/25/2011	07/21/11	07/21/11				
MECH-1-34.0	PIPING AND INSTRUMENTATION DIAGRAM WCF - WATER TREATMENT CHEMICAL FEED	Drwg	PS-540	05/25/11	05/25/11	7/7/2011			7/25/2011	08/03/11	08/03/11				
	PIPING AND INSTRUMENTATION DIAGRAM WCF - WATER TREATMENT CHEMICAL FEED	Drwg	PS-541	05/25/11	05/25/11	7/7/2011			7/25/2011	08/03/11	08/03/11				
	PIPING AND INSTRUMENTATION DIAGRAM WCF - WATER TREATMENT CHEMICAL FEED	Drwg	PS-542	05/25/11	05/25/11	7/7/2011			7/25/2011	08/03/11	08/03/11				
	PIPING AND INSTRUMENTATION DIAGRAM WCF - WATER TREATMENT CHEMICAL FEED	Drwg	PS-543	05/25/11	05/25/11	7/7/2011			7/25/2011	08/03/11	08/03/11				
MECH-1-34.1	RO CIP SYSTEM	V Drwg	401-ME-0011-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM RO CLEANER ROC 50 PLUS SKID	V Drwg	401-PD-0020-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM RO CLEANER ROC 20PLUS SKID	V Drwg	401-PD-0018-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM CITRIC ACID CHEM. SKID	V Drwg	401-PD-0013-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM UF BLEACH SKID	V Drwg	401-PD-0014-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM UF DECHLORINATION SKID	V Drwg	401-PD-0015-01			7/7/2011			7/25/2011						
	PROCESS AND INSTRUMENTATION DIAGRAM BISULFITE CHEM FEED SKID	V Drwg	401-PD-0012-01			7/7/2011			7/25/2011						
MECH-1-35.0	PIPING AND INSTRUMENTATION DIAGRAM INA - INSTRUMENT AIR	Drwg	PS-560	05/05/11	05/05/11	7/7/2011			7/25/2011	07/14/11	07/14/11				
	PIPING AND INSTRUMENTATION DIAGRAM INA - INSTRUMENT AIR	Drwg	PS-561	05/05/11	05/05/11	7/7/2011			7/25/2011	07/14/11	07/14/11				
	PIPING AND INSTRUMENTATION DIAGRAM INA - INSTRUMENT AIR	Drwg	PS-562	05/05/11	05/05/11	7/7/2011			7/25/2011	07/14/11	07/14/11				
MECH-1-35.1	STOCK	V Drwg	540-ME-0003-01			7/7/2011			7/25/2011						
	CDE300 115-1-60 N4 160 1 OPT 0-INA-ADY-01A 0-INA-ADY-01B	V Drwg	540-GA-0002-01			7/7/2011			7/25/2011						
	MODIFIED TANK	V Drwg	540-ME-0002-01			7/7/2011			7/25/2011						

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	IPB DUCT PRESSURIZATION AND MONITORING MODULE VERSION 3	V Drwg	842A-EE-0013-01			7/7/2011			7/25/2011						
	SAMPLE SYSTEM FLOW DIAGRAM	V Drwg	190-PD-0001-01			7/7/2011			7/25/2011						
MECH-1-36.0	PIPING AND INSTRUMENTATION DIAGRAM FGS - FUEL GAS	Drwg	PS-650	06/04/11	40698	7/7/2011			7/25/2011	08/13/11	08/13/11				
	PIPING AND INSTRUMENTATION DIAGRAM FGS - FUEL GAS	Drwg	PS-651	06/04/11	40698	7/7/2011			7/25/2011	08/13/11	08/13/11				
	PIPING AND INSTRUMENTATION DIAGRAM FGS - FUEL GAS	Drwg	PS-652	06/04/11	40698	7/7/2011			7/25/2011	08/13/11	08/13/11				
	PIPING AND INSTRUMENTATION DIAGRAM FGS - FUEL GAS	Drwg	PS-653	06/04/11	40698	7/7/2011			7/25/2011	08/13/11	08/13/11				
	PIPING AND INSTRUMENTATION DIAGRAM FGS - FUEL GAS	Drwg	PS-654	06/04/11	40698	7/7/2011			7/25/2011	08/13/11	08/13/11				
	PIPING AND INSTRUMENTATION DIAGRAM FGS - FUEL GAS	Drwg	PS-655	06/04/11	40698	7/7/2011			7/25/2011	08/13/11	08/13/11				
	PIPING AND INSTRUMENTATION DIAGRAM FGS - FUEL GAS	Drwg	PS-656	06/04/11	40698	7/7/2011			7/25/2011	08/13/11	08/13/11				
MECH-1-36.1	P AND ID	V Drwg	201-PD-0009-01			7/7/2011			7/25/2011						
	P ID	V Drwg	201-PD-0003-01			7/7/2011			7/25/2011						
	P AND ID - PROCESS	V Drwg	201-PD-0001-01			7/7/2011			7/25/2011						
	PID - PROCESS	V Drwg	201-PD-0007-01			7/7/2011			7/25/2011						
	PID - PROCESS	V Drwg	201-PD-0006-01			7/7/2011			7/25/2011						
	GAS TURBINE AUXILIARIES P AND ID	V Drwg	201-PD-0002-01			7/7/2011			7/25/2011						
	MECHANICAL PROCESS AND INSTRUMENTATION FLOW DIAGRAM FOR INDIRECT GAS FIRED WATER BATH HEATER	V Drwg	313-PD-0001-01			7/7/2011			7/25/2011						
	FUEL GAS COMPRESSOR DRAINS TANK FOUNDATION 0-FGS-TNK-01	V Drwg	551-ME-0001-01			7/7/2011			7/25/2011						
MECH-1-37.0	PIPING AND INSTRUMENTATION DIAGRAM AQA - AQUEOUS AMMONIA	Drwg	PS-780	05/12/11	05/12/11	7/7/2011			7/25/2011	07/21/11	07/21/11				
	PIPING AND INSTRUMENTATION DIAGRAM AQA - AQUEOUS AMMONIA	Drwg	PS-781	05/12/11	05/12/11	7/7/2011			7/25/2011	07/21/11	07/21/11				
MECH-1-37.1	21200 GALLON AQUEOUS AMMONIA STORAGE TANK	V Drwg	433-ME-0001-01			7/8/2011			7/25/2011						
	AQUEOUS AMMONIA FEED PUMP SKID PID	V Drwg	110-PD-0002-01			7/8/2011			7/25/2011						
	AQUEOUS AMMONIA FLOW CONTROL SKID PID	V Drwg	110-PD-0003-01			7/8/2011			7/25/2011						
MECH-1-38.0	PIPING AND INSTRUMENTATION DIAGRAM SDR - SANITARY DRAINS	Drwg	PS-950	05/19/11	05/19/11	7/7/2011	7/28/2011	8/31/2011	9/15/2011	07/28/11	07/28/11				
MECH-1-39.0	PIPING AND INSTRUMENTATION DIAGRAM WDR - WASTEWATER DISPOSAL	Drwg	PS-960	06/10/11	06/10/11	7/7/2011			7/25/2011	08/19/11	08/19/11				
	PIPING AND INSTRUMENTATION DIAGRAM WDR - WASTEWATER DISPOSAL	Drwg	PS-961	06/10/11	06/10/11	7/7/2011			7/25/2011	08/19/11	08/19/11				
MECH-1-39.1	OIL-WATER SEPARATOR DETAIL DRAWING		441-ME-0007-01			7/8/2011			7/29/2011						
	OIL-WATER SEPARATOR DETAIL DRAWING		441-ME-0008-01			7/8/2011			7/29/2011						
	WASTE WATER GENERAL ARRANGEMENT DRAWING		550-GA-0002-01			7/8/2011			7/29/2011						
	GENERAL ARRANGEMENT SDS NO 13		560-GA-0003-01			7/8/2011			7/29/2011						
MECH-1-40.0	PIPING AND INSTRUMENTATION DIAGRAM PDR - PLANT DRAINS AND DISPOSAL	Drwg	PS-970	01/22/11	01/22/11	7/7/2011			7/25/2011	06/17/11	06/17/11				
	PIPING AND INSTRUMENTATION DIAGRAM PDR - PLANT DRAINS AND DISPOSAL	Drwg	PS-971	01/22/11	01/22/11	7/7/2011			7/25/2011	06/17/11	06/17/11				
MECH-1-41.0	LARGE BORE FABRICATION ISOMETRIC PWS - POTABLE WATER PIPING	Drwg	PWS100-1	10/26/11	10/26/11					11/28/11	11/28/11				
	LARGE BORE FABRICATION ISOMETRIC PWS - POTABLE WATER PIPING	Drwg	PWS101-1	10/26/11	10/26/11					11/28/11	11/28/11				
	SMALL BORE FABRICATION ISOMETRIC PWS - POTABLE WATER	Drwg	PWS500-1							01/05/12	01/05/12				
	SMALL BORE FABRICATION ISOMETRIC PWS - POTABLE WATER	Drwg	PWS501-1							01/05/12	01/05/12				
MECH-1-42.0	LARGE BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS100-1	10/25/11	10/25/11					11/28/11	11/28/11				
	LARGE BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS101-1	10/25/11	10/25/11					11/28/11	11/28/11				
	LARGE BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS102-1	10/25/11	10/25/11					11/28/11	11/28/11				
	LARGE BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS103-1	10/25/11	10/25/11					11/28/11	11/28/11				
	LARGE BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS104-1	10/25/11	10/25/11					11/28/11	11/28/11				
	LARGE BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS105-1	10/25/11	10/25/11					11/28/11	11/28/11				
	LARGE BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS106-1	10/25/11	10/25/11					11/28/11	11/28/11				
	LARGE BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS107-1	10/25/11	10/25/11					11/28/11	11/28/11				
	LARGE BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS108-1	10/25/11	10/25/11					11/28/11	11/28/11				
	LARGE BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS109-1	10/25/11	10/25/11					11/28/11	11/28/11				
MECH-1-43.0	SMALL BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS500-1							01/05/12	01/05/12				
	SMALL BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS501-1							01/05/12	01/05/12				
	SMALL BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS502-1							01/05/12	01/05/12				
	SMALL BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS503-1							01/05/12	01/05/12				
	SMALL BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS504-1							01/05/12	01/05/12				
	SMALL BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS505-1							01/05/12	01/05/12				
	SMALL BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS506-1							01/05/12	01/05/12				

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	SMALL BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS507-1							01/05/12	01/05/12				
	SMALL BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS508-1							01/05/12	01/05/12				
	SMALL BORE FABRICATION ISOMETRIC RWS - RAW WATER	Drwg	RWS509-1							01/05/12	01/05/12				
MECH-1-44.0	LARGE BORE FABRICATION ISOMETRIC SWS - SERVICE WATER	Drwg	SWS100-1	10/04/11	10/04/11					11/07/11	11/07/11				
	LARGE BORE FABRICATION ISOMETRIC SWS - SERVICE WATER	Drwg	SWS101-1	10/04/11	10/04/11					11/07/11	11/07/11				
	LARGE BORE FABRICATION ISOMETRIC SWS - SERVICE WATER	Drwg	SWS102-1	10/04/11	10/04/11					11/07/11	11/07/11				
	LARGE BORE FABRICATION ISOMETRIC SWS - SERVICE WATER	Drwg	SWS103-1	10/04/11	10/04/11					11/07/11	11/07/11				
	LARGE BORE FABRICATION ISOMETRIC SWS - SERVICE WATER	Drwg	SWS104-1	10/04/11	10/04/11					11/07/11	11/07/11				
	LARGE BORE FABRICATION ISOMETRIC SWS - SERVICE WATER	Drwg	SWS105-1	10/04/11	10/04/11					11/07/11	11/07/11				
	LARGE BORE FABRICATION ISOMETRIC SWS - SERVICE WATER	Drwg	SWS106-1	10/04/11	10/04/11					11/07/11	11/07/11				
	LARGE BORE FABRICATION ISOMETRIC SWS - SERVICE WATER PIPING	Drwg	SWS107-1	10/04/11	10/04/11					11/07/11	11/07/11				
	LARGE BORE FABRICATION ISOMETRIC SWS - SERVICE WATER PIPING	Drwg	SWS108-1	10/04/11	10/04/11					11/07/11	11/07/11				
MECH-1-45.0	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	SWS500-1							12/29/11	12/29/11				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	SWS501-1							12/29/11	12/29/11				
MECH-1-46.0	LARGE BORE FABRICATION ISOMETRIC WATER TREATMENT CHEMICAL FEED	Drwg	WCF100-1	10/18/11	10/18/11					11/21/11	11/21/11				
MECH-1-47.0	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF500-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF501-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF502-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF503-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF504-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF505-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF506-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF507-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF508-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF509-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF510-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF511-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF512-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF513-1	12/29/11	12/29/11					01/20/12	01/20/12				
	SMALL BORE FABRICATION ISOMETRIC WCF - WATER TREATMENT CHEMICAL FEED	Drwg	WCF514-1	12/29/11	12/29/11					01/20/12	01/20/12				
MECH-1-48.0	LARGE BORE FABRICATION ISOMETRIC WDR - WASTEWATER DRAINS	Drwg	WDR100-1	11/08/11	11/08/11					12/12/11	12/12/11				
	LARGE BORE FABRICATION ISOMETRIC WDR - WASTEWATER DRAINS	Drwg	WDR101-1	11/08/11	11/08/11					12/12/11	12/12/11				
	LARGE BORE FABRICATION ISOMETRIC WDR - WASTEWATER DRAINS	Drwg	WDR102-1	11/08/11	11/08/11					12/12/11	12/12/11				
	LARGE BORE FABRICATION ISOMETRIC WDR - WASTEWATER DRAINS	Drwg	WDR103-1	11/08/11	11/08/11					12/12/11	12/12/11				
	LARGE BORE FABRICATION ISOMETRIC WDR - WASTEWATER DRAINS	Drwg	WDR104-1	11/08/11	11/08/11					12/12/11	12/12/11				
	LARGE BORE FABRICATION ISOMETRIC WDR - WASTEWATER DRAINS	Drwg	WDR105-1	11/08/11	11/08/11					12/12/11	12/12/11				
	LARGE BORE FABRICATION ISOMETRIC WDR - WASTEWATER DRAINS	Drwg	WDR106-1	11/08/11	11/08/11					12/12/11	12/12/11				
	LARGE BORE FABRICATION ISOMETRIC WDR - WASTEWATER DRAINS	Drwg	WDR107-1	11/08/11	11/08/11					12/12/11	12/12/11				
	LARGE BORE FABRICATION ISOMETRIC WDR - WASTEWATER DRAINS	Drwg	WDR108-1	11/08/11	11/08/11					12/12/11	12/12/11				
	LARGE BORE FABRICATION ISOMETRIC WDR - WASTEWATER DRAINS	Drwg	WDR109-1	11/08/11	11/08/11					12/12/11	12/12/11				
MECH-1-49.0	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT100-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT101-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT102-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT103-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT104-1	09/20/11	09/20/11					10/24/11	10/24/11				

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	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT105-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT106-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT107-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT108-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT109-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT110-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT111-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT112-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT113-1	09/20/11	09/20/11					10/24/11	10/24/11				
	LARGE BORE FABRICATION ISOMETRIC WWT - WATER TREATMENT	Drwg	WWT114-1	09/20/11	09/20/11					10/24/11	10/24/11				
MECH-1-50.0	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0110	07/27/11	04/11/11	7/6/2011			7/25/2011	09/07/11	05/09/11	8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0120	07/27/11	04/11/11	7/6/2011			7/25/2011	09/07/11	05/09/11	8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0210			7/6/2011			7/25/2011			8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0220	07/27/11	04/11/11	7/6/2011			7/25/2011	09/07/11	05/09/11	8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0240			7/6/2011			7/25/2011			8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0310	07/27/11	04/11/11	7/6/2011			7/25/2011	09/07/11	05/09/11	8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0320	07/27/11	04/11/11	7/6/2011			7/25/2011	09/07/11	05/09/11	8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0330	07/27/11	04/11/11	7/6/2011			7/25/2011	09/07/11	05/09/11	8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0340	07/27/11	04/11/11	7/6/2011			7/25/2011	09/07/11	05/09/11	8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0410			7/6/2011			7/25/2011			8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0420			7/6/2011			7/25/2011			8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0430			7/6/2011			7/25/2011			8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0440			7/6/2011			7/25/2011			8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0510			7/6/2011			7/25/2011			8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0520			7/6/2011			7/25/2011			8/16/2011			9/2/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0040	07/27/11	04/11/11					09/07/11	05/09/11	8/16/2011			9/2/2011
MECH-1-50.1	MECHANICAL BUILDING UNDERGROUND PIPE	DRWG													
MECH-1-51.0	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0130	07/27/11	04/11/11	4/12/2011	5/5/2011			09/07/11	05/09/11	5/12/2011		8/16/2011	9/14/2011
RM needs 853 spec	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0140	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		8/16/2011	9/14/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0150	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		8/16/2011	9/14/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0160	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0170	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0180	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		8/16/2011	9/14/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0190	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		8/16/2011	9/14/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0195	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0230	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		8/16/2011	9/14/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0530	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0630	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0730	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0830	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-0930	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-1030	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-1040	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-1140	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-1150	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING	Drwg	YP-1250	07/27/11	04/11/11	4/12/2011			5/5/2011	09/07/11	05/09/11	5/12/2011		5/23/2011	5/24/2011
	MECHANICAL UNDERGROUND YARD PIPING KEY PLAN	Drwg	YP-0000	07/27/11	04/11/11					09/07/11	05/09/11	5/12/2011		8/16/2011	9/14/2011
MECH-1-51.1 need fm	CATHODIC PROTECTION	SPEC	660			07/22/11	08/26/11	09/15/11	10/04/11						
MECH-1-51.2	CATHODIC PROTECTION CALCULATION & SOILS REPORT	CALC				09/15/11			10/04/11						
MECH-1-52.0 (FM ONLY)	COMBUSTION TURBINE FIRE PROTECTION SYSTEM, O&M	Drwg	FM-200			07/08/11									
~~MECH-1-52.1~~ VOID	~~COMBUSTION TURBINE FIRE PROTECTION O&M~~					~~08/22/11~~									

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MECH-1-52.2	CSFM FOR FM APPROVAL														
MECH-1-53.0	FIRE PROTECTION CODE REVIEW		FPCR			07/07/11	08/01/11	09/16/11	09/29/11						
MECH-2															
MECH-2-1.0	AIR DRYER PRESSURE VESSEL DATA SHEET														
	AIR RECEIVER PRESSURE VESSEL DATA SHEET														
	FUEL GAS SUCTION SCRUBBER VESSEL DATA SHEET														
	FUEL GAS COMPRESSOR AUX. TANSK DATA SHEET														
	FUEL GAS COMPRESSOR DRAINS TANK DATA SHEET														
	FUEL GAS MAIN FILTER/SEPARATOR TANK DATA SHEET														
	FUEL GAS PILOT FILTER/DEPARATOR TANK DATA SHEET														
	AMMONIA TANK DATA SHEET														
	FUEL GAS DEW POINT HEATER DATA SHEET														
MECH-3															
MECH-3-1.0	HVAC SUBMITTAL														
STRUC-1															
STRUC-1-1.0	CAST-IN-PLACE CONCRETE	TSpc	930				03/10/11			2/2/2011	2/14/2011	2/15/2011		5/3/2011	05/03/11
	STRUCTURAL STEEL	TSpc	940							2/2/2011	2/14/2011	2/15/2011			03/10/11
STRUC-1-1.1	2500psi BRENTWOOD										4/17/2011	5/9/2011	5/10/2011		05/25/11
	2500psi MARTINEZ											5/9/2011	5/10/2011		05/25/11
	2500psi RESOLUTION											5/9/2011	5/10/2011		05/25/11
	4000psi FOUNDATION BRENTWOOD											5/9/2011	5/10/2011	5/25/2011	05/25/11
	4000psi FOUNDATION MARTINEZ													5/25/2011	05/25/11
STRUC-1-2.0	PILE DESIGN	Drwg	SN-002							2/7/2011	3/28/2011				
	PRECAST/PRESTRESSED PILES	Tspec	912A							2/8/2011	3/28/2011	4/11/2011	4/4/2011		04/12/11
	PRECAST/PRESTRESSED PILES CALCULATION	Calc	912A-01									5/3/2011		5/26/2011	05/27/11
	Pile Fabricator Calculations - vendor	Calc										5/3/2011			
	KIECON 118 CONCRETE MIX DATA													5/25/2011	05/27/11
	URS MLGS PILE CALC REVIEW LETTER	LETTER												5/25/2011	05/27/11
	KIECON 118 PILE SHOP DRAWING													5/25/2011	REF
STRUC-1-2.1A	INDICATOR TEST PILE LOCATION PLAN	Drwg	SC-001			5/3/2011	05/16/11					05/20/11	5/23/2011	5/24/2011	05/24/11
STRUC-1-2.1B	PILE TO PILE CAP CONNECTION	Calc	912A-02									5/3/2011	5/16/2011	8/23/2011	08/29/11
	PILE TO PILE CAP CONNECTION DETAILS	Drwg	SF-202			5/3/2011	05/16/11						5/16/2011	8/23/2011	08/29/11
STRUC-1-3.0	AMMONIA CONTAINMENT AREA FOUNDATION PILING	Calc	910V-01	7/22/2011	7/22/2011					8/26/2011	8/26/2011	9/29/2011			
	AMMONIA CONTAINMENT AREA FOUNDATION PILING PLAN	Drwg	SF-051	7/22/2011	7/22/2011					8/26/2011	8/26/2011	9/29/2011			
	21,200 GALLON AQUEOUS AMMONIA TANK VENDOR DRAWING	V DRAWING	CC-7005133-001									9/29/2011			
STRUC-1-3.1	AMMONIA CONTAINMENT AREA FOUNDATION	Calc		7/22/2011	7/22/2011					8/26/2011	8/26/2011				
	AMMONIA CONTAINMENT AREA FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-052	7/22/2011	7/22/2011					8/26/2011	8/26/2011				
	AMMONIA CONTAINMENT AREA FOUNDATION SECTIONS AND DETAILS	Drwg	SF-053	7/22/2011	7/22/2011					8/26/2011	8/26/2011				
STRUC-1-4.0	GEOTECHNICAL INVESTIGATIONS REPORT	Spec	024				03/11/11			2/15/2011		2/18/2011		3/23/2011	03/24/11
STRUC-1-4.1	URS MLGS PILE SPRING REVIEW LETTER	Letter				07/12/11		07/27/11							
	JULY 5, 2011 -LETTER FOR MARSH LANDING FOUNDATION DESIGN PARAMETERS	Letter				07/12/11									
STRUC-1-5.0	GROUTING	TSpc	936							2/26/2011	2/26/2011	2/21/2011			03/18/11
STRUC-1-6.0	PRE-ENGINEERED BUILDINGS	Spec	990		3/18/2011	3/21/2011	4/11/2011		Reference	3/5/2011	4/15/2011				
STRUC-1-7.0	CT DRAINS TANK HOLD DOWN SLAB PLAN AND DETAILS	Drwg	SF-026	4/1/2011	4/17/2011	05/14/11	06/23/11			5/7/2011	5/7/2011				07/07/11

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	910R-05.1	Calc				05/14/11	06/23/11								07/07/11
STRUC-1-7.1	OIL/WATER SEPARATOR TANKS O-WDR-SEP-01 AND O-WDR-SEP-02 FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-027	4/1/2011	4/1/2011	04/01/11	04/11/11			5/7/2011	5/7/2011	5/6/2011			05/17/11
	OIL WATER SEPARATOR TANKS, 01 AND 02	Calc	910R-05	4/1/2011	4/1/2011	04/01/11	04/11/11			5/7/2011	5/7/2011	5/6/2011			05/17/11
STRUC-1-8.0	SCR & STACK PILING	Calc	910O-01	5/21/2011	5/21/2011	07/12/11				6/30/2011	6/30/2011	8/9/2011	8/17/2011	9/30/2011	
	SCR SYSTEM UNIT #1 FOUNDATION PILING PLAN	Drwg	SF-017	5/21/2011	5/21/2011	07/12/11				6/30/2011	6/30/2011	8/9/2011	8/17/2011	8/23/2011	
	SCR SYSTEM UNIT #2 FOUNDATION PILING PLAN	Drwg	SF-018			07/12/11						8/9/2011	8/17/2011	8/23/2011	
	SCR SYSTEM UNIT #3 FOUNDATION PILING PLAN	Drwg	SF-019			07/12/11						8/9/2011	8/17/2011	8/23/2011	
	SCR SYSTEM UNIT #4 FOUNDATION PILING PLAN	Drwg	SF-020			07/12/11						8/9/2011	8/17/2011	8/23/2011	
STRUC-1-8.1	DUCT WORK CALC	CALC	REFERENCE	5/31/2011											
	SCR HOUSING CALC	CALC	REFERENCE	5/31/2011											
	SOUND SHROUD CALC	CALC	REFERENCE	5/31/2011											
	STACK CALC	CALC	REFERENCE	5/31/2011											
STRUC-1-8.2	ATCO STRUCTURES & LOGISTICS LOADS	Drwg	201-CA-0016-001			7/1211			08/15/11						
	ATCO STRUCTURES & LOGISTICS BASE PLATES AND ANCHORS	Drwg	201-CA-0017-001			7/1211			08/15/11						
	COOLING AIR COMPRESSOR BLEED I/C PIPE SUPPORTS CALCULATIONS AND FOUNDATION LOADS	CALC	201-CA-0035-001			7/1211			08/15/11						
	ROTOR AIR COOLER /C PIPE SUPPORTS CALCULATIONS AND FOUNDATION LOADS	CALC	201-CA-0036-001			7/1211			08/15/11						
	STACK DESIGN STRUCTURAL CALCULATIONS	CALC	CALC_COMB			7/1211			08/15/11						
	AIR TEMPERING DUCT AND SUPPORT TRUSS	CALC	H2301_C59_130830			7/1211			08/15/11						
	MODAL ANALYSIS		H2301_C59_130807			7/1211			Y						
	SCR SYSTEM SITE LAYOUT GENERAL ARRANGEMENT PLAN VIEW	Drwg	H2301_P59_031201			7/1211			08/15/11						
	INLET DUCT ACOUSTICAL SHROUD STRUCTURAL CALCULATION	CALC	ST11-115-C-R0			7/1211			08/15/11						
	SCR REACTOR HOUSING STRUCTURAL CALCULATION	CALC	H2301-C59-130805			7/1211			08/15/11						
	HOT SCR/CO EMISSION CONTROL SYSTEM	CALC	H2301-C59-130807-R0			7/1211			08/15/11						
STRUC-1-8.3	TYPE C 8109 EQUIPMENT SHELTER	V Drwg	190-SD-0001-001			08/12/11	09/01/11					9/22/2011			09/27/11
	STRUCTURAL CALCULATIONS FOR C8109 EQUIPMENT SHELTER	V Drwg	190-CA-0004-001			08/12/11	09/01/11					9/22/2011			09/27/11
~~**STRUC-1-9.0**~~	~~FOUNDATION LOCATION PLAN~~	~~Drwg~~	~~SF-000~~	~~8/23/2011~~	~~8/23/2011~~	~~07/13/11~~				~~9/27/2011~~	~~9/27/2011~~				
STRUC-1-10.0	ANCHOR BOLT DETAILS	Drwg	SF-200							3/1/2011	3/1/2011	3/10/2011			03/29/11
	TYPICAL CONCRETE DETAILS	Drwg	SF-201							3/1/2011	3/1/2011	3/10/2011		7/1/2011	03/29/11
STRUC-1-11.0	PRECAST CONCRETE	TSpc	933							6/2/2011	6/1/2011	6/3/2011	REF		07/12/11
STRUC-1-12.0	SCR SYSTEM UNIT #1 FAN FOUNDATION PILING PLAN	Drwg	SF-075A	5/21/2011	5/21/2011	08/12/11	08/29/11			6/30/2011	6/30/2011	9/13/2011			
	SCR SYSTEM UNIT #2 FAN FOUNDATION PILING PLAN	Drwg	SF-075B	5/21/2011	5/21/2011	08/12/11	08/29/11			6/30/2011	6/30/2011	9/13/2011			
	SCR SYSTEM UNIT #3 FAN FOUNDATION PILING PLAN	Drwg	SF-075C	5/21/2011	5/21/2011	08/12/11	08/29/11			6/30/2011	6/30/2011	9/13/2011			
	SCR SYSTEM UNIT #4 FAN FOUNDATION PILING PLAN	Drwg	SF-075D	5/21/2011	5/21/2011	08/12/11	08/29/11			6/30/2011	6/30/2011	9/13/2011			
	CT EXHAUST/SCR COOLING AIR FAN PILING	Calc	910R-01	5/21/2011	5/21/2011	08/12/11	08/29/11			6/30/2011	6/30/2011	9/13/2011			
STRUC-1-12.1	TEMP AIR FAN INTAKE STACK CALC	CALC	110-CA-0006-001			08/11/11									
	TAS FAN SUPPORT CALC	CALC	110-CA-0007-001			08/11/11									
STRUC-1-13.0	FUEL GAS CONDITIONER AND FUEL GAS REGULATING SKID FOUNDATION AND PILE DESIGN	Calc	910D-04	6/15/2011	8/5/2011	08/10/11	9/8/2011			7/20/2011	7/20/2011	9/29/2011			
	FUEL GAS CONDITIONING AND REGULATING SKID FOUNDATION PILING PLAN	Drwg	SF-046	6/15/2011	8/5/2011	08/10/11	9/8/2011			7/20/2011	7/20/2011	9/29/2011			
	FUEL GAS CONDITIONING AND REGULATING SKID FOUNDATION PILING PLAN, SECTIONS AND DETAILS	Drwg	SF-047			08/10/11	9/8/2011					9/29/2011			
STRUC-1-14.0	CTG STEP-UP TRANSFORMER FOUNDATION PILING	Calc	910G-01	5/12/2011	5/12/2011					6/16/2011	6/16/2011	5/10/2011		6/13/2011	06/21/11
	UNIT #1 CTG STEP-UP TRANSFORMER FOUNDATION PILING PLAN	Drwg	SF-080	5/12/2011	5/12/2011	05/10/11				6/16/2011	6/16/2011	6/13/2011		8/19/2011	09/01/11
	UNIT #2 CTG STEP-UP TRANSFORMER FOUNDATION PILING PLAN	Drwg	SF-082			05/10/11						6/13/2011		8/19/2011	09/01/11
	UNIT #4 CTG STEP-UP TRANSFORMER FOUNDATION PILING PLAN	Drwg	SF-086			05/10/11						6/13/2011		8/19/2011	09/01/11
	CALCULATION	Drwg	201-CA-0023			05/10/11			06/07/11						
	D-7309 OUTLINE_REV5	Drwg	201-EE-0003			05/10/11			06/07/11						
	C-4610 TRANSFORMER BASE _REV3	Drwg	201-FN-0003			05/10/11			06/07/11						
STRUC-1-15.0	CTG STEP-UP TRANSFORMER FOUNDATION	Calc	910G-02	6/25/2011	6/25/2011	07/13/11	08/12/01			7/30/2011	7/30/2011	8/24/2011		9/13/2011	
	#1 CTG STEP-UP TRANSFORMER FOUNDATION	Drwg	SF-081	6/25/2011	6/25/2011	07/13/11	08/12/01			7/30/2011	7/30/2011	8/24/2011		9/13/2011	
	#2 CTG STEP-UP TRANSFORMER FOUNDATION	Drwg	SF-083			07/13/11	08/12/01					8/24/2011		9/13/2011	

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	#4 CTG STEP-UP TRANSFORMER FOUNDATION	Drwg	SF-087			07/13/11	08/12/01					8/24/2011		9/13/2011	
STRUC-1-16.0	SERVICE WATER PUMPS FOUNDATION	Calc		6/2/2011	6/2/2011					7/7/2011	7/7/2011				
	SERVICE WATER PUMPS FOUNDATION PLAN AND DETAILS	Drwg	SF-035	6/2/2011	6/2/2011					7/7/2011	7/7/2011				
	CT EVAP COOLER MAKE UP PUMPS FOUNDATION	Calc		9/20/2011	9/20/2011					10/25/2011	10/25/2011				
	CT EVAP COOLER MAKE UP PUMPS FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-041	9/20/2011	9/20/2011					10/25/2011	10/25/2011				
	WASTE WATER PUMPS FOUNDATION	Calc		6/15/2011	6/15/2011					7/20/2011	7/20/2011				
	WASTE WATER PUMPS FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-038	6/15/2011	6/15/2011					7/20/2011	7/20/2011				
STRUC-1-17.0	TCA/ROTOR AIR COOLER FOUNDATION PILING	Calc		4/28/2011	4/28/2011					6/3/2011	6/3/2011				
	TCA/ROTOR AIR COOLER FOUNDATION PILING PLAN	Drwg	SF-056	4/28/2011	4/28/2011					6/3/2011	6/3/2011				
STRUC-1-18.0	TCA/ROTOR AIR COOLER FOUNDATION (FM?)	Calc		5/31/2011	5/31/2011					7/14/2011	7/14/2011				
	TCA/ROTOR AIR COOLER FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-057	5/31/2011	5/31/2011					7/14/2011	7/14/2011				
STRUC-1-19.0	CT EXHAUST/SCR COOLING AIR FAN FOUNDATION	Calc	910R-02			09/02/11		10/10/11		7/7/2011	7/7/2011				
	SCR FAN FOUNDATION PRE-POUR EMBEDMENT PLAN	Drwg	SF-076			09/02/11		10/10/11		7/7/2011	7/7/2011				
	SCR FAN FOUNDATION PRE-POUR EMBEDMENT PLAN	Drwg	SF-076A			09/02/11		10/10/11							
	SCR FAN FOUNDATION SECTIONS AND DETAILS	Drwg	SF-076B			09/02/11		10/10/11							
	SCR FAN FOUNDATION PRE-POUR EMBEDMENT DETAILS	Drwg	SF-076C			09/02/11		10/10/11							
STRUC-1-20.0	RAW WATER STORAGE TANK FOUNDATION	Calc	910Q-01	6/3/2011	6/3/2011	04/25/11	04/28/11			7/13/2011	7/13/2011	5/20/2011			05/26/11
	RAW WATER STORAGE TANK FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-034	6/3/2011	6/3/2011	04/25/11	04/28/11			7/13/2011	7/13/2011	5/20/2011			05/26/11
	ANCHOR BOLT LAYOUT- RAW WATER STORAGE TANK	Drwg	AB-RWT									5/20/2011			05/26/11
	RAW WATER TANK	Calc	02187-001									5/20/2011			05/26/11
~~**STRUC-1-21.0**~~	~~RO PERMEATE TANK FOUNDATION PILING~~	~~Calc~~		~~6/3/2011~~	~~6/3/2011~~					~~7/13/2011~~	~~7/13/2011~~				
	~~RO PERMEATE TANK FOUNDATION PILING PLAN~~	~~Drwg~~	~~SF-039~~	~~6/3/2011~~	~~6/3/2011~~					~~7/13/2011~~	~~7/13/2011~~				
STRUC-1-22.0	RO PERMEATE AND WASTE WATER TANK FOUNDATION	Calc	910Q-02	6/3/2011	6/3/2011	04/25/11	05/13/11			7/13/2011	7/13/2011	5/20/2011			06/02/11
	RO PERMEATE TANK FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-040	6/9/2011	6/9/2011	04/25/11	05/13/11			7/13/2011	7/13/2011	5/20/2011			06/02/11
	WASTE WATER STORAGE TANK FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-037	6/15/2011	6/15/2011	04/25/11	05/13/11			7/20/2011	7/20/2011	5/20/2011			06/02/11
	ANCHOR BOLT LAYOUT- RO PERMEATE STORAGE TANK	Drwg	AB-ROPT									5/20/2011			06/02/11
	ANCHOR BOLT LAYOUT- WASTE WATER STORAGE TANK	Drwg	AB-WWT									5/20/2011			06/02/11
	RO PERMEATE STORAGE TANK	Calc	02187-002									5/20/2011			06/02/11
	WASTE WATER TANK	Calc	02187-003									5/20/2011			06/02/11
~~**STRUC-1-23.0**~~	~~CT EVAP COOLER MAKE UP PUMPS FOUNDATION~~	~~Calc~~		~~9/20/2011~~	~~9/20/2011~~					~~10/25/2011~~	~~10/25/2011~~				
	~~CT EVAP COOLER MAKE UP PUMPS FOUNDATION PLAN, SECTIONS AND DETAILS~~	~~Drwg~~	~~SF-041~~	~~9/20/2011~~	~~9/20/2011~~					~~10/25/2011~~	~~10/25/2011~~				
STRUC-1-24.0	CTG & AIR INLET FOUNDATION PILING	Calc	910A-01	4/29/2011	4/29/2011					6/4/2011	6/4/2011	5/9/2011	5/31/2011	9/29/2011	08/05/11
	CTG & AIR INLET FOUNDATION PILING PLAN	Drwg	SF-005	4/29/2011	4/29/2011	05/09/11				6/4/2011	6/4/2011	6/22/2011		8/15/2011	08/05/11
	CTG & AIR INLET FOUNDATION PLAN	Drwg	SF-006	4/29/2011	4/29/2011	05/09/11				7/14/2011	7/14/2011	6/22/2011		8/15/2011	08/05/11
	CTG & AIR INLET FOUNDATION PLAN	Drwg	SF-007	4/29/2011	4/29/2011	05/09/11				7/14/2011	7/14/2011	6/22/2011	10/10/2011	10/6/2011	08/05/11
	CTG FOUNDATION PRE-POUR EMBEDMENT PLAN	Drwg	SF-008	4/29/2011	4/29/2011	05/09/11				7/14/2011	7/14/2011	6/22/2011	10/10/2011	10/6/2011	08/05/11
STRUC-1-24.1	Foundation Loading Calculations	Calc	201-CA-0001			05/09/11	6/9/2011								
	CENTER OF GRAVITY FOUNDATION LOADS	Drwg	201-CA-0005			05/09/11	5/23/2011								
	11100230 CALCULATIONS	Drwg	201-CA-0010			05/09/11	05/24/11								
	CALCS 2011-01-22	Drwg	201-CA-0011			05/09/11			REF						
	CT-SEISMIC LOAD CALC	Drwg	201-CA-0012			05/09/11	05/23/01								
	CALCULATIONS-SIGNED	Drwg	201-CA-0013			05/09/11	05/25/11								
	EXCITHOUSECALC-SIGNED	Drwg	201-CA-0014			05/09/11			REF						
	CALCS-PILOT TANK	Drwg	201-CA-0018			05/09/11			REF						
	CALCULATIONS_CBC ORIE2-DS	Drwg	201-CA-0020			05/09/11	06/02/11								
	CAPE FLD R03 MARSHLANDING	Drwg	201-CA-0021			05/09/11			REF						
	LOADS_CBC_ORIE2-DS	Drwg	201-CA-0022			05/09/11	06/02/11								
	9692-CLC-002	Drwg	201-CA-0024			05/09/11			REF						
	9692-CLC-003	Drwg	201-CA-0025			05/09/11			REF						
	CALCS-MAIN TANK	Drwg	201-CA-0031			05/09/11			REF						
	01297 FRONT	Drwg	201-CA-0032			05/09/11			REF						
	01297 TAB 1	Drwg	201-CA-0033			05/09/11			REF						
	01297 TAB 3	Drwg	201-CA-0034			05/09/11			REF						

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	01297 TAB 3	Drwg	201-CA-0035			05/09/11			REF						
	01297 TAB 5	Drwg	201-CA-0035			05/09/11			REF						
	01297 TAB 7	Drwg	201-CA-0036			05/09/11			REF						
	11100230-100 REV1 STAMPED	Drwg	201-EP-0002			05/09/11			REF						
	11100229-200 REV1 STAMPED	Drwg	201-FN-0002			05/09/11			REF						
	23600A-10FL-001_REV0	Drwg	201-FN-0005			05/09/11			REF						
	23600A_10-FL002_REV0	Drwg	201-FN-0006			05/09/11			REF						
	US1033-XB00-MB-2005200101	Drwg	201-FN-0007			05/09/11			REF						
	US1033-XB00-MB-2005600101	Drwg	201-FN-0008			05/09/11			REF						
	US1033-XB00-MB-2005600201	Drwg	201-FN-0008			05/09/11			REF						
	US1033-XB00-MB-2005600301	Drwg	201-FN-0008			05/09/11			REF						
	US1033-XB00-MB-2005600401	Drwg	201-FN-0008			05/09/11			REF						
	US1033-XB00-MB-2005600501	Drwg	201-FN-0008			05/09/11			REF						
	US1033-XB00-MB-2005600601	Drwg	201-FN-0008			05/09/11			REF						
	US1033-XB00-MB-2005900102	Drwg	201-FN-0009			05/09/11			REF						
	US1033-XB00-MB-2005900202	Drwg	201-FN-0009			05/09/11			REF						
	US1033-XB-MBJ-2005400101	Drwg	201-FN-0010			05/09/11	06/09/11								
	US1033-XB-MBJ-2005400201	Drwg	201-FN-0010			05/09/11									
	US1033-VB00-MKA-2005500101	Drwg	201-FN-0011			05/09/11			REF						
	US1033-VB00-MKA-2005500201	Drwg	201-FN-0011			05/09/11			REF						
	US1033-VB00-MKA-2005500301	Drwg	201-FN-0011			05/09/11			REF						
	US1033-VB00-MKA-2005500401	Drwg	201-FN-0011			05/09/11			REF						
	CA PE FLD R03 MARSHLANDING	Drwg	201-FN-0012			05/09/11			REF						
	ZDX559-XB00-MBP-00000601102	Drwg	201-FN-0014			05/09/11			REF						
	ZDX559-XB00-MBR-00000201101	Drwg	201-FN-0015			05/09/11			REF						
	ZDX559-XB00-UMX-0000020101	Drwg	201-FN-0016			05/09/11			REF						
	ZDX559-XB00-UMX-0000030101	Drwg	201-FN-0017			05/09/11			REF						
	ZDX559-XB00-MBH-0000110101	Drwg	201-FN-0021			05/09/11			REF						
	ZDX559-XB00-MBH-0000120104	Drwg	201-FN-0022			05/09/11			REF						
	ZDX559-XB00-MBP-0000070101	Drwg	201-FN-0023			05/09/11			REF						
	ZDX559-XB00-MBP-0000080102	Drwg	201-FN-0024			05/09/11			REF						
	ZDX559-XB00-MBX-0000020101	Drwg	201-FN-0025			05/09/11			REF						
	ZDX559-XB00-MBX-0000040101	Drwg	201-FN-0026			05/09/11			REF						
	ZDX559-ZB00-SGN-0000030101	Drwg	201-FN-0028			05/09/11			REF						
	US1033-XB00-MKA-2020300101	Drwg	201-FN-0030			05/09/11			REF						
	ZDX559-XB00-MBH-0000030102	Drwg	201-FN-0031			05/09/11			REF						
	INLET AIR FILTER	Drwg	201-FN-0033			05/09/11			REF						
	INLRT HTG PS	Drwg	201-FN-0034			05/09/11			REF						
	INLET SILENCER	Drwg	201-GA-0005			05/09/11			REF						
	TURB PIPE RACK XX	Drwg	201-RE-0031			05/09/11	05/27/11								
	INT PLT LS	Drwg	201-RE-0032			05/09/11			REF						
	EXH PLT EXT	Drwg	201-RE-0033			05/09/11			REF						
	EXH PLT INT	Drwg	201-RE-0034			05/09/11			REF						
	LO COOLER SPT	Drwg	201-RE-0035			05/09/11	05/23/11								
	ROTO AIR STR	Drwg	201-RE-0036			05/09/11	06/02/11								
	SS INLET PLTSTR	Drwg	201-RE-0037			05/09/11			REF						
	TG PLATFORM	Drwg	201-RE-0039			05/09/11	06/09/11								
	GEN-ANCHORS	Drwg	201-RE-0041			05/09/11			REF						
	LUBE OIL FIN FAN COOLER	Drwg	201-RE-0051			05/09/11	05/23/11								
STRUC-1-24.2	Foundation Loading Calculations	Calc	201-CA-0001			05/09/11	6/9/2011								
TURNING GEAR	US1033-XB-MBJ-2005400101	Drwg	201-FN-0010			05/09/11	06/09/11								
	US1033-XB-MBJ-2005400201	Drwg	201-FN-0010			05/09/11									
STRUC-1-24.5	STRUCTURAL CALCULATION	CALC	201-CA-0013			05/09/11	05/25/11								
GENERATOR ENCLOSURE	EXCITHOUSECALC-SIGNED	CALC	201-CA-0014			05/09/11			REF						
	US1033-VB00-MKA-2005500101	V DRWG	201-FN-0011			05/09/11			REF						
	US1033-VB00-MKA-2005500201	V DRWG	201-FN-0011			05/09/11			REF						
	US1033-VB00-MKA-2005500301	V DRWG	201-FN-0011			05/09/11			REF						
	US1033-VB00-MKA-2005500401	V DRWG	201-FN-0011			05/09/11			REF						
	ANCHOR BOLT LAYOUT PULSE FILTER	V DRWG	7537-S01 -SIGNED												
	ANCHOR BOLT DETAILS	V DRWG	7537-S02 -SIGNED												
	ROOF FRAMING PLAN & DETAILS	V DRWG	7537-S03 -SIGNED												
	WALL ELEVATION GRID LINES '1' & 'A'	V DRWG	7537-S04 -SIGNED												
	WALL ELEVATION GRID LINE '4'	V DRWG	7537-S05 -SIGNED												
	SECTION AT GRID LINE 'B'	V DRWG	7537-S06 -SIGNED												
	FILTER HOUSE & INTAKE SILENCER SUPPORT FRAME	V DRWG	7537-S07 -SIGNED												
	EXHAUST SILENCER SUPPORT FRAME	V DRWG	7537-S08 -SIGNED												

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STRUC-1-24.34															
CONTROL OIL SKID	RST11026-A	Drwg	201-CA-0019			05/09/11	10/03/11	09/23/11							
STRUC-1-25.0	DESIGN OF COMBUSTION TURBINE FOUNDATION - MAT AND PEDESTALS	Calc	910A-02	4/29/2011	5/27/2011	07/05/11	08/19/11			7/14/2011	7/14/2011				
	DESIGN OF COMBUSTION TURBINE (CT) FOUNDATION - ANCHORAGE AND EMBEDMENTS	Calc	910A-03	4/29/2011	5/27/2011	07/05/11	08/19/11			7/14/2011	7/14/2011				
	FOUNDATION LOCATION PLAN	Drwg	SF-000			07/05/11	08/19/11								
	CTG POST-POUR PLACEMENT PLAN	Drwg	SF-009	4/29/2011	5/27/2011	07/05/11	08/19/11			7/14/2011	7/14/2011				
	CTG FOUNDATION SECTIONS	Drwg	SF-010	4/29/2011	5/27/2011	07/05/11	08/19/11			7/14/2011	7/14/2011				
	CTG FOUNDATION SECTIONS	Drwg	SF-011	4/29/2011	5/27/2011	07/05/11	08/19/11			7/14/2011	7/14/2011				
	CTG FOUNDATION DETAILS	Drwg	SF-012	4/29/2011	5/27/2011	07/05/11	08/19/11			7/14/2011	7/14/2011				
	CTG FOUNDATION DETAILS	Drwg	SF-013	4/29/2011	5/27/2011	07/05/11	08/19/11			7/14/2011	7/14/2011				
	CTG FOUNDATION DETAILS	Drwg	SF-014	4/29/2011	5/27/2011	07/05/11	08/19/11			7/14/2011	7/14/2011				
	CTG FOUNDATION DETAILS	Drwg	SF-015	4/29/2011	5/27/2011	07/05/11	08/19/11			7/14/2011	7/14/2011				
STRUC-1-26.0	CEMS FOUNDATION	Calc		7/2/2011	7/2/2011					8/27/2011	8/27/2011				
	CEMS FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-055	7/2/2011	7/2/2011					8/27/2011	8/27/2011				
~~**STRUC-1-27.0**~~	~~WASTE WATER PUMPS FOUNDATION~~	~~Calc~~		~~6/15/2011~~	~~6/15/2011~~					~~7/20/2011~~	~~7/20/2011~~				
	~~WASTE WATER PUMPS FOUNDATION PLAN, SECTIONS AND DETAILS~~	~~Drwg~~	~~SF-038~~	~~6/15/2011~~	~~6/15/2011~~					~~7/20/2011~~	~~7/20/2011~~				
STRUC-1-28.0	PILOT GAS COOLER FOUNDATION	Calc		6/3/2011	6/3/2011					7/13/2011	7/13/2011				
		Drwg	SF-036	6/3/2011	6/3/2011					7/13/2011	7/13/2011				
STRUC-1-28.1	PILOT GAS COOLER FOUNDATION	V DRWG													
~~**STRUC-1-29.0**~~	~~WASTE WATER STORAGE TANK FOUNDATION PLAN, SECTIONS AND DETAILS~~	~~Drwg~~	~~SF-037~~	~~6/15/2011~~	~~6/15/2011~~					~~7/20/2011~~	~~7/20/2011~~				
	~~WASTE WATER STORAGE TANK FOUNDATION~~	~~Calc~~		~~6/15/2011~~	~~6/15/2011~~					~~7/20/2011~~	~~7/20/2011~~				
~~**STRUC-1-30.0**~~	~~DEMINERALIZED WATER TANK FOUNDATION PILING~~	~~Calc~~		~~6/3/2011~~	~~6/3/2011~~					~~7/13/2011~~	~~7/13/2011~~				
	~~DEMINERALIZED WATER TANK FOUNDATION PILING PLAN~~	~~Drwg~~	~~SF-030~~	~~6/3/2011~~	~~6/3/2011~~					~~7/13/2011~~	~~7/13/2011~~				
~~**STRUC-1-31.0**~~	~~DEMINERALIZED WATER PUMPS FOUNDATION~~	~~Calc~~		~~6/9/2011~~	~~6/9/2011~~					~~7/14/2011~~	~~7/14/2011~~				
	~~DEMINERALIZED WATER PUMPS FOUNDATION PLAN AND DETAILS~~	~~Drwg~~	~~SF-032~~	~~6/9/2011~~	~~6/9/2011~~					~~7/14/2011~~	~~7/14/2011~~				
STRUC-1-32.0	DEMINERALIZED WATER TANK FOUNDATION	Calc		6/9/2011	6/9/2011					7/14/2011	7/14/2011				
	DEMINERALIZED WATER TANK FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-031	6/9/2011	6/9/2011					7/13/2011	7/14/2011				
~~**STRUC-1-33.0**~~	~~PAD MOUNTED TRANSFORMERS FOUNDATION PLANS - Unit Aux~~	~~Drwg~~	~~SF-091~~	~~7/21/2011~~	~~7/21/2011~~					~~8/25/2011~~	~~8/25/2011~~				
	~~PAD MOUNTED TRANSFORMERS FOUNDATION PLANS - Unit Aux~~	~~Drwg~~	~~SF-092~~	~~7/21/2011~~	~~7/21/2011~~					~~8/25/2011~~	~~8/25/2011~~				
STRUC-1-34.0	FUEL GAS DEW POINT HEATER AREA FOUNDATION & PILING	Calc	910D-02	4/9/2011	5/13/2011	7/21/2011				4/30/2011	4/30/2011	8/29/2011	9/8/2011	9/30/2011	
	FUEL GAS DEW POINT HEATER AREA FOUNDATION PILING PLAN	Drwg	SF-058	4/9/2011	5/13/2011	7/21/2011				4/30/2011	4/30/2011	8/29/2011	9/8/2011	9/30/2011	
STRUC-1-34.1	ASSEMBLY OF A SKID MOUNTED INDIRECT GAS FIRE WATER BATH HEATER	V DRWG	D0021711-300A			8/29/2011									
STRUC-1-35.0	FUEL GAS DEW POINT HEATER AREA FOUNDATION & PILING	Calc	910D-02	4/9/2011	5/13/2011	7/21/2011				6/1/2011	6/1/2011	9/30/2011			
	FUEL GAS DEW POINT HEATER AREA PILING PLAN, SECTIONS AND DETAILS (Foundation)	Drwg	SF-059	5/11/2011	5/26/2011	8/15/2011				6/1/2011	6/1/2011	9/30/2011			
	SKID ANALYSIS INDIRECT GAS FIRE WATER BATH HEATER	v drwg	313-RE-0036							6/1/2011	6/1/2011				
STRUC-1-36.0	STATIC EXCITATION EQUIPMENT TRANSFORMER, GENERATOR BREAK, ISOPHASE, GENERATOR VT & SURGE CUBICLE FOUNDATION PILING	Calc	910R-06	6/2/2011	5/27/2011	06/02/11	06/15/11			7/9/2011	7/9/2011	07/01/11			08/05/11
	STATIC EXCITATION EQUIPMENT TRANSFORMER, GENERATOR BREAK, ISOPHASE, GENERATOR VT & SURGE CUBICLE FOUNDATION PILING PLAN: UNIT 1	Drwg	SF-088A	6/2/2011	5/27/2011	06/02/11	06/15/11			7/9/2011	7/9/2011	07/01/11		8/19/2011	08/29/11

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	STATIC EXCITATION EQUIPMENT TRANSFORMER, GENERATOR BREAK, ISOPHASE, GENERATOR VT & SURGE CUBICLE FOUNDATION PILING PLAN: UNIT 2	Drwg	SF-088B	6/2/2011	5/27/2011	06/02/11	06/15/11					07/01/11		8/19/2011	08/29/11
	STATIC EXCITATION EQUIPMENT TRANSFORMER, GENERATOR BREAK, ISOPHASE, GENERATOR VT & SURGE CUBICLE FOUNDATION PILING PLAN: UNIT 3	Drwg	SF-088C	6/2/2011	5/27/2011	06/02/11	06/15/11					07/01/11		8/19/2011	08/29/11
	STATIC EXCITATION EQUIPMENT TRANSFORMER, GENERATOR BREAK, ISOPHASE, GENERATOR VT & SURGE CUBICLE FOUNDATION PILING PLAN: UNIT 4	Drwg	SF-088D	6/2/2011	5/27/2011	06/02/11	06/15/11					07/01/11		8/19/2011	08/29/11
	STATIC EXCITATION EQUIPMENT TRANSFORMER, GENERATOR BREAK, ISOPHASE, GENERATOR VT & SURGE CUBICLE FOUNDATION PILING - response		910R-06									07/01/11			08/05/11
STRUC-1-36.1	CALVERT RESPONSES TO CBO COMMENTS	V Dwg	842A-RE-0002-001			07/11/01									
	IPB SUPPORT CALCULATIONS REV. 1	V Dwg	CAL7250			07/11/01									
STRUC-1-37.0	Isophase Area Foundation Calculation	Calc	910R-07	5/17/2011	5/17/2011	08/05/11				6/20/2011	6/20/2011	9/14/2011	9/21/2011		
	Units #1, 3 and 4 Iso-Phase Support Area Mat Foundations Plan, Sections and Details	Drwg	SF-089A	5/17/2011	5/17/2011	08/05/11				6/20/2011	6/20/2011	9/14/2011	9/21/2011		
	Unit #2 Iso-Phase Support Area Mat Foundation Plan, Sections and Details	Drwg	SF-089B	5/17/2011	5/17/2011	08/05/11				6/20/2011	6/20/2011	9/14/2011	9/21/2011		
STRUC-1-37.1	I.P.B. Structural Steel Plan	V Dwg	7250-11-LP			09/19/11									
	I.P.B. Structural Steel Anchor Bolt Plan	V Dwg	7250-11-LB			09/19/11									
	I.P.B. Structural Steel Sections (Sheet 1 of 3)	V Dwg	7250-11-LL			09/19/11									
	I.P.B. Structural Steel Sections (Sheet 2 of 3)	V Dwg	7250-11-LL			09/19/11									
	I.P.B. Structural Steel Sections (Sheet 3 of 3)	V Dwg	7250-11-LL			09/19/11									
	I.P.B. Structural Steel Details	V Dwg	7250-11-LZ			09/19/11									
	I.P.B. Structural Steel Plan	V Dwg	7250-21-LP			09/19/11									
	I.P.B. Structural Steel Anchor Bolt Plan	V Dwg	7250-21-LB			09/19/11									
	I.P.B. Structural Steel Sections (Sheet 1 of 3)	V Dwg	7250-21-LB			09/19/11									
	I.P.B. Structural Steel Sections (Sheet 2 of 3)	V Dwg	7250-21-LL			09/19/11									
	I.P.B. Structural Steel Sections (Sheet 3 of 3)	V Dwg	7250-21-LL			09/19/11									
	Structural Calculations Bus Duct Supports	V Dwg	842A-CA-0001			09/19/11									
STRUC-1-38.0	STATIC FREQUENCY CONVERTER (SFC) TRANSFORMER ACCESS STEEL	Calc		12/15/2011	12/15/2011					1/18/2012	1/18/2012				
	STATIC FREQUENCY CONVERTER (SFC) TRANSFORMER ACCESS STEEL PLANS AND DETAILS	Drwg	ST-004	12/15/2011	12/15/2011					1/18/2012	1/18/2012				
STRUC-1-39.0	STATIC FREQUENCY CONVERTER (SFC) TRANSFORMER FOUNDATION	Calc	910G-05	7/21/2011	7/21/2011	07/27/11				8/25/2011	8/25/2011				
	STATIC FREQUENCY CONVERTER (SFC) TRANSFORMER FOUNDATION PLAN	Drwg	SF-097	7/21/2011	7/21/2011	07/27/11				8/25/2011	8/25/2011				
	SFC TRANSFORMER	VDRWG	201-CA-0024-001			07/27/11									
	SEE TRANSFORMER	VDRWG	201-CA-0006-002			07/27/11									
	SFC TRANSFORMER FND	VDRWG	201-FN-0019-001			07/27/11									
	SEE TRANSFORMER FND	VDRWG	201-FN-0029-001			07/27/11									
STRUC-1-40.0	WATER TREATMENT FOUNDATIONS/SUMP	Calc		6/29/2011	6/29/2011					8/3/2011	8/3/2011				
	WATER TREATMENT FOUNDATIONS/SUMP	Drwg	SF-	6/29/2011	6/29/2011					8/3/2011	8/3/2011				
STRUC-1-40.1	WATER TREATMENT ELECTRICAL ENCLOSURE FOUNDATION	Calc		6/29/2011	6/29/2011					8/3/2011	8/3/2011				
	WATER TREATMENT ELECTRICAL ENCLOSURE FOUNDATION	Drwg	SF-079	6/29/2011	6/29/2011					8/3/2011	8/3/2011				
STRUC-1-40.2	WATER TREATMENT ELECTRICAL ENCLOSURE FOUNDATION														
STRUC-1-41.0	DEADEND STRUCTURE FOUNDATION PILING	Calc		7/1/2011						7/21/2011					
	DEADEND STRUCTURE FOUNDATION PILING PLAN	Drwg	SF-094	9/23/2011	9/23/2011					10/28/2011	10/28/2011				
~~**STRUC-1-42.0**~~	~~FUEL GAS CHROMATOGRAPH AND METERING SKID FOUNDATION~~	~~Calc~~		~~7/7/2011~~	~~9/2/2011~~					~~8/11/2011~~					
	~~FUEL GAS CHROMATOGRAPH AND METERING SKID FOUNDATION PLAN, SECTIONS AND DETAILS~~	~~Drwg~~	~~SF-044~~	~~7/9/2011~~	~~9/2/2011~~					~~8/13/2011~~	~~8/13/2011~~				
STRUC-1-43.0	CTG STEP-UP AND AUX TRANSFORMER FOUNDATION	Calc	910G-04	7/12/2011	9/7/2011	09/14/11	09/20/11			10/11/2011					
	CTG STEP-UP TRANSFORMER UNIT #3 AND UAT TRANSFORMERS FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-085	9/8/2011	9/8/2011	09/14/11	09/20/11			10/13/2011	10/13/2011				
	CTG STEP-UP TRANSFORMER UNIT #3 AND UAT TRANSFORMERS FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-085A	9/8/2011	9/8/2011	09/14/11	09/20/11			10/13/2011	10/13/2011				

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STRUC-1-44.0	AUX TRANSFORMER FOUNDATON PILING	Calc	910G-03	7/12/2011		07/19/11	08/15/11			7/19/2011		9/13/2011			09/16/11
	UNIT #3 CTG STEP-UP TRANSFORMER AND UAT TRANSFORMERS FOUNDATION PILING PLAN	Drwg	SF-084	7/13/2011	7/13/2011	07/19/11	08/15/11			8/17/2011	8/17/2011	9/13/2011			09/16/11
	URS LETTER OF CLARIFICATION FOR GEO TECH											9/13/2011			09/16/11
~~**STRUC-1-45.0**~~	~~STATIC EXCITATION EQUIPMENT TRANSFORMER, GENERATOR BREAK, ISOPHASE, GENERATOR VT & SURGE CUBICLE FOUNDATION~~	~~Calc~~		~~7/14/2011~~	~~7/14/2011~~					~~8/18/2011~~	~~8/18/2011~~				
	~~STATIC EXCITATION EQUIPMENT TRANSFORMER, GENERATOR BREAK, ISOPHASE, GENERATOR VT & SURGE CUBICLE FOUNDATION PLAN, SECTIONS AND DETAILS~~	~~Drwg~~	~~SF-088~~	~~7/14/2011~~	~~7/14/2011~~					~~8/18/2011~~	~~8/18/2011~~				
	~~STATIC EXCITATION EQUIPMENT TRANSFORMER, GENERATOR BREAK, ISOPHASE, GENERATOR VT & SURGE CUBICLE FOUNDATION SECTIONS AND DETAILS~~	~~Drwg~~	~~SF-089~~	~~7/14/2011~~	~~7/14/2011~~					~~8/18/2011~~	~~8/18/2011~~				
STRUC-1-46.0	DEADEND STRUCTURE FOUNDATION	Calc		9/23/2011	9/23/2011					10/28/2011	10/28/2011				
	DEADEND STRUCTURE FOUNDATION PLAN	Drwg	SF-095	9/23/2011	9/23/2011					10/28/2011	10/28/2011				
STRUC-1-47.0	ELECTRICAL 5kV BUILDING FOUNDATION	Calc	910R-04	8/23/2011	8/23/2011	08/24/11	09/14/11			9/27/2011	9/27/2011	10/7/2011			
	ELECTRICAL BUILDING FOUNDATION PLAN AND DETAILS	Drwg	SF-002	8/23/2011	8/23/2011	08/24/11	09/14/11			9/27/2011	9/27/2011	10/7/2011			
	ELECTRICAL BUILDING FOUNDATION PLAN AND DETAILS	Drwg	SF-002A	8/23/2011	8/23/2011	08/24/11	09/14/11			9/27/2011	9/27/2011	10/7/2011			
STRUC-1-47.1	5kV Building Structural Calculations	Drwg	820-CA-0003-001			08/25/11	09/14/11	10/07/11							
	5kV Building Construction Notes	Drwg	820-RE-0004-001			08/25/11	09/14/11								
	5kV Building Skid Frame	Drwg	820-ST-0002-001			08/25/11	09/14/11								
	5kV Building Plan Views	Drwg	820-ST-0005-001			08/25/11	09/14/11								
	5kV Building Elevation 1	Drwg	820-ST-0006-001			08/25/11	09/14/11								
	5kV Building Elevation 2	Drwg	820-ST-0007-001			08/25/11	09/14/11								
	5kV Building Elevation 3	Drwg	820-ST-0008-001			08/25/11	09/14/11								
	5kV Building Elevation 4	Drwg	820-ST-0009-001			08/25/11	09/14/11								
STRUC-1-48.0	ADMIN/CONTROL/WT/HAZARDOUS STORAGE BUILDING FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-001	8/20/2011	8/20/2011					9/24/2011	9/24/2011				
	ADMIN/CONTROL/WT/HAZARDOUS STORAGE BUILDING FOUNDATION	Calc		8/20/2011	8/20/2011					9/24/2011	9/24/2011				
~~**STRUC-1-49.0**~~	~~AIR DRYER, AIR RECIEVER & AIR COMPRESSOR FOUNDATION PILING~~	~~Calc~~		6/18/2011	6/18/2011					7/21/2011	7/21/2011				
	~~AIR DRYER, AIR RECIEVER & AIR COMPRESSOR FOUNDATION PILING PLAN~~	~~Drwg~~	~~SF-070~~	6/18/2011	6/18/2011					7/21/2011	7/21/2011				
STRUC-1-50.0	AIR DRYER, AIR RECIEVER & AIR COMPRESSOR FOUNDATION	Calc		8/20/2011	8/20/2011					9/24/2011	9/24/2011				
	AIR DRYER, AIR RECIEVER & AIR COMPRESSOR FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-071	8/20/2011	8/20/2011					9/24/2011	9/24/2011				
STRUC-1-51.0	FUEL GAS COMPRESSORS & ENCLOSURE PILES	Calc		~~9/3/2011~~	~~9/3/2011~~					~~10/8/2011~~	~~10/8/2011~~				
	FUEL GAS COMPRESSORS & ENCLOSURE PLAN, SECTIONS AND DETAILS PILES	Drwg													
STRUC-1-52.0	FUEL GAS COMPRESSORS & ENCLOSURE FOUNDATION	Calc		9/3/2011	9/16/2011					10/8/2011	10/8/2011				
	FUEL GAS COMPRESSORS & ENCLOSURE FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-042	9/3/2011	9/16/2011					10/8/2011	10/8/2011				
STRUC-1-52.1	FUEL GAS COMPRESSOR FIN FAN FOUNDATION														
	FUEL GAS COMPRESSORS & ENCLOSURE FOUNDATION SECTIONS AND DETAILS	Drwg	SF-043	9/3/2011	9/16/2011					10/8/2011	10/8/2011				
STRUC-1-53.0	FUEL GAS COMPRESSOR DRAIN TANK	Calc	910D-05	9/7/2011	9/7/2011	08/31/11			09/16/11	10/12/2011	10/12/2011	10/3/2011			
	FUEL GAS CHROMATOGRAPH FOUNDATION	Calc	910R-09	9/7/2011	9/7/2011	08/31/11			09/16/11			10/3/2011			
	FUEL GAS REGULATING SKID FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-045	9/7/2011	9/7/2011	08/31/11			09/16/11	10/12/2011	10/12/2011	10/3/2011			
STRUC-1-53.1	FUEL GAS COPRESSOR TANK VENDOR INFO	V DRWG	551-ME-0001-01			10/04/11									
	30 OD 200 GALLON FUEL GAS COMPRESSOR DRAINS TANK	V DRWG	551-CA-0001-001			10/04/11									
~~**STRUC-1-54.0**~~	~~WATER TREATMENT ELECTRICAL ENCLOSURE FOUNDATION~~	~~Calc~~		~~9/20/2011~~	~~9/20/2011~~					~~10/25/2011~~	~~10/25/2011~~				
	~~WATER TREATMENT ELECTRICAL ENCLOSURE FOUNDATION PLAN~~	~~Drwg~~	~~SF-080~~	~~9/20/2011~~	~~9/20/2011~~					~~10/25/2011~~	~~10/25/2011~~				
STRUC-1-55.0	SWITCHYARD ELECTRICAL BUILDING FOUNDATION	Calc		10/13/2011	10/13/2011					11/17/2011	11/17/2011				
	SWITCHYARD ELECTRICAL BUILDING FOUNDATION PLAN	Drwg	SF-093	10/13/2011	10/13/2011					11/17/2011	11/17/2011				

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STRUC-1-56.0	PAD MOUNTED TRANSFORMERS FOUNDATION PLANS - GSU	Drwg	SF-099	10/29/2011	10/29/2011					12/15/2011	12/15/2011				
	PAD MOUNTED TRANSFORMERS FOUNDATION PLANS - GSU	Drwg	SF-100	10/29/2011	10/29/2011					11/15/2011	11/15/2011				
STRUC-1-57.0	PORTABLE COMBUSTION TURBINE WASH SKID FOUNDATION	Calc		10/29/2011	10/29/2011					12/15/2011	12/15/2011				
	PORTABLE COMBUSTION TURBINE WASH SKID FOUNDATION PLAN	Drwg	SF-072	10/29/2011	10/29/2011					11/15/2011	11/15/2011				
STRUC-1-58.0	FM200 FIRE PROTECTION SKID FOUNDATION	Calc		11/17/2011	11/17/2011					12/22/2011	12/22/2011				
	FM200 FIRE PROTECTION SKID FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-050	11/17/2011	11/17/2011					12/22/2011	12/22/2011				
STRUC-1-59.0	SCR & STACK FOUNDATION	Calc	910O-02	6/1/2011	6/1/2011	09/21/11				7/14/2011	7/14/2011				
	SCR SYSTEM FOUNDATION PLAN	Drwg	SF-021	6/1/2011	6/1/2011	09/21/11				7/14/2011	7/14/2011				
	SCR SYSTEM FOUNDATION PRE-POUR EMBEDMENT PLAN	Drwg	SF-022	6/1/2011	6/1/2011	09/21/11				7/14/2011	7/14/2011				
	SCR SYSTEM FOUNDATION POST-POUR EMBEDMENT PLAN	Drwg	SF-023	6/1/2011	6/1/2011	09/21/11				7/14/2011	7/14/2011				
	SCR SYSTEM FOUNDATION SECTIONS AND DETAILS	Drwg	SF-024	6/1/2011	6/1/2011	09/21/11									
	SCR SYSTEM FOUNDATION SECTIONS AND DETAILS	Drwg	SF-024A	6/1/2011	6/1/2011	09/21/11									
	SCR SYSTEM FOUNDATION ANCHOR BOLT SECTIONS AND DETAILS	Drwg	SF-025	6/1/2011	6/1/2011	09/21/11									
	SCR SYSTEM FOUNDATION ANCHOR BOLT SECTIONS AND DETAILS	Drwg	SF-025A	6/1/2011	6/1/2011	09/21/11									
STRUC-1-60.0	GENERAL PAINTING	TSpc	980							12/24/2011					
STRUC-1-61.0	AUX TRANSFORMER ACCESS STEEL	Calc		11/23/2011	11/23/2011					1/6/2012	1/6/2012				
	AUX TRANSFORMER ACCESS STEEL PLANS AND DETAILS	Drwg	ST-003	11/23/2011	11/23/2011					1/6/2012	1/6/2012				
STRUC-1-62.0	STRUCTURAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND	Drwg	SN-000							12/30/2011	02/02/11	03/10/11	03/29/11	07/18/00	07/20/11
STRUC-1-63.0	CTG ACCESS PLATFORMS	Calc		11/18/2011	11/18/2011					12/23/2011	12/23/2011				
	CTG ACCESS PLATFORMS DETAILS	Drwg	ST-007	11/18/2011	11/18/2011					12/23/2011	12/23/2011				
	CTG ACCESS PLATFORMS DETAILS	Drwg	ST-008	11/18/2011	11/18/2011					12/23/2011	12/23/2011				
	CTG ACCESS PLATFORMS PLAN	Drwg	ST-005	11/18/2011	11/18/2011					12/23/2011	12/23/2011				
	CTG ACCESS PLATFORMS PLANS AND DETAILS	Drwg	ST-006	11/18/2011	11/18/2011					12/23/2011	12/23/2011				
STRUC-1-64.0	CTG STEP-UP TRANSFORMER STEEL	Calc		12/7/2011	12/7/2011					1/18/2012	1/18/2012				
	CTG STEP-UP TRANSFORMER STEEL PLANS AND DETAILS	Drwg	ST-002	12/7/2011	12/7/2011					1/18/2012	1/18/2012				
STRUC-1-65.0	ISOPHASE STEEL PLAN, SECTIONS AND DETAILS	Drwg	ST-001	11/18/2011	11/18/2011					1/2/2012	1/2/2012				
STRUC-1-66.0	STRUCTURAL STEEL LOCATION PLAN	Drwg	ST-000	7/12/2011	7/12/2011					8/3/2011	8/3/2011				
STRUC-1-67.0	TYPICAL BASEPLATE AND BRACING SECTIONS AND DETAILS	Drwg	ST-200	12/20/2011	12/20/2011					2/1/2012	2/1/2012				
	TYPICAL EDGE CONDITION SECTIONS AND DETAILS	Drwg	ST-201	12/20/2011	12/20/2011					2/1/2012	2/1/2012				
	TYPICAL LADDER SECTIONS AND DETAILS	Drwg	ST-202	12/20/2011	12/20/2011					2/1/2012	2/1/2012				
	TYPICAL STAIR SECTIONS AND DETAILS	Drwg	ST-203	12/20/2011	12/20/2011					2/1/2012	2/1/2012				
	TYPICAL HANDRAIL SECTIONS AND DETAILS	Drwg	ST-204	12/20/2011	12/20/2011					2/1/2012	2/1/2012				
STRUC-1-68.0	CONCRETE COATINGS	TSpc	981												
~~**STRUC-1-70.0**~~	~~CONSTRUCTION TEMPORARY WAREHOUSE BUILDING FOUNDATION~~	~~Calc~~	~~990H-01~~			~~02/25/11~~									~~03/21/11~~
	~~TEMPORARY CONSTRUCTION WAREHOUSE BUILDING FOUNDATION PLAN, SECTIONS AND DETAILS~~	~~Drwg~~	~~SF-120~~			~~02/25/11~~			~~03/21/11~~		~~04/22/11~~				
STRUC-1-70.1	Construction Warehouse Foundation	Calc	911D-01		07/01/11	07/21/11	09/01/11				09/15/11				
	CONSTRUCTION WAREHOUSE FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-120		07/01/11	07/21/11	09/01/11				09/15/11				
	STRUCTURAL DESIGN DATA		990H-CA-0001-001			07/21/11	09/01/11				09/15/11				
	VP BUILDINGS PACKAGE		990H-GA-0001-001			07/21/11	09/01/11				09/15/11				
STRUC-1-71.0	CONSTRUCTION MAINTENANCE BUILDING SLAB	Calc	990H-02			03/04/11									3/25/11/
	TEMPORARY CONSTRUCTION EQUIPMENT MAINTENANCE SLAB FOUNDATION MAINTENANCE SLAB FOUNDATION PLAN, SECTIONS AND DETAILS	Drwg	SF-121			03/04/11			03/25/11			3/25/11/			3/28/11/
STRUC-1-72.0	CONSTRUCTION TEMPORARY TRANSFORMER & SWITCHBOARD FOUNDATIONS	Calc	914Z-01				03/15/11	03/25/11				03/07/11		04/25/11	04/26/11
	TEMPORARY CONSTRUCTION FOUNDATIONS PLANS AND SECTIONS	Drwg	SF-123			03/07/11	03/15/11	03/25/11							03/30/11
STRUC-1-73.0	CONSTRUCTION XFMR SLAB	Calc	914Z-04			06/17/11	06/22/11					07/07/11			07/27/11
	TEMPORARY CONSTRUCTION TRANSFORMER FOUNDATION PLAN AND SECTION	Drwg	SF-122			06/17/11	06/22/11					07/07/11			07/27/11
STRUC-1-74.0	ELECTRICAL MANHOLE MH-2 12X12X8	CALC	12X12X8		08/31/11				09/16/11			09/16/11			09/19/11

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	ELECTRICAL MANHOLE MH-1 12X12X9 PREC. MANHOLE	CALC	12X12X9		08/31/11				09/16/11			09/16/11			09/19/11
	ELECTRICAL MANHOLE MH-2 12X12X8 PREC. MANHOLE	V DRWG	030-S141287-002		08/31/11				09/16/11			09/16/11			09/19/11
	ELECTRICAL MANHOLE MH-1 12X12X9 PREC. MANHOLE	V DRWG	030-S141287-001		08/31/11				09/16/11			09/16/11			09/19/11
	ELECTRICAL MANHOLE MH-3	CALC	12X12X10		08/31/11				09/16/11			09/16/11			09/19/11
	ELECTRICAL MANHOLE MH-3 12X12X10 PREC. MANHOLE	V DRWG	030-S141287-003		08/31/11				09/16/11			09/16/11			09/19/11
STRUC-1-80.0	STRUCTURAL DESIGN CRITERIA	Misc.	SDC-001			03/04/11	03/25/11	03/29/11	03/29/11			08/19/11			08/29/11
TSE-1															
TSE-1-1.0	Master Lists			3/15/2011											
	SWITCHYARD EQUIPMENT & MATERIAL LIST		PD01												
	Drawing List														
	Spec List														
	Submittal List														
TSE-2-1.0	CE1RESUME - CIVIL ENGINEER RESUME - OMAR OLIVARES					01/27/11									02/15/11
	EE1RESUME - ELECTRICAL ENGINEER RESUME - CHARLIE SCHWARTZE					01/27/11									02/15/11
	ME1RESUME - MECHANICAL ENGINEER RESUME - JAKE ALBERS					01/27/11									02/15/11
	SE1RESUME - STRUCTURAL ENGINEER RESUME - F. GENE AMRHEIN					01/27/11									02/15/11
	GE1RESUME -GEOLOGIST RESUME - PHILIP MEYMAND					01/27/11									02/15/11
	EE2RESUME - ELECTRICAL ENGINEER RICH JACOBERS					05/25/11									05/27/11
	SE4RESUME - STRUCTURAL ENGINEER RESUME - REID STRAIN					06/24/11									06/30/11
	EE3RESUME - ELECTRICAL ENGINEER - DAREN PHELPS					09/20/11									09/27/11
TSE-4															
TSE-4-1.0	FINAL DESIGN PLANS/SPECS/CALCULATIONS														
TSE-4-2.0	230kV CIRCUIT BREAKERS	Spec	1054			06/28/11				06/15/11					
TSE-4-3.0	230KV breaker shop drawings	Drwg		August											
TSE-4-4.0	High Voltage Structures and Equipment specification			5/10/2011											
	SWITCHYARD STRUCTURES & EQUIPMENT	Spec	1066							07/14/11					
TSE-4-5.0	High Voltage Structures and Equipment shop drawings			September											
TSE-4-6.0	SWITCHYARD CONTROL/RELAYING	Spec	1057		5/27/2011	06/01/11				07/28/11					REFERENCE
TSE-4-7.0	SWITCHYARD ONE-LINE DIAGRAM UNITS 1 AND 2 230KV SWITCHYARD AND TRANSMISSION	Drwg	PDS-001	10/17/2011	10/17/2011	05/13/11			05/20/11	12/14/11	12/14/11				
	SWITCHYARD ONE-LINE DIAGRAM UNITS 3 AND 4 230KV SWITCHYARD AND TRANSMISSION	Drwg	PDS-002			05/13/11			05/20/11						
	SWITCHYARD ONE-LINE DIAGRAM AC & DC STATION SERVICE	Drwg	PDS-030	10/17/2011	10/17/2011	05/13/11			05/20/11	12/14/11	12/14/11				
TSE-4-8.0	Switchyard AC Station Service One-line Drawing & Distribution Panel Drawing	Drwg	PDS-035	10/17/2011	10/17/2011					12/14/11	12/14/11				
TSE-4-9.0	Switchyard Three-Line Diagram	Drwg	PDS-010	10/28/2011	10/28/2011					01/12/12	01/12/12				
	Switchyard Three-Line Diagram	Drwg	PDS-011	10/28/2011	10/28/2011					01/12/12	01/12/12				
	Switchyard Three-Line Diagram	Drwg	PDS-012	10/28/2011	10/28/2011					01/12/12	01/12/12				
TSE-5															
TSE-5-1.0	SWITCHYARD AND T-LINE DESIGN CRITERIA DOCUMENT	070H	PDSDC-01	3/15/2011	4/6/2011	04/18/11	05/05/11		Reference						
TSE-5-2.0	H-Frame / Monopole Drilled Pier Drawing	Drwg	PDS-730	11/11/2011	11/11/2011					12/09/11	12/09/11				
	Switchyard Breaker Foundation Drawing	Drwg	PDS-731	11/11/2011	11/11/2011					12/09/11	12/09/11				
	Switchyard CCVT / CTPT Support Foundation Drawings	Drwg	PDS-732	11/11/2011	11/11/2011					12/09/11	12/09/11				
	Switchyard Control Module Foundation Drawings	Drwg	PDS-733	11/11/2011	11/11/2011					12/09/11	12/09/11				
	Switchyard Rigid Bus / Disconnect Switch Support Foundation Drawings	Drwg	PDS-734, PDS-735	11/11/2011	11/11/2011					12/09/11	12/09/11				
	H-Frame / Monopole Drilled Pier Calculations	Calculation	PD04 -TBD	11/11/2011	11/11/2011					12/09/11	12/09/11				
	Switchyard Euipment Foundations Calculations	Calculation	PD05 - TBD	11/11/2011	11/11/2011					12/09/11	12/09/11				
TSE-5-3.0	1066-CA-0001-001 Transmission Structures Calcs	Calculation	1066-CA-0001-001	9/29/2011											
	1066-CA-0002-001 Equipment Structures Calcs	Calculation	1066-CA-0002-001	9/29/2011											

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TSE-5-3.1	EQUIPMENT STRUCTURES	V CALC	1066-CA-0002-001			09/29/11									
	TRANSMISSION STRUCTURES	V CALC	1066-CA-0001-001			09/29/11									
TSE-5-4.0	Switchyard General Arrangement Drawing	Drwg	PDS-500	10/6/2011	5/20/2011				06/07/11	11/11/11	11/11/11	05/20/11			
	Switchyard Detail Arrangement Drawing Unit 1	Drwg	PDS-501	10/6/2011	5/20/2011				06/07/11			05/20/11			
	Switchyard Detail Arrangement Drawing Units 2& 3	Drwg	PDS-502	10/6/2011	5/20/2011				06/07/11			05/20/11			
	Switchyard Detail Arrangement Drawing Unit 4	Drwg	PDS-503	10/6/2011	5/20/2011				06/07/11			05/20/11			
	Switchyard Bill of Material	Drwg	PDS-505	10/6/2011	5/20/2011				06/07/11			05/20/11			
	Switchyard Elevation Drawing UNITS 1 & 2	Drwg	PDS-510	10/6/2011	5/20/2011				06/07/11	11/11/11	11/11/11	05/20/11			
	Switchyard Elevation Drawing UNITS 3 & 4	Drwg	PDS-511	10/6/2011	5/20/2011				06/07/11	11/11/11	11/11/11	05/20/11			
	~~GSU Transformer Take-off General Arrangement~~	~~Drwg~~	~~PDS-512~~	~~10/6/2011~~					~~06/07/11~~						
	GSU Transformer Take-off Elevation Drawing	Drwg	PDS-513	10/6/2011	5/20/2011				06/07/11	11/11/11	11/11/11	05/20/11			
	~~Switchyard Details Drawing~~	~~Drwg~~	~~PDS-514~~	~~10/6/2011~~					~~06/07/11~~						
	~~Switchyard Bill of Material Drawing~~	~~Drwg~~	~~PDS-515~~	~~10/6/2011~~					~~06/07/11~~						
TSE-5-5.0	SWITCHYARD H-FRAME AND T-LINE STRUCTURE LOADING	Drwg	PDS-700	9/23/2011	9/23/2011					10/28/11	10/28/11				
	SWITCHYARD BUS SUPPORT AND EQUIPMENT STAND LOADING	Drwg	PDS-701	9/23/2011	9/23/2011					10/28/11	10/28/11				
TSE-5-5.1	Plan & Profile Drawing Units 1 & 2 230 KV Generating Tie Line to PG&E Switchyard	Drwg	PDT-800	9/23/2011	9/23/2011	05/23/11			05/07/11	10/28/11	10/28/11				
	Plan & Profile Drawing Units 3 & 4 230 KV Generating Tie Line to PG&E Switchyard	Drwg	PDT-801	9/23/2011	9/23/2011	05/23/11			5/7/2011						
TSE-5-6.0	Switchyard Grounding Plan Drawing	Drwg	PDS-560	10/20/2011	10/20/2011					11/18/11	11/18/11				
	Switchyard Grounding Details Drawing	Drwg	PDS-561	10/20/2011	10/20/2011					11/18/11	11/18/11				
TSE-5-7.0	Switchyard Raceway Plan Drawing	Drwg	PDS-540	11/16/2011	11/16/2011					01/16/12	01/16/12				
	Switchyard Raceway Details Drawing	Drwg	PDS-541	11/16/2011	11/16/2011					01/16/12	01/16/12				
TSE-5-8.0	CB1 Breaker Schematic - Close / Trip Coil 1	Drwg	PDS-100	1/31/2012	1/31/2012					12/02/11	12/02/11				
	CB1 Breaker Schematic - Trip Coil 2	Drwg	PDS-101	1/31/2012	1/31/2012					12/02/11	12/02/11				
	CB2 Breaker Schematic - Close / Trip Coil 1	Drwg	PDS-110	1/31/2012	1/31/2012					12/02/11	12/02/11				
	CB2 Breaker Schematic - Trip Coil 2	Drwg	PDS-111	1/31/2012	1/31/2012					12/02/11	12/02/11				
	CB3 Breaker Schematic - Close / Trip Coil 1	Drwg	PDS-120	1/31/2012	1/31/2012					12/02/11	12/02/11				
	CB3 Breaker Schematic - Trip Coil 2	Drwg	PDS-121	1/31/2012	1/31/2012					12/02/11	12/02/11				
	CB4 Breaker Schematic - Close / Trip Coil 1	Drwg	PDS-130	1/31/2012	1/31/2012					12/02/11	12/02/11				
	CB4 Breaker Schematic - Trip Coil 2	Drwg	PDS-131	1/31/2012	1/31/2012					12/02/11	12/02/11				
	CB5 Breaker Schematic - Close / Trip Coil 1	Drwg	PDS-140	1/31/2012	1/31/2012					12/02/11	12/02/11				
	CB5 Breaker Schematic - Trip Coil 2	Drwg	PDS-141	1/31/2012	1/31/2012					12/02/11	12/02/11				
	CB6 Breaker Schematic - Close / Trip Coil 1	Drwg	PDS-150	1/31/2012	1/31/2012					12/02/11	12/02/11				
	CB6 Breaker Schematic - Trip Coil 2	Drwg	PDS-151	1/31/2012	1/31/2012					12/02/11	12/02/11				
	T-Line #1 & T-Line #2 Motor-Operated Disconnect Switch Schematic	Drwg	PDS-160	1/31/2012	1/31/2012					12/02/11	12/02/11				
	Motor-Operated Disconnect Switch Schematic	Drwg	PDS-161	1/31/2012	1/31/2012					12/02/11	12/02/11				
	Motor-Operated Disconnect Switch Schematic	Drwg	PDS-162	1/31/2012	1/31/2012					12/02/11	12/02/11				
	T-Line #1 - Primary Line Relaying Schematic	Drwg	PDS-170	1/31/2012	1/31/2012					12/02/11	12/02/11				
	T-Line #1 - Back-up Line Relaying Schematic	Drwg	PDS-172	1/31/2012	1/31/2012					12/02/11	12/02/11				
	T-Line #2 - Primary Line Relaying Schematic	Drwg	PDS-174	1/31/2012	1/31/2012					12/02/11	12/02/11				
	T-Line #2 - Back-up Line Relaying Schematic	Drwg	PDS-176	1/31/2012	1/31/2012					12/02/11	12/02/11				
	Breaker Failure (50BF) & Synch-check (25) Schematic	Drwg	PDS-180	1/31/2012	1/31/2012					12/02/11	12/02/11				
	Breaker Failure (50BF) & Synch-check (25) Schematic	Drwg	PDS-181	1/31/2012	1/31/2012					12/02/11	12/02/11				
	Breaker Failure (50BF) & Synch-check (25) Schematic	Drwg	PDS-182	1/31/2012	1/31/2012					12/02/11	12/02/11				
	Breaker Failure (50BF) & Synch-check (25) Schematic	Drwg	PDS-183	1/31/2012	1/31/2012					12/02/11	12/02/11				
	Breaker Failure (50BF) & Synch-check (25) Schematic	Drwg	PDS-184	1/31/2012	1/31/2012					12/02/11	12/02/11				
	Breaker Failure (50BF) & Synch-check (25) Schematic	Drwg	PDS-185	1/31/2012	1/31/2012					12/02/11	12/02/11				
	T-Line #1 Revenue Metering Schematic	Drwg	PDS-190	1/31/2012	1/31/2012					12/02/11	12/02/11				
	RTU Schematic	Drwg	PDS-195	1/31/2012	1/31/2012					12/02/11	12/02/11				
TSE-5-9.0	DRILLED PIERS FOR POWER DELIVERY STRUCTURES	SPEC	912B			09/16/11									
TSE-7	AS BUILTS	Drwg													
Temporary Facilities															

Condition	Title	Deliverable Type	Deliverable No	Target Release Date IFR	Forecast Release Date IFR	ACTUAL SUBMITTAL DATE	CBO COMMENTS	RESUBMITTAL DATE	CBO APPROVED	Target Release Date IFC	Forecast Release IFC	ACTUAL SUBMITTAL DATE	CBO COMMENTS	RESUBMITTAL DATE	CBO APPROVED
Temporary Facilities-1.0	Temporary Facilities				01/25/11	01/25/11		03/01/11							03/24/11
	UM2 CONNECTIONS														09/13/11
Temporary Facilities-2.0	Electrical One Line Diagram Overall Temporary Power	Drwg	EO-300		02/11/11	02/11/11	02/23/11	03/04/11	03/24/11					05/25/11	03/24/11
	Electrical Panel Schedules Overall Temporary Power	Drwg	EP-300		02/11/11	02/11/11	02/23/11	03/04/11	03/24/11						03/24/11
Temporary Facilities-3.0	Temp Concrete 4000psi														03/18/11
Temporary Facilities-4.0	TEMPORARY TIMBER DECKS FOR SITE CONSTRUCTION TRAILERS	CALC	914Z-02			07/27/11	08/19/11								
Approved Fabricators-1.0	Martix														
Comments															
Submitted															
Approved															
Fire Marshall Review															

Subsection 2.11(CUL-5)

As of -9-30-2011

Worker Environmental Awareness Program Matrix

Date	**Numbers**
9/30/2011	21
Total	**21**

Marsh Landing Generating Station

WORKER ENVIRONMENTAL AWARENESS PROGRAM
WORKER TRAINING ATTENDANCE RECORD

Trainer: Raja Ponniah
Date: 8/30/2011
Training: WEAP
(for office use only)

I have attended the Marsh Landing Generating Station Project **Worker Environmental Awareness Program Worker Training** and understand and agree to comply with all environmental requirements presented. I understand that I am accountable for my actions and that failure to comply with the requirements may be grounds for immediate removal from the project and/or legal action.

	SIGNATURE	PRINT NAME	COMPANY/AFFILIATION	Date
1.				
2.	Sean Crane	SEAN CRANE	CCS	8/30/11
3.	Ryan J. Blev	Ryan Blevens	CCS	8/30/11
4.		Axel Anderslon	CCS	8/30/11
5.	Jon Montoya	Jon Montoya	CCS	8/30/11
6.	Adrian Sanchez	Adrian Sanchez	CCS	8/30/11
7.		Nathaniel Pritzl	CCS	9/1/11
8.		Larry Singleton	CCS	9/1/11
9.		Maurice Ward Jr	FCI	9/6/11
10.	Bob Ford	Bob Ford	PKS	9-6-11
11.	Kevin Bertoseck	Kevin W Bertoseck	PKS	9611
12.	Greg Gilman	Greg Gilman	PKS	9611
13.	Craig Azevedo	Craig Azevedo	PKS	9-6-11
14.	Kathleen Kuba	Kathleen Kubat	URS	9/6/11
15.		JAMES GREGG	KIEWIT	9/7/11
16.	Michael Nicholas	Michael Nicholas	Foundation	9/8/11
17.		STACY BALL	URS	9-8-11
18.	Juliana Avalos	JULIANA AVALOS	PKS	9/08/11
19.				
20.				

Marsh Landing Generating Station

WORKER ENVIRONMENTAL AWARENESS PROGRAM
WORKER TRAINING ATTENDANCE RECORD

Trainer: Raja Ponnada / Eric Campbell
Date: Sept 2011
Training: WEAP
(for office use only)

I have attended the Marsh Landing Generating Station Project Worker Environmental Awareness Program Worker Training and understand and agree to comply with all environmental requirements presented. I understand that I am accountable for my actions and that failure to comply with the requirements may be grounds for immediate removal from the project and/or legal action.

	SIGNATURE	PRINT NAME	COMPANY/AFFILIATION	Done Draft
1.		Justin Scott	Fremont Env.	
2.		LAURA TINGELSTAD	KIEWIT	
3.		MICHAEL MATHISEN	KIEWIT	
4.		STAN HARRIS	KIEWIT	PF
5.		DAVE HERWAT	KIEWIT	PF
6.		RAYMOND RUBY	FOUNDATION	RAP
7.		Christina RAMOS	KIEWIT	
8.		EDITH BUDDE	KIEWIT	
9.		Dee Mains	Kiewit	
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

Cultural Resources Report Subsection 2.12

Marsh Landing Generating Station (08-AFC-3C)

September 2011

October 10, 2011

Christine Stora
Compliance Project Manager
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814-5512

RE: Marsh Landing Generating Station (08-AFC-3C) Monthly Monitoring Summary Report, Cultural Resources

Dear Ms. Stora:

In accordance with CUL-6 of the California Energy Commission's (CEC's) Conditions for Certification (COCs), this letter report summarizes the cultural resources monitoring activities which took place at the Marsh Landing Generating Station (MLGS) construction site in September 2011.

Project Description

The proposed MLGS site is located in unincorporated Contra Costa County, California, approximately one-tenth of a mile from the current City of Antioch limits and just west of State Route (SR) 160. Surrounding land uses include the existing Contra Costa Power Plant (CCPP) to the north, east and south, the Pacific Gas and Electric (PG&E) electrical switchyard to the south, the PG&E Gateway Generating Station to the east, a large vacant lot that was previously used for industrial (paper making) purposes to the west, and the San Joaquin River to the north.

The MLGS site will occupy approximately 27 acres on the western portion of the CCPP site formerly occupied by five #6 fuel oil tanks and an area to the east of the former tank farm. The proposed MLGS site, construction laydown areas, and project linear routes are mostly contained within the existing CCPP property and are highly disturbed or developed due to ongoing CCPP operations, recently completed demolition of five fuel oil tanks on the site, and construction of the Gateway Generating Station. The project includes a new wastewater pipeline to convey process and sanitary wastewater to the City of Antioch's sewer main on Wilbur Avenue. The majority of the MLGS site is composed of paved, graveled, or bare ground surfaces with very sparse ruderal and ornamental vegetation.

Cultural Resources Monitoring

In accordance with Condition of Certification CUL-6, to ensure that there are no impacts to undiscovered resources, the Cultural Resources Specialist (CRS) or Cultural Resources Monitors (CRMs) will monitor full-time all ground disturbing activities on the project site, at the laydown areas, along the linear facility routes, and at roads or other ancillary areas, for as long as the activities are ongoing.

Full- time archaeological monitoring requires at least one monitor per excavation area where earthmoving equipment is actively removing native soils. If an excavation area is too large for one monitor to effectively observe the soil removal, one or more additional monitors are retained to observe the area.

In the event that the CRS determines that the current level of monitoring is not appropriate in certain locations, the CEC's Compliance Project Manager (CPM) shall be notified by letter or e-mail detailing the justification for the change in the level of monitoring. This request will be reviewed and must be approved by the CPM prior to any change in monitoring level.

Cultural resources monitoring activities are the responsibility of the CRS. Any interference with monitoring activities, removal of a monitor from duties assigned by the CRS, or direction to a monitor to

relocate monitoring activities by anyone other than the CRS shall be considered non-compliance with the COCs.

Monitoring Activities

Cultural resources monitoring activities at the MLGS site for the month of September included monitoring utility potholing, trenching, and excavation for pile driving. Monitoring took place from September 1 through September 30, 2011. One CRM was on site during all excavation activities. Pile driving only took place on September 21-23, 2011. A spot check was performed on September 23, 2011. No cultural materials over 50 years of age were discovered during monitoring.

In addition to monitoring ground disturbing activities, the CRM periodically surveyed all recently disturbed surface soils throughout the project site. No cultural materials, soil changes suggesting archaeological deposition, or other constituents such as charcoal or bone were observed. Activities and observations are summarized in Table 1 below, and Daily Monitoring Logs are attached to this letter report.

Table 1. Summary of Cultural Resources Monitoring Activities September 2011.

Date	Monitors	Activities/Observations	Discoveries
09.01.2011	Ben Elliott	Monitored Powerblock one (units 1 & 2) and the pile driving to the north. Maximum depth of excavation 6-8 feet below ground surface (bgs). Stratigraphy was unclear but soils were disturbed to at least 5 feet bgs by recent construction activity.	None
09.02.2011	Joe Fayer	Monitored pile driving and trenching in powerblock area. Depth of trenching to 8 feet bgs within previously disturbed soils, with native soils observed at 6-8 feet bgs.	None
09.06.2011	Ben Elliott	Monitored pile driving and trenching in powerblock area. Maximum depth of trenching, 6.5 feet bgs. No stratigraphy visible, all soils homogenous sand.	None
09.07.2011	Ben Elliott	Monitored pile driving and trenching in powerblock area. Maximum depth of trenching, 7 feet bgs. No stratigraphy visible, all soils homogenous sand.	None
09.08.2011	Ben Elliott	Monitored pile driving and excavation in powerblock to depth of 7 feet. Possible native soils noted below 5 feet and at 10-15 feet bgs in pile auger backdirt.	None

Date	Monitors	Activities/Observations	Discoveries
09.09.2011	Ben Elliott	Monitored pile driving and excavation in powerblock to depth of 7 feet. Possible native soils noted below 5 feet and at 10-15 feet bgs in pile auger backdirt.	None
09.12.2011	Maureen Kick	Monitored pile driving and trenching for duct bank B to a depth of 4 feet. Presumed native soils at bottom 2 feet.	None
09.13.2011	Kat Kubal	Monitored pile driving and trenching for duct bank to a depth of 5 feet bgs. Soils were sandy loam with layers of former roadbed visible as angular gravel 2' below surface.	None
09.14.2011	Maureen Kick	Monitored pile driving and trenching in powerblock area to a depth of less than than 4 ft. bgs wholly within redeposited soils.	None
09.15.2011	Ben Elliott	Monitored pile driving and excavation for firewater line to a depth of 12 feet. Native soils observed in pile auger backdirt; trenching appears to be completely within redeposited soils.	None
09.16.2011	Kat Kubal	Monitored pile driving and excavation for duct banks within powerblock to a depth of 4 feet. No native soils observed.	None
9.19.2011	Ben Elliott	Monitored excavation of firewater trench to a depth of 5 feet and spot monitored pile driving. All soils in firewater trench are previously disturbed/redeposited.	None

Date	Monitors	Activities/Observations	Discoveries
09.20.2011	Ben Elliott	Monitored pile driving and trenching for fire water line to a depth of 12 feet bgs. Pile auger is likely in native soils however trenching is in disturbed soils only.	None
09.23.2011	Kat Kubal	Monitored pile driving and excavation for duct bank in powerblock area. All trenching in previously disturbed soils to a depth of 4 feet.	None
09.26.2011	Kat Kubal	Monitored pile driving and excavation of duct bank trenches to a depth of 4 feet below surface. Some native soils noted on the north side of duct bank C; although most trenching was within previously disturbed soils.	None
09.27.2011	Ben Elliott	Monitored pile driving and excavation of duct bank trenches to a depth of approximately 10 feet. All soils appear to be disturbed/redeposited.	None
09.28.2011	Kat Kubal	Monitored pile driving and duct bank trenching to 6-8 feet. Upper levels disturbed/redeposited. Native soils observed at base of excavation.	None
09.29.2011	Jay Baker	Monitored trenching in powerblock and pile driving. Depth of trenching approximately 10 feet; native soils observed at 8-10feet.	None
09.30.2011	Jay Baker	Monitored trenching in powerblock and pile driving. Depth of trenching approximately 10 feet; native soils observed at 8-10feet.	None

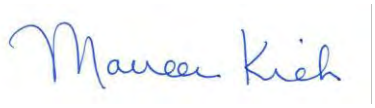
Conditions/LORS Compliance

No instances of non-compliance with the Conditions of Certification or applicable LORS were recorded.

Summary and Conclusions

Cultural resources monitoring took place between September 1 and September 30, 2011. One CRM was onsite during excavation activities. Pile driving was spot monitored throughout the month of September. All ground disturbing activities throughout the MLGS project area were monitored. No cultural resources

were discovered. Monitoring is ongoing, and will continue full-time for all excavation activities except pile driving, which will be spot monitored.



Sincerely,

Maureen Kick
Cultural Resources Specialist, Marsh Landing Generating Station

Attachments: Monitoring Logs

cc: David Frandsen, GenOn
Nick Hontuchan, GenOn
Anne Connell, URS

Attachment A

Daily Cultural Resources Monitoring Logs
September 2011
Marsh Landing Generating Station

Appendix C: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 09/01/11 Monitor Name: B. ELLIOTT (URS) 0700 - 1545 HRS

Weather Conditions: SUNNY / CLEAR. WINDY
Hours on Site Not Worked and Reason: ——
Work Location (Project Component): POWER BLOCK ONE UNITS 1 & 2. PILE DRIVING TO NORTH.
Work Type (Machine): 2 TRACK MOUNTED EXCAVATORS. 2 PILE DRIVERS.
Depth of Excavation: MAX DEPTH OF 6-8' AMSL. PILE AUGER TO 22'-30' BELOW SURFACE GRADE.
Observed Native Soils (Stratigraphy): UNCLEAR. DISTURBED TO AT LEAST 5' AMSL
Disturbed/Redeposited Soils: → BY RECENT CONSTRUCTION ACTIVITY.
Features:
Ø

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

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):
Ø

UNIT 1 DUCT BANK COMPLETED (EXCAVATION): 1030 HRS
UNIT 2 DUCT BANK COMMENCED: 0900 HRS
(ONE TRACT MOUNTED EXCAVATOR / DUCT BANK)

Appendix D: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 9/2/11 Monitor Name: J. Fayer

Weather Conditions: Sunny & Warm
Hours on Site Not Worked and Reason:
Work Location (Project Component): Power Block
Work Type (Machine): Pile Driving & Excavation
Depth of Excavation: 50' bgs & 8' bgs
Observed Native Soils (Stratigraphy): Yes
Disturbed/Redeposited Soils: Yes
Features:
N/A

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

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):
N/A
* No Finds today. *
- Foundation Contractor to drive piles. Two pile driving rigs operating. Pre-drilling to 30', driving piles to 50'. Spoils from pre drilling inspected. About 12 piles driven.
- Kiewit excavating duct banks in Power block in unit 2. Excavation conducted by two trenches, to a depth of 8' bgs. 0-6' is redeposited soils, 6-8' is mostly native soil, with ground water seeping in @ 8'.

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Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 09/06/11 Monitor Name: B. ELLIOTT (URS)
0655 - 1430

Weather Conditions: SUNNY / CLEAR, WINDY
Hours on Site Not Worked and Reason: —
Work Location (Project Component): POWER BLOCK ONE, UNIT 2. PILE DRIVING MOVES WEST TOWARDS TRAILERS / OFFICES / PARKING
Work Type (Machine): 2 TRACK MOUNTED EXCAVATORS.
Depth of Excavation: MAX OF 6' @ AMSL IN DUCT BANK. 22'-30' AUGER FOR PILE.
Observed Native Soils (Stratigraphy): UNLIKELY BUT NEARLY IMPOSSIBLE TO DISTINGUISH FILL FROM NATIVE. ALL SOIL IS HOMOGENOUS SAND.
Disturbed/Redeposited Soils:
Features: Ø

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

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling): Ø

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Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 9/7/11 Monitor Name: BEN ELLIOTT (URS)
0730 - 1526

Weather Conditions: SUNNY / CLEAR W/ WIND
Hours on Site Not Worked and Reason: —
Work Location (Project Component): DUCT BANK UNIT 2 / PILE DRIVING
Work Type (Machine): 2 TRACK MOUNTED EXCAVATORS, PILEDRIVERS W/ AUGERS (to ≈ 30' w/ auger)
Depth of Excavation: ~4 to 7' ~~below~~ amsl in UNIT 2 DUCT BANK (max)
Observed Native Soils (Stratigraphy): UNCLEAR IF DUCT BANK EXCAVATION REACHES NATIVE
Disturbed/Redeposited Soils:
Features: Ø

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

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling): Ø

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Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 09/08/11 Monitor Name: B. ELLIOTT (URS) 0715 - 1400

Weather Conditions: SUNNY, WINDY

Hours on Site Not Worked and Reason: ———

Work Location (Project Component): POWER BLOCK 1 - UNITS 1 & 2 / CTG AIRINLET # 3 (PICE)

Work Type (Machine): 2 TRACK MOUNTED EXCVTRS & 2 PILE DRIVERS

Depth of Excavation: AFTER COMPLETING EXC TO ≈ 7' AMSL EXCAVATORS BEGIN BACKFILL FOR REMAINDER OF DAY (1300 - 1530)

Observed Native Soils (Stratigraphy): UNCLEAR. POSSIBLE NATIVE BELOW 5' AMSL

Disturbed/Redeposited Soils: DISTURBED TO 5' AMSL

Features: Ø NOTED NATIVE SOIL AT ≈ 10-15' BELOW SURFACE GRADE IN PILE AUGER BACKDIRT (DARKER BROWN)

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

Ø

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

Ø

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):

Ø

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Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 09/09/11 Monitor Name: B. ELLIOTT (MOS)
0720 - 1400

Weather Conditions: SUNNY - CLEAR. WIND
Hours on Site Not Worked and Reason: —
Work Location (Project Component): POWER BLOCK 1 UNITS 1 and 2 / CTG INLET #3
Work Type (Machine): 3 TRACK MOUNTED EXCVTRS, 1 BOBCAT IN POWER BLOCK 1. 2 PILE DRIVERS IN CTG INLET #3
Depth of Excavation:
Observed Native Soils (Stratigraphy): UNCLEAR. NATIVE POSSIBLE AT 5' AMSL IN THIS AREA
Disturbed/Redeposited Soils: PILE AUGER TO 25-30' BELOW SURFACE GRADE.
UPPER 5±10' ARE DISTURBED BY RECENT CONSTRUCTION.
Features: Ø

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

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):
Ø

EXCAVATION IN DUCT BANKS REMAINS SHALLOW ELEVATION 9' AMSL OR <. LEAVE SITE 1400 HRS SINCE EXCAVATION WILL NOT REACH NATIVE EL 900' AMSL (MAX DEPTH)

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Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 9/12/11 Monitor Name: Maureen Kick

Weather Conditions: Sunny, breezy
Hours on Site Not Worked and Reason: ϕ
Work Location (Project Component): Pile driving in Area B, Duct Bank B
Work Type (Machine): Pile driving, excavation of duct Bank B
Depth of Excavation: ~4 ft below current ground surface
Observed Native Soils (Stratigraphy): poss. bottom two feet of exc. undisturbed.
Disturbed/Redeposited Soils: ϕ
Features:
ϕ

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

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):
No discoveries.

Appendix C: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 9/13/11 Monitor Name: Kathleen Kubal

Weather Conditions: Sunny and windy
Hours on Site Not Worked and Reason:
Work Location (Project Component): Duct Bank
Work Type (Machine): small excavator w/ ~3' bucket
Depth of Excavation: ~5'
Observed Native Soils (Stratigraphy): the soil was sandy loam - the layer of former
Disturbed/Redeposited Soils: roadbed was visible as angular gravel ~2' from
Features: surface

Artifacts (Isolated? Diagnostic? Greater than 50 years? Exceptional? Include description, provenience, stratigraphic context.):
No cultural resources were identified

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):
N/A

Appendix C: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 9/14/11 Monitor Name: Maureen Kirk

Weather Conditions: warm, sunny
Hours on Site Not Worked and Reason:
Work Location (Project Component): pile driving and duct bank
Work Type (Machine): excavator, pile driver, installing conduit/backfilling
Depth of Excavation: < 4 feet below ground surface
Observed Native Soils (Stratigraphy): ϕ
Disturbed/Redeposited Soils: All
Features:

ϕ

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

ϕ

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

ϕ

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):

Spot checked pile driving.
Monitored exc. for duct bank. Max depth of exc. less than 4 ft bgs — not within native soils.

Appendix C: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

STATE FG OFFICER ON-SITE ≈ 1300 - ?

Date: 09/15/11 Monitor Name: B. ELLIOTT (URS) 0655 -

Weather Conditions: SUNNY; CLEAR - LIGHT WIND !

Hours on Site Not Worked and Reason: —

Work Location (Project Component): PILE: CTG AIR INLET #3 / FIREWATER LINE: very NE corner of PA near GENOA offices

FIREWATER EXCAVATION CEASES AT 12:00

Work Type (Machine): 2 PILE DRIVERS AND ~~ONE~~ TRACK MOUNTED EXCAVATOR

Depth of Excavation: 28'-30' auger for PILE, 12' AMSL FOR FIREWATER TRENCH

Observed Native Soils (Stratigraphy): NATIVE SOIL VISIBLE IN PILE AUGERED BACKDIRT - UNCLEAR FOR TRENCHING

Disturbed/Redeposited Soils: TRENCHING APPEARS TO BE OCCURRING IN REDEPOSITED SOILS IN ALL LOCATIONS

Features: ϕ

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

EXCAVATION ALSO OCCURS IN POWER BLOCK 1 — very shallow > 2' below surface grade in previously disturbed soils.

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling): ϕ

OTHER WORK ACTIVITIES INCLUDE BACKFILLING TRENCH ALONG WEST ACCESS - MOVING PREVIOUSLY DISTURBED SOIL

AS WELL AS BACKFILLING THE DUCT BANK ~~AREA~~ (PORTIONS OF UNIT 1) IN PWR BLK 1

Appendix C: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 9/16/11 Monitor Name: Kathleen Kubal

Weather Conditions: sunny ⅓ very hot
Hours on Site Not Worked and Reason:
Work Location (Project Component): Duct bank
Work Type (Machine): excavators, pile drivers
Depth of Excavation: ~4'
Observed Native Soils (Stratigraphy): None
Disturbed/Redeposited Soils: all visible soils, native depths not reached
Features:
None

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

N/A

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

N/A

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):

N/A

Appendix C: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 09/19/11 Monitor Name: B. ELLIOTT (URS)
0715 - 1045

Weather Conditions: SUNNY, LIGHT WIND
Hours on Site Not Worked and Reason: —
Work Location (Project Component): FIREWATER LINE X/W PROTECT AREA / PILE IN WEST HALF OF SIT
Work Type (Machine): 1 TRACK MOUNTED EXCAVATOR / 2 PILE DRIVERS
Depth of Excavation: 5' BELOW SURFACE GRADE (FIRE WATER)
Observed Native Soils (Stratigraphy): NONE
Disturbed/Redeposited Soils: SOILS IN FIRE WATER TRENCH INCLUDE MATERIAL RELATED TO CONSTRUCTION OF MLGS COMPONENTS
Features: Ø

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

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):
Ø

NO WORK WILL OCCUR IN NATIVE SOIL TODAY (OTHER THAN PILE DRIVING)
NO FURTHER ARCHAEO MONITORING PERFORMED TODAY.

Appendix C: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 9/20/11 Monitor Name: B. ELLIOTT (URS) 0715 - 1030

Weather Conditions: SUNL, LIGHT WIND

Hours on Site Not Worked and Reason: ———

Work Location (Project Component): PILE: WEST-CENTRAL SITE, FIREWATER (EARLY AM), DUCT BANK EXCAVATION

Work Type (Machine): 2 PILEDRIVERS / ONE TRACK MOUNTED EXCAVATOR (FIREWATER), 2 TRACK MOUNTED EXCAVATOR (DUCT BANK)

Depth of Excavation: PILE/AUGER: 22-30', FIREWATER: 12' amsl, DUCT BANK: 10' amsl

Observed Native Soils (Stratigraphy): NONE OBSERVED

Disturbed/Redeposited Soils: EXCAVATION OCCURRING IN DISTURBED SOIL ONLY — PILE AUGER IS LIKELY IN NATIVE SOIL

Features: ϕ

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

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling): ϕ

* TRENCHING IN DISTURBED SOIL ONLY

* SPOT CHECK OF PILE AUGER PERFORMED

Appendix C: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 9/23/11 Monitor Name: Kathleen Kubal

Weather Conditions: Sunny & warm HOT!
Hours on Site Not Worked and Reason:
Work Location (Project Component): Duet bank
Work Type (Machine): 1 Excavator, pile driver
Depth of Excavation: ~4
Observed Native Soils (Stratigraphy): None
Disturbed/Redeposited Soils: all excavated soil
Features:
None

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

None

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

N/A

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):

N/A

Appendix C: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 9/26/11 Monitor Name: Kathleen Kubal

Weather Conditions: Sunny & warm
Hours on Site Not Worked and Reason:
Work Location (Project Component): Duct Bank
Work Type (Machine): Excavator ~3' bucket
Depth of Excavation: ~4'
Observed Native Soils (Stratigraphy): Some on the North portion of bank C - dark brown patches
Disturbed/Redeposited Soils: Most ground disturbance was redeposit
Features:
None

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

None

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

N/A

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):

N/A

Appendix C: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 09/27/11 Monitor Name: BEN ELLIOTT (URS)
0705 1715

Weather Conditions: SUNNY / LIGHT WIND
Hours on Site Not Worked and Reason: —
Work Location (Project Component): NORTHERN DUCT BANK AREA, PILE IN E. P.S. PROJECT AREA
Work Type (Machine): CAT 349 TRKMNTD EXCAVATOR, 2 PILE DRIVERS } BACKFILL & PUMP CONCRETE ELSEWHERE IN DUCT BANK
Depth of Excavation: EL. 10.8' IN DUCT BANK; PILE AUGER = ≤ 30' BGS
Observed Native Soils (Stratigraphy): NONE
Disturbed/Redeposited Soils: REDEPOSITED SOILS ONLY
Features:
Ø

VERY LIGHT EXCAVATION BY 2ND TRK MNTD EXCVT IN DUCT BANK SOUTH OF MAIN EXCAVATION — NOT IN NATIVE

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

1330 → 349 MOVE SOUTH AND BEGIN EXCAVATION IN PREV. DISTURBED AREA

Incorrect observation

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):
Ø

Appendix C: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 9/28/11 Monitor Name: Kathleen Kubaal

Weather Conditions: Sunny and hot
Hours on Site Not Worked and Reason:
Work Location (Project Component): Duct Bank near NW corner - Pile Driving area NE side
Work Type (Machine): excavators - various bucket sizes - pile drivers
Depth of Excavation: to level 5 (approx) - Maybe 6 to 8 feet BGS - hard to tell
Observed Native Soils (Stratigraphy): Yes, native soil and stratigraphy were visible
Disturbed/Redeposited Soils: yes, on the upper levels. The former gravel fill layer was visible - orangish w/ gravel inclusions
Features:

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

NO cultural Resources present

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

N/A

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):

N/A

Appendix D: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 9-29-11 Monitor Name: Jay Baker

Weather Conditions: Sunny, warm w/ slight breeze
Hours on Site Not Worked and Reason: Ø
Work Location (Project Component): North-east corner of project
Work Type (Machine): Excavator
Depth of Excavation: approx. 10 Ft.
Observed Native Soils (Stratigraphy): None
Disturbed/Redeposited Soils: dark Sandy Soil at approx. 8-10 Ft depth
Features:
None

Artifacts (Isolated? Diagnostic? Greater than 50 years? Exceptional? Include description, provenience, stratigraphic context.):
None

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):
None.

Appendix D: This page can be duplicated and copies completed daily by each CRM.

Cultural Resources Monitoring Log, Marsh Landing Generating Station

Date: 9-30-11 Monitor Name: Jay Baker

Weather Conditions: Sunny, moderate winds
Hours on Site Not Worked and Reason: Ø
Work Location (Project Component): trenching, North east corner of site
Work Type (Machine): excavator, CAT349E
Depth of Excavation: approx. 10 ft.
Observed Native Soils (Stratigraphy): None
Disturbed/Redeposited Soils: dark sandy soil at bottom of trench
Features:
None

Artifacts (Isolated? Diagnostic? Greater than 50 years? Exceptional? Include description, provenience, stratigraphic context.):
None

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

Actions Taken (Halt/Resume Construction; Identification; Notifications; Recommendations; Photography; Collecting; Sampling):
None

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 2, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 7

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

ELEC-1-14.0 (CBO-0263) Approved	ELEC-1-4.1 (CBO-0265) Approved	MECH-1-50.0 (CBO-0266) Approved
ELEC-1-13.0 (CBO-0260) Approved	ELEC-1-11.1 (CBO-0261) Approved	
ELEC-1-4.0 (CBO-0264) Approved	ELEC-1-1.0 (CBO-0262) Approved	

Deborah Sandercock, S.E.
Supervising Structural Engineer

JRitchie FOR
Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0262		Title ELEC-1-1.0		File No 015F		
Document Type	**Dwg No _Rev**	**Rev Date**	**Description**	**CCC Eng**	**Apv Date**	**Upload / Rtn Date**	**Comments**
Drawing	2009-019-EG-110 rev0		Electrical Grounding Layout Ammonia Storage Area	MT	9/2/2011	9/2/2011	Approved

CBO-0261		Title ELEC-1-11.1		File No 015F		
Document Type	**Dwg No Rev**	**Rev Date**	**Description**	**CCC Eng**	**Apv Date**	**Upload / Rtn Date**	**Comments**
Drawing	2009-019-EG-020 rev0		Electrical Grounding Layou Water Treatment Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-120 rev0		Electrical Grounding Layout Administration / Control Building, Stack 1 and 2 Areas	MT	9/2/2011	9/2/2011	Approved

CBO-0260		Title ELEC-1-13.0		File No 015F		
Document Type	**Dwg No _Rev**	**Rev Date**	**Description**	**CCC Eng**	**Apv Date**	**Upload / Rtn Date**	**Comments**
Drawing	2009-019-EG-030 rev0		Electrical Grounding Layout Layout Fuel Gas Compressors	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-130 rev0		Electrical Grounding Layout Fuel Gas, Stack 2 and 3 Areas	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-140 rev0		Electrical Grounding Layout Stack 4 and Yard Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-010 rev0		Electrical Grounding Layout Raw Water Storage Area	MT	9/2/2011	9/2/2011	Approved

CBO-0263		Title ELEC-1-14.0		File No 015F		

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-320 rev0		Electrical Grounding Layout GSU 1 and 2 and Switchyard Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-330 rev0		Electrical Grounding Layout Auxiliary Transformers, GSU 3 and Switchyard Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-340 rev0		Electrical Grounding Layout GSU 4 and Switchyard Area	MT	9/2/2011	9/2/2011	Approved

CBO-0264 **Title ELEC-1-4.0** **File No 015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-902 rev0		Electrical Grounding Details CT Exhaust / SCR Cooling Air Fan	MT	9/2/2011	9/2/2011	Approved

CBO-0265 **Title ELEC-1-4.1** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-240 rev0		Electrical Grouding Layout SCR and CTG 4 Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-220 rev0		Electrical Grouding Layout SCR and CTG 1 and 2 Areas	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-230 rev0		Electrical Grouding Layout SCR and CTG 2 and 3 Areas	MT	9/2/2011	9/2/2011	Approved

CBO-0266 **Title MECH-1-50.0** **File No 015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-YP-0110 rev0		Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval

Drawing	2009-019-YP-0510 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0120 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0240 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0310 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0320 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0330 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0410 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0420 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0430 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0440 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0520 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0220 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0340 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0040 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 2, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 7

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

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ELEC-1-13.0 (CBO-0260) Approved	ELEC-1-11.1 (CBO-0261) Approved	
ELEC-1-4.0 (CBO-0264) Approved	ELEC-1-1.0 (CBO-0262) Approved	

Deborah Sandercock, S.E.
Supervising Structural Engineer

JRitchie FOR
Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0262		Title ELEC-1-1.0		File No 015F		
Document Type	**Dwg No _Rev**	**Rev Date**	**Description**	**CCC Eng**	**Apv Date**	**Upload / Rtn Date**	**Comments**
Drawing	2009-019-EG-110 rev0		Electrical Grounding Layout Ammonia Storage Area	MT	9/2/2011	9/2/2011	Approved

CBO-0261		Title ELEC-1-11.1		File No 015F		
Document Type	**Dwg No Rev**	**Rev Date**	**Description**	**CCC Eng**	**Apv Date**	**Upload / Rtn Date**	**Comments**
Drawing	2009-019-EG-020 rev0		Electrical Grounding Layou Water Treatment Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-120 rev0		Electrical Grounding Layout Administration / Control Building, Stack 1 and 2 Areas	MT	9/2/2011	9/2/2011	Approved

CBO-0260		Title ELEC-1-13.0		File No 015F		
Document Type	**Dwg No _Rev**	**Rev Date**	**Description**	**CCC Eng**	**Apv Date**	**Upload / Rtn Date**	**Comments**
Drawing	2009-019-EG-030 rev0		Electrical Grounding Layout Layout Fuel Gas Compressors	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-130 rev0		Electrical Grounding Layout Fuel Gas, Stack 2 and 3 Areas	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-140 rev0		Electrical Grounding Layout Stack 4 and Yard Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-010 rev0		Electrical Grounding Layout Raw Water Storage Area	MT	9/2/2011	9/2/2011	Approved

CBO-0263		Title ELEC-1-14.0		File No 015F		

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-320 rev0		Electrical Grounding Layout GSU 1 and 2 and Switchyard Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-330 rev0		Electrical Grounding Layout Auxiliary Transformers, GSU 3 and Switchyard Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-340 rev0		Electrical Grounding Layout GSU 4 and Switchyard Area	MT	9/2/2011	9/2/2011	Approved

CBO-0264 **Title ELEC-1-4.0** **File No 015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-902 rev0		Electrical Grounding Details CT Exhaust / SCR Cooling Air Fan	MT	9/2/2011	9/2/2011	Approved

CBO-0265 **Title ELEC-1-4.1** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-240 rev0		Electrical Grouding Layout SCR and CTG 4 Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-220 rev0		Electrical Grouding Layout SCR and CTG 1 and 2 Areas	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-230 rev0		Electrical Grouding Layout SCR and CTG 2 and 3 Areas	MT	9/2/2011	9/2/2011	Approved

CBO-0266 **Title MECH-1-50.0** **File No 015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-YP-0110 rev0		Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval

Drawing	2009-019-YP-0510 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0120 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0240 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0310 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0320 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0330 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0410 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0420 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0430 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0440 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0520 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0220 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0340 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0040 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 2, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 7

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

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ELEC-1-14.0 (CBO-0263) Approved	ELEC-1-4.1 (CBO-0265) Approved	MECH-1-50.0 (CBO-0266) Approved
ELEC-1-13.0 (CBO-0260) Approved	ELEC-1-11.1 (CBO-0261) Approved	
ELEC-1-4.0 (CBO-0264) Approved	ELEC-1-1.0 (CBO-0262) Approved	

Deborah Sandercock, S.E.
Supervising Structural Engineer

JRitchie FOR
Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0262		Title ELEC-1-1.0		File No 015F		
Document Type	**Dwg No _Rev**	**Rev Date**	**Description**	**CCC Eng**	**Apv Date**	**Upload / Rtn Date**	**Comments**
Drawing	2009-019-EG-110 rev0		Electrical Grounding Layout Ammonia Storage Area	MT	9/2/2011	9/2/2011	Approved

CBO-0261		Title ELEC-1-11.1		File No 015F		
Document Type	**Dwg No Rev**	**Rev Date**	**Description**	**CCC Eng**	**Apv Date**	**Upload / Rtn Date**	**Comments**
Drawing	2009-019-EG-020 rev0		Electrical Grounding Layou Water Treatment Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-120 rev0		Electrical Grounding Layout Administration / Control Building, Stack 1 and 2 Areas	MT	9/2/2011	9/2/2011	Approved

CBO-0260		Title ELEC-1-13.0		File No 015F		
Document Type	**Dwg No _Rev**	**Rev Date**	**Description**	**CCC Eng**	**Apv Date**	**Upload / Rtn Date**	**Comments**
Drawing	2009-019-EG-030 rev0		Electrical Grounding Layout Layout Fuel Gas Compressors	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-130 rev0		Electrical Grounding Layout Fuel Gas, Stack 2 and 3 Areas	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-140 rev0		Electrical Grounding Layout Stack 4 and Yard Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-010 rev0		Electrical Grounding Layout Raw Water Storage Area	MT	9/2/2011	9/2/2011	Approved

CBO-0263		Title ELEC-1-14.0		File No 015F		

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-320 rev0		Electrical Grounding Layout GSU 1 and 2 and Switchyard Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-330 rev0		Electrical Grounding Layout Auxiliary Transformers, GSU 3 and Switchyard Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-340 rev0		Electrical Grounding Layout GSU 4 and Switchyard Area	MT	9/2/2011	9/2/2011	Approved

CBO-0264 **Title ELEC-1-4.0** **File No 015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-902 rev0		Electrical Grounding Details CT Exhaust / SCR Cooling Air Fan	MT	9/2/2011	9/2/2011	Approved

CBO-0265 **Title ELEC-1-4.1** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-240 rev0		Electrical Grouding Layout SCR and CTG 4 Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-220 rev0		Electrical Grouding Layout SCR and CTG 1 and 2 Areas	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-230 rev0		Electrical Grouding Layout SCR and CTG 2 and 3 Areas	MT	9/2/2011	9/2/2011	Approved

CBO-0266 **Title MECH-1-50.0** **File No 015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-YP-0110 rev0		Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval

Drawing	2009-019-YP-0510 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0120 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0240 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0310 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0320 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0330 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0410 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0420 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0430 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0440 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0520 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0220 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0340 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0040 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 8, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 6

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

ELEC-1-17.0 (CBO-0256) Approved	ELEC-1-17.0 (CBO-0281) Approved	ELEC-1-17.2 (CBO-0255) Approved
ELEC-1-17.3 (CBO-0282) Approved	ELEC-1-9.0 (CBO-0283) Approved	ELEC-1-9.1 (CBO-0284) Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

JRitchie for
Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0256 **Title ELEC-1-17.0** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-ED-330 rev1	08/12/11	Electrical Duct Bank Layout GSU 2 and 3 and Switchyard Area	MT	9/7/2011	9/8/2011	Approved
Drawing	2009-019-ED-340 rev1	08/12/11	Electrical Duct Bank Layout GSU 4 and Switchyard Area	MT	9/7/2011	9/8/2011	Approved
Drawing	2009-019-ED-900 rev1	08/12/11	Electrical Duct Bank Details	MT	9/7/2011	9/8/2011	Approved
Drawing	2009-019-ED-320 rev1	08/12/11	Electrical Duct Bank Layout GSU 1 and 2 and Switchyard Area	MT	9/7/2011	9/8/2011	Approved
Drawing	2009-019-ED-902 rev1	08/12/11	Electrical Duct Bank Details SFC/ See Package 01 and 02	MT	9/7/2011	9/8/2011	Approved
Drawing	2009-019-ED-903 rev1	08/12/11	Electrical Duct Bank Details SFC/ See Package 03 and 04	MT	9/7/2011	9/8/2011	Approved

CBO-0281 **Title ELEC-1-17.0** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-ED-010 rev1	08/30/11	Electrical Duct Bank Layout Yard Area	MT	9/7/2011	9/8/2011	Approved
Drawing	2009-019-ED-140 rev1	08/30/11	Electrical Duct Bank Layout Stack 4 and Yard Area	MT	9/7/2011	9/8/2011	Approved
Drawing	2009-019-ED-130 rev1	08/30/11	Electrical Duct Bank Layout Fuel Gas and Stacks 2 and 3 Areas	MT	9/7/2011	9/8/2011	Approved
Drawing	2009-019-ED-120 rev1	08/30/11	Electrical Duct Bank Layout Administration and Control Buildings, Stacks 1 and 2	MT	9/7/2011	9/8/2011	Approved
Drawing	2009-019-ED-110 rev1	08/30/11	Electrical Duct Bank Layout Ammonia Storage Area	MT	9/7/2011	9/8/2011	Approved

2.13 ELEC-1

Drawing	2009-019-ED-030 rev1	08/30/11	Electrical Duct Bank Layout Fuel Gas Compressor Area	MT	9/7/2011	9/8/2011	Approved
Drawing	2009-019-ED-020 rev1	08/30/11	Electrical Duct Bank Layout Water Treatment Area	MT	9/7/2011	9/8/2011	Approved

CBO-0255 **Title** **ELEC-1-17.2** **File No** **015F**

Document Type	*Dwg No Rev*	*Rev Date*	*Description*	*CCC Eng*	*Apv Date*	*Upload / Rtn Date*	*Comments*
Drawing	2009-019-ED-003 rev2	08/12/11	Electrical Duct Bank Layout Gas Metering Area	MT	9/7/2011	9/8/2011	Approved

CBO-0282 **Title** **ELEC-1-17.3** **File No** **015F**

Document Type	*Dwg No Rev*	*Rev Date*	*Description*	*CCC Eng*	*Apv Date*	*Upload / Rtn Date*	*Comments*
Drawing	2009-019-ED-230 rev1	08/30/11	Electrical Duct Bank Layout SCR/CTG 2 and 3 Area	MT	9/7/2011	9/8/2011	Approved
Drawing	2009-019-ED-220 rev1	08/30/11	Electrical Duct Bank Layout SCR/CTG 2 and 3 Area	MT	9/7/2011	9/8/2011	Approved
Drawing	2009-019-ED-240 rev1	08/30/11	Electrical Duct Bank Layout SCR/CTG 4 Area	MT	9/7/2011	9/8/2011	Approved

CBO-0283 **Title** **ELEC-1-9.0** **File No** **015F**

Document Type	*Dwg No Rev*	*Rev Date*	*Description*	*CCC Eng*	*Apv Date*	*Upload / Rtn Date*	*Comments*
Drawing	2009-019-EC-001 rev 1	08/30/11	Electrical Embedded Conduit Layout Site Key Plan	MT	9/7/2011	9/8/2011	Approved

CBO-0284 **Title** **ELEC-1-9.1** **File No** **015F**

Document Type	*Dwg No Rev*	*Rev Date*	*Description*	*CCC Eng*	*Apv Date*	*Upload / Rtn Date*	*Comments*

Drawing	2009-019-EC-020 rev0	Electrical Embedded Conduit Layout Water Treatment Area Conduit 0 El. 14' - 10"	MT	9/7/2011	9/8/2011	Approved

2.13 ELEC-1

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 20, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 2

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

STRUC-1-43.0 (CBO-0297) w/ Comments	ELEC-1-17.0 (CBO-0290) Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor FOR
Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0290 **Title ELEC-1-17.0** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-ED-340 rev2	08/30/11	Electrical Duct Bank Layout GSU 4 Switchyard Area	MT	9/19/2011	9/20/2011	Approved
Drawing	2009-019-ED-330 rev2	08/30/11	Electrical Duct Bank Layout GSU 2 and 3 and Switchyard Area	MT	9/19/2011	9/20/2011	Approved
Drawing	2009-019-ED-320 rev2	08/30/11	Electrical Duct Bank Layout GSU 1 and 2 and Switchyard Area	MT	9/19/2011	9/20/2011	Approved

CBO-0297 **Title STRUC-1-43.0** **File No 015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Calcs	910G-04 Rev A		CTG Step-Up and Aux Transformer Foundation	RS		9/20/2011	Returned with comments / *needs fire review*
Drawing	2009-019-SF-085A revA		CTG Step-Up Transformer Unit #3 and UAT Transformers Foundation Plan, Sections and Details	RS		9/20/2011	Returned with comments / *needs fire review*
Drawing	2009-019-SF-085 revA		CTG Step-Up Transformer Unit #3 and UAT Transformers Foundation Plan, Sections and Details	RS		9/20/2011	Returned with comments / *needs fire review*

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 20, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 2

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

STRUC-1-43.0 (CBO-0297) w/ Comments	ELEC-1-17.0 (CBO-0290) Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0290 **Title** **ELEC-1-17.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-ED-340 rev2	08/30/11	Electrical Duct Bank Layout GSU 4 Switchyard Area	MT	9/19/2011	9/20/2011	Approved
Drawing	2009-019-ED-330 rev2	08/30/11	Electrical Duct Bank Layout GSU 2 and 3 and Switchyard Area	MT	9/19/2011	9/20/2011	Approved
Drawing	2009-019-ED-320 rev2	08/30/11	Electrical Duct Bank Layout GSU 1 and 2 and Switchyard Area	MT	9/19/2011	9/20/2011	Approved

CBO-0297 **Title** **STRUC-1-43.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Calcs	910G-04 Rev A		CTG Step-Up and Aux Transformer Foundation	RS		9/20/2011	Returned with comments / *needs fire review*
Drawing	2009-019-SF-085A revA		CTG Step-Up Transformer Unit #3 and UAT Transformers Foundation Plan, Sections and Details	RS		9/20/2011	Returned with comments / *needs fire review*
Drawing	2009-019-SF-085 revA		CTG Step-Up Transformer Unit #3 and UAT Transformers Foundation Plan, Sections and Details	RS		9/20/2011	Returned with comments / *needs fire review*

2.13 ELEC-1

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 21, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

ELEC-1-17.0 (CBO-0301)
Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Mattie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0301 **Title ELEC-1-17.0** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-ED-340 rev3	09/15/11	Electrical Duct Bank Layout GSU 4 and Switchyard Area	MT	9/21/2011	9/21/2011	Approved
Drawing	2009-019-ED-330 rev3	09/15/11	Electrical Duct Bank Layout GSU 2 and 3 and Switchyard Area	MT	9/21/2011	9/21/2011	Approved
Drawing	2009-019-ED-320 rev3	09/15/11	Electrical Duct Bank Layout GSU 1 and 2 and Switchyard Area	MT	9/21/2011	9/21/2011	Approved

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 21, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 2

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

ELEC-1-17.0 (CBO-0301) Approved	MECH-1-4.0 (CBO-0293) Reviewed for Reference Only

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor FOR
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0301 **Title** **ELEC-1-17.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-ED-340 rev3	09/15/11	Electrical Duct Bank Layout GSU 4 and Switchyard Area	MT	9/21/2011	9/21/2011	
Drawing	2009-019-ED-330 rev3	09/15/11	Electrical Duct Bank Layout GSU 2 and 3 and Switchyard Area	MT	9/21/2011	9/21/2011	
Drawing	2009-019-ED-320 rev3	09/15/11	Electrical Duct Bank Layout GSU 1 and 2 and Switchyard Area	MT	9/21/2011	9/21/2011	

CBO-0293 **Title** **MECH-1-4.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Specs	Spec. 531 Rev. 0 (IFC)		Underground Fire Protection - Issued for Reference	MT		9/21/2011	Reviewed for Reference Only / *needs fire review*

2.13 ELEC-1

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 27, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

ELEC-1-9.0 (CBO-0311)
Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor FOR
Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0311 **Title ELEC-1-9.0** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EC-960D rev1	09/22/11	Electrical Embedded Conduit Layout Typical CTG Conduit Elevation 11' - 1", 10' - 4 1/2" and 9' - 9"	MT	9/27/2011	9/27/2011	Approved
Drawing	2009-019-EC-960C rev1	09/22/11	Electrical Embedded Conduit Layout Typical CTG Conduit Elevation 13' - 7"	MT	9/27/2011	9/27/2011	Approved
Drawing	2009-019-EC-960B rev1	09/22/11	Electrical Embedded Conduit Layout Typical CTG Conduit Elevation 14' - 2"	MT	9/27/2011	9/27/2011	Approved
Drawing	2009-019-EC-960A rev1	09/22/11	Electrical Embedded Conduit Layout Typical CTG Conduit Elevation 14' - 9"	MT	9/27/2011	9/27/2011	Approved

2.13 ELEC-1

2.15 GEN-3

Copy of CBO Payment Made for the Month of September 2011

CONTRA COSTA COUNTY-CBO
Vendor –

Name CONTRA COSTA COUNTY-CBO

St	Assignment	DocumentNo	Reference	Type	Doc. Date	PK	Amount in DC	Curr.	Check number	User Name	Text	Clrng doc.
		2000000004		ZV	02/01/2011	25	159,260.00	USD	1061102	00021029		2000000004
	001	5100000003	001	RN	01/11/2011	31	159,260.00-	USD	1061102	00210851		2000000004
		2000000013		ZV	02/23/2011	25	79,630.00	USD	1061624	BATCH_FI		2000000013
	002	5100000007	002	RN	02/01/2011	31	79,630.00-	USD	1061624	00210851		2000000013
		2000000016		ZV	03/10/2011	25	79,630.00	USD	1062038	BATCH_FI		2000000016
	003	5100000011	003	RN	03/01/2011	31	79,630.00-	USD	1062038	00200308		2000000016
		2000000031		ZV	04/15/2011	25	79,630.00	USD	1063082	BATCH_FI		2000000031
	004	5100000019	004	RN	04/01/2011	31	79,630.00-	USD	1063082	00210851		2000000031
		2000000039		ZV	05/23/2011	25	79,630.00	USD	1064000	BATCH_FI		2000000039
	005	5100000024	005	RN	05/03/2011	31	79,630.00-	USD	1064000	00208791		2000000039
		2000000048		ZV	06/23/2011	25	79,630.00	USD	1064777	BATCH_FI		2000000048
	006	5100000032	006	RN	06/01/2011	31	79,630.00-	USD	1064777	00927946		2000000048
		2000000067		ZV	07/28/2011	25	79,630.00	USD	1065750	BATCH_FI		2000000067
	007	5100000044	007	RN	07/01/2011	31	79,630.00-	USD	1065750	00927946		2000000067
		2000000076		ZV	08/18/2011	25	79,630.00	USD	1066218	BATCH_FI		2000000076
	008	5100000049	008	RN	08/01/2011	31	79,630.00-	USD	1066218	00928052		2000000076
		2000000084		ZV	09/09/2011	25	79,630.00	USD	1066698	BATCH_FI		2000000084
	009	5100000057	009	RN	09/01/2011	31	79,630.00-	USD	1066698	00927946		2000000084
*							0.00	USD				
** Account 216950							0.00	USD				

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 26, 2011
FROM : Roxanna Hymer
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

GEN-6-1.0 (CBO-0306)
Approved

D. Sandercock / R.H.

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0306 **Title GEN-6-1.0** **File No 015F**

Document Type	*Dwg No _Rev*	*Rev Date*	*Description*	*CCC Eng*	*Apv Date*	*Upload / Rtn Date*	*Comments*
Docs	Jeff Brooks		Jeff Brooks Resume	DS	09/26/2011	09/26/2011	Approved
Docs	Jay Locatelli Cert		Jay Locatelli Cert	DS	09/26/2011	09/26/2011	Approved
Docs	Ryan Doyel - Resume Informat		Ryan Doyel - Resume	DS	09/26/2011	09/26/2011	Approved
Docs	Micah Ek Cert		Micah Ek Cert	DS	09/26/2011	09/26/2011	Approved
Docs	Laura Johnson Cert		Laura Johnson Cert	DS	09/26/2011	09/26/2011	Approved
Docs	Jay L AWS CWI Cert		Jay Locatelli AWS CWI Cert	DS	09/26/2011	09/26/2011	Approved
Docs	Jason Burris Cert		Jason Burris Cert	DS	09/26/2011	09/26/2011	Approved
Docs	Denise_Corkill_Ins Resume		Denise Corkill - Resume	DS	09/26/2011	09/26/2011	Approved
Docs	Denise Corkill Certs		Denise Corkill - Certs	DS	09/26/2011	09/26/2011	Approved
Docs	33.G.103-S1		Qualification & Certification of NDT Personnel	DS	09/26/2011	09/26/2011	Approved
Docs	2011 Kiewit NC Rates 9-8-11		2011 Kiewit NC Rates 9-8-11	DS	09/26/2011	09/26/2011	Approved

Department of
Conservation &
Development

Building Inspection Division

County Administration Building
651 Pine Street, 3rd Floor, North Wing
Martinez, CA 94553-1295
(925) 646-4108
(925) 646-1219 FAX

Contra
Costa
County

Catherine O. Kutsuris
Director

Jason Crapo
Deputy Director

February 24, 2011

Robin O'Callaghan, P.E.
Senior Mechanical Engineer
Kiewit
9401 Renner Boulevard
Lenexa, KS 66219

Re: Contra Costa County Building Inspection approved the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #BIIN11-001018

Dear Ms. O'Callaghan:

The following one package(s) has been reviewed and approved by the Building Inspection Division for this job. Please see the attached detailed list of documents approved in association with this package(s).

Package #	**Package #**	**Package #**
CBO-0006		

If you have any questions, please call me at (925) 335-1136.

Sincerely,

Deborah Sandercock, S.E.
Supervising Structural Engineer

DS:td
Attachment

Marsh Landing - CBO Transmittal Report

CBO-0006 **Title GEN-6-1.0** **File No 015F**

Title	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
QC	GEN-6 Spec Insp		Quality Control Company/Special Inspectors – 3rd Party	DS	02/23/2011	02/24/2011	

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 2, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 7

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

ELEC-1-14.0 (CBO-0263) Approved	ELEC-1-4.1 (CBO-0265) Approved	MECH-1-50.0 (CBO-0266) Approved
ELEC-1-13.0 (CBO-0260) Approved	ELEC-1-11.1 (CBO-0261) Approved	
ELEC-1-4.0 (CBO-0264) Approved	ELEC-1-1.0 (CBO-0262) Approved	

Deborah Sandercock, S.E.
Supervising Structural Engineer

JRitchie FOR
Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0262 **Title** **ELEC-1-1.0** **File No** **015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-110 rev0		Electrical Grounding Layout Ammonia Storage Area	MT	9/2/2011	9/2/2011	Approved

CBO-0261 **Title** **ELEC-1-11.1** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-020 rev0		Electrical Grounding Layou Water Treatment Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-120 rev0		Electrical Grounding Layout Administration / Control Building, Stack 1 and 2 Areas	MT	9/2/2011	9/2/2011	Approved

CBO-0260 **Title** **ELEC-1-13.0** **File No** **015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-030 rev0		Electrical Grounding Layout Layout Fuel Gas Compressors	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-130 rev0		Electrical Grounding Layout Fuel Gas, Stack 2 and 3 Areas	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-140 rev0		Electrical Grounding Layout Stack 4 and Yard Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-010 rev0		Electrical Grounding Layout Raw Water Storage Area	MT	9/2/2011	9/2/2011	Approved

CBO-0263 **Title** **ELEC-1-14.0** **File No** **015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-320 rev0		Electrical Grounding Layout GSU 1 and 2 and Switchyard Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-330 rev0		Electrical Grounding Layout Auxiliary Transformers, GSU 3 and Switchyard Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-340 rev0		Electrical Grounding Layout GSU 4 and Switchyard Area	MT	9/2/2011	9/2/2011	Approved

CBO-0264 **Title** **ELEC-1-4.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-902 rev0		Electrical Grounding Details CT Exhaust / SCR Cooling Air Fan	MT	9/2/2011	9/2/2011	Approved

CBO-0265 **Title** **ELEC-1-4.1** **File No** **015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-EG-240 rev0		Electrical Grouding Layout SCR and CTG 4 Area	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-220 rev0		Electrical Grouding Layout SCR and CTG 1 and 2 Areas	MT	9/2/2011	9/2/2011	Approved
Drawing	2009-019-EG-230 rev0		Electrical Grouding Layout SCR and CTG 2 and 3 Areas	MT	9/2/2011	9/2/2011	Approved

CBO-0266 **Title** **MECH-1-50.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-YP-0110 rev0		Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval

Drawing	2009-019-YP-0510 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0120 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0240 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0310 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0320 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0330 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0410 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0420 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0430 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0440 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0520 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0220 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0340 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval
Drawing	2009-019-YP-0040 rev0	Mechanical Underground Yard Piping	MT	9/2/2011	9/2/2011	Approved w/ Fire Approval

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 13, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

19.0
MECH-1-51.0 (CBO-0268)
Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor FOR
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

ELEC 1-17.0
ED-902 R1

Marsh Landing - CBO Transmittal Report

CBO-0268 **Title MECH-1-19.0** **File No 015F**

Document Type	*Dwg No Rev*	*Rev Date*	*Description*	*CCC Eng*	*Apv Date*	*Upload / Rtn Date*	*Comments*
Drawing	2009-019-LG-001 rev2	08/15/11	Mechanical Standard Piping Legend	MT	9/7/2011	9/13/2011	Approved w/ Fire Approval

2.21 MECH-1

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 14, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

MECH-1-51.0 (CBO-0267)
Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor FOR
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0267 **Title MECH-1-51.0** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-YP-0230 rev3	08/15/11	Mechanical Underground Yard Piping	MT	9/7/2011	9/14/2011	Approved w/ fire approval
Drawing	2009-019-YP-0190 rev3	08/15/11	Mechanical Underground Yard Piping	MT	9/7/2011	9/14/2011	Approved w/ fire approval
Drawing	2009-019-YP-0180 rev2	08/15/11	Mechanical Underground Yard Piping	MT	9/7/2011	9/14/2011	Approved w/ fire approval
Drawing	2009-019-YP-0150 rev2	08/15/11	Mechanical Underground Yard Piping	MT	9/7/2011	9/14/2011	Approved w/ fire approval
Drawing	2009-019-YP-0140 rev3	08/15/11	Mechanical Underground Yard Piping	MT	9/7/2011	9/14/2011	Approved w/ fire approval
Drawing	2009-019-YP-0130 rev3	08/15/11	Mechanical Underground Yard Piping	MT	9/7/2011	9/14/2011	Approved w/ fire approval
Drawing	2009-019-YP-0000 rev3	08/15/11	Mechanical Underground Yard Piping Key Plan	MT	9/7/2011	9/14/2011	Approved w/ fire approval

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 15, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

MECH-1-38.0 (CBO-0285)
Reviewed for Reference Only

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor FOR
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0285 **Title** **MECH-1-38.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-PS-950 revE	08/26/11	Piping and Instrumentation Diagram SDR - Sanitary Drains	MT		9/15/2011	Reviewed for Reference Only

2.21 MECH-1

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 15, 2011

FROM : Jacqueline Ritchie

RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

MECH-1-38.0 (CBO-0285)
Reviewed for Reference Only

Deborah Sandercock, S.E.
Supervising Structural Engineer

JRitchie FOR
Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0285 **Title MECH-1-38.0** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-PS-950 revE	08/26/11	Piping and Instrumentation Diagram SDR - Sanitary Drains	MT		9/15/2011	Reviewed for Reference Only

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 21, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 2

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

ELEC-1-17.0 (CBO-0301) Approved	MECH-1-4.0 (CBO-0293) Reviewed for Reference Only

Deborah Sandercock, S.E.
Supervising Structural Engineer

Mattie Taylor FOR
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0301 **Title** **ELEC-1-17.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-ED-340 rev3	09/15/11	Electrical Duct Bank Layout GSU 4 and Switchyard Area	MT	9/21/2011	9/21/2011	
Drawing	2009-019-ED-330 rev3	09/15/11	Electrical Duct Bank Layout GSU 2 and 3 and Switchyard Area	MT	9/21/2011	9/21/2011	
Drawing	2009-019-ED-320 rev3	09/15/11	Electrical Duct Bank Layout GSU 1 and 2 and Switchyard Area	MT	9/21/2011	9/21/2011	

CBO-0293 **Title** **MECH-1-4.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Specs	Spec. 531 Rev. 0 (IFC)		Underground Fire Protection - Issued for Reference	MT		9/21/2011	Reviewed for Reference Only / *needs fire review*

2.21 MECH-1

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 21, 2011

FROM : Jacqueline Ritchie

RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

MECH-1-4.0 (CBO-0293)
CBO – Reviewed for Reference Only
Fire Marshal – No Comments

Deborah Sandercock, S.E.
Supervising Structural Engineer

JRitchie FOR
Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0293 **Title MECH-1-4.0** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Specs	Spec. 531 Rev. 0 (IFC)		Underground Fire Protection - Issued for Reference	MT		9/21/2011	Reviewed for Reference Only / *no fire comments

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 29, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

MECH-1-53.0 (CBO-0303)
CBO – Reference Only
Fire – Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor FOR
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0303 **Title MECH-1-53.0** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Fire Protection Co	FPC-530 Rev. B		Fire Protection Code Review		9/28/2011	9/29/2011	Ref. Only for CBO - Has Fire Approval

Subsection 2.23 (PALEONTOLOGICAL 4)

As of 9-30-2011

Worker Environmental Awareness Program Matrix

Date	**Numbers**
9/30/2011	21
Total	**21**

Marsh Landing Generating Station

WORKER ENVIRONMENTAL AWARENESS PROGRAM
WORKER TRAINING ATTENDANCE RECORD

Trainer: Raja Ponniah
Date: 8/30/2011
Training: WEAP
(for office use only)

I have attended the Marsh Landing Generating Station Project **Worker Environmental Awareness Program Worker Training** and understand and agree to comply with all environmental requirements presented. I understand that I am accountable for my actions and that failure to comply with the requirements may be grounds for immediate removal from the project and/or legal action.

	SIGNATURE	PRINT NAME	COMPANY/AFFILIATION	Date
1.				
2.	Sean Crane	SEAN CRANE	CCS	8/30/11
3.	Ryan J. Blev	Ryan Blevens	CCS	8/30/11
4.		Axel Anderslon	CCS	8/30/11
5.	Jon Montoya	Jon Montoya	CCS	8/30/11
6.	Adrian Sanchez	Adrian Sanchez	CCS	8/30/11
7.		Nathaniel Pritzl	CCS	9/1/11
8.		Larry Singleton	CCS	9/1/11
9.		Maurice Ward Jr	FCI	9/6/11
10.	Bob Ford	Bob Ford	PKS	9-6-11
11.	Kevin Bertoseck	Kevin W Bertoseck	PKS	9611
12.	Greg Gilman	Greg Gilman	PKS	9611
13.	Craig Azevedo	Craig Azevedo	PKS	9-6-11
14.		Kathleen Kubat	URS	9/6/11
15.		JAMES GREGG	KIEWIT	9/7/11
16.		Michael Nicholas	Foundation	9/8/11
17.		STACY BALL	URS	9-8-11
18.		JOLIENA AVALOS	PKS	9/08/11
19.				
20.				

Marsh Landing Generating Station

WORKER ENVIRONMENTAL AWARENESS PROGRAM
WORKER TRAINING ATTENDANCE RECORD

Trainer: Raja Ponnada/Eric Campbell
Date: Sept 2011
Training: WEAP
(for office use only)

I have attended the Marsh Landing Generating Station Project Worker Environmental Awareness Program Worker Training and understand and agree to comply with all environmental requirements presented. I understand that I am accountable for my actions and that failure to comply with the requirements may be grounds for immediate removal from the project and/or legal action.

	SIGNATURE	PRINT NAME	COMPANY/AFFILIATION	Done @ Break
1.		Justin Scott	Fremont Env.	
2.		LAURA TINGELSTAD	KIEWIT	
3.		MICHAEL MATHISEN	KIEWIT	
4.		STAN HARRIS	KIEWIT	PF
5.		DAVE HERWAT	KIEWIT	PF
6.		RAYMOND RUBY	FOUNDATION	RAP
7.		Christina RAMOS	KIEWIT	
8.		ERICH BUDDE	KIEWIT	
9.		Dee Mains	Kiewit	
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

Paleontological Resources Report Subsection 2.24
Marsh Landing Generating Station (08-AFC-3C)

September 2011

October 6, 2011

Christine Stora
Compliance Project Manager
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814-5512

RE: Marsh Landing Generating Station (08-AFC-3C) Monthly Monitoring Summary Report, Paleontological Resources

Dear Ms. Stora:

This letter report summarizes the paleontological resources monitoring activities which took place at the Marsh Landing Generating Station (MLGS) construction site in September 2011.

Project Description

The proposed MLGS site is located in unincorporated Contra Costa County, California, approximately one-tenth of a mile from the current City of Antioch limits and just west of State Route (SR) 160. Surrounding land uses include the existing Contra Costa Power Plant (CCPP) to the north, east and south, the Pacific Gas and Electric (PG&E) electrical switchyard to the south, the PG&E Gateway Generating Station to the east, a large vacant lot that was previously used for industrial (paper making) purposes to the west, and the San Joaquin River to the north.

The MLGS site will occupy approximately 27 acres on the western portion of the CCPP site formerly occupied by five #6 fuel oil tanks and an area to the east of the former tank farm. The proposed MLGS site, construction laydown areas, and project linear routes are mostly contained within the existing CCPP property and are highly disturbed or developed due to ongoing CCPP operations, recently completed demolition of five fuel oil tanks on the site, and construction of the Gateway Generating Station. The project includes a new wastewater pipeline to convey process and sanitary wastewater to the City of Antioch's sewer main on Wilbur Avenue. The majority of the MLGS site is composed of paved, graveled, or bare ground surfaces with very sparse ruderal and ornamental vegetation.

Paleontological Resources Monitoring

In accordance with Condition of Certification PAL-5 to ensure that there are no impacts to undiscovered resources, the Paleontological Resources Specialist (PRS) or Paleontological Resources Monitors (PRMs) will monitor all construction-related grading, excavation, trenching, and augering in areas where potential fossil-bearing materials have been identified.

Full- time paleontological monitoring requires at least one monitor per excavation area where earthmoving equipment is actively removing native soils. If an excavation area is too large for one monitor to effectively observe the soil removal, one or more additional monitors are retained to observe the area.

In the event that the PRS determines that the current level of monitoring is not appropriate in certain locations, the CEC's Compliance Project Manager (CPM) shall be notified by letter or e-mail detailing

the justification for the change in the level of monitoring. This request will be reviewed and must be approved by the CPM prior to any change in monitoring level.

Paleontological resources monitoring activities are the responsibility of the PRS. Any interference with monitoring activities, removal of a monitor from duties assigned by the PRS, or direction to a monitor to relocate monitoring activities by anyone other than the PRS shall be considered non-compliance with the COCs.

Monitoring Activities

Paleontological resources monitors monitored all trenching and excavation of previously undisturbed sediments at Marsh Landing. The monitoring of the augering for the pile driving started as full-time monitoring, but had been reduced to two days/week as of August 22 by agreement of the CPM. The full-time monitoring of augering had resumed on 29 August because of discovery of significant vertebrate fossils in the spoils. Subsequent monitoring of the augering demonstrated that the stratum producing the fossils was limited to the northern part of the area where the augering was taking place. Thus, a request was made on 20 September to process samples from only certain pre-selected augering holes. The CPM agreed to this plan on September 22. Monitoring of the augering reverted to two days/week, and samples were taken only where the darker producing zone was encountered. Processing of sediment samples continued as possible during breaks in the monitoring.

Paleontological monitoring of the trenching and excavation included excavation within the power block on September 1, 9, and 26, trenching of the duct bank and power block on September 6, 7, 8, 12, 13, 14, and 27, excavation for power block and building pad on September 15, 16, and19, excavation of fire line, electrical duct bank, and ponding basin on September 20, and trenching in the northwestern corner of the project on September 28 and 29.

Activities and observations are summarized in Table 1 below, and Daily Monitoring Logs are attached to this letter report.

Table 1. Summary of Paleontological Resources Monitoring Activities, September 2011

Date	Monitors	Activities/Observations	Discoveries
09.01.2011	Annette Cornelius	Pile Driving	None
09.01.2011	Richard Serrano	Power block excavation and pile driving	None
09.02.2011	Annette Cornelius	Pile driving	Teeth
09.06.2011	Annette Cornelius	Sample processing	None
09.06. 2011	Richard Serrano	Trenching of duct bank and power block	None
09.07.2011	Annette Cornelius	Sample processing	Teeth, limb bones, claws, and ash/charcoal
09.07.2011	Richard Serrano	Trenching of duct bank and power block	None
09.08.2011	Annette Cornelius	Trenching of duct bank and power block	None
09.09.2011	Annette Cornelius	Pile driving	Bone fragment

09.09.2011	Richard Serrano	Excavations in power block and pile driving	None
09.12.2011	Richard Serrano	Excavation for duct bank and power block	None
09.13.2011	Richard Serrano	Excavation for duct bank and power blocks 1 and 2	None
09.14.2011	Richard Serrano	Excavation for duct bank and power block 1	None
09.15.2011	Annette Cornelius	Pile Driving	None
09.15.2011	Richard Serrano	Excavation for power block building pad and collected samples	None
09.16.2011	Richard Serrano	Excavation of power block 1, building foundation pad, and pile driving	None
09.17.2011	Annette Cornelius	Pile driving/collected samples	None
09.19.2011	Annette Cornelius	Pile driving/collected samples	None
09.19.2011	Richard Serrano	Trenching of northwest corner of building foundation	None
09.20.2011	Annette Cornelius	Pile driving/collected samples	None
09.20.2011	Richard Serrano	Excavations of fire line and electrical duct bank/ Pile driving/ponding basin	Rodent elements in ponding basin
09.22.2011	Annette Cornelius	Pile driving/collected samples	None
09.26.2011	Annette Cornelius	Pile driving/collected samples	None
09.26.2011	Richard Serrano	Excavations in power block 1/collected samples	None
09.27.2011	Annette Cornelius	Trenching of duct bank	None
09.28.2011	Annette Cornelius	Trenching in NW corner/collected samples	None
09.29.2011	Annette Cornelius	Trenching/processed samples	Tooth from processed sample

Conditions/LORS Compliance

No instances of non-compliance with the Conditions of Certification or applicable LORS were recorded.

Summary and Conclusions

Paleontological resources monitoring took place between September 1and September 30, 2011. One monitor was onsite per day on September 2, 8, 12, 17, 22, 27, 28, and 29. Two monitors were onsite on September 1, 6, 7, 7, 9, 15, 19, 20 and 26. With the exception noted above, all ground disturbing activities in previously undisturbed sediments throughout the MLGS project area were monitored. Possible paleontological resources were discovered on four days. Monitoring is ongoing, and will continue full-time during trenching. Monitoring of pile driving will be two days per week, with a focus on the northern part of the area being drilled. Processing of sediment samples will continue as possible.

Sincerely,

Joe Stewart
Paleontological Resources Specialist, Marsh Landing Generating Station

Attachments: Monitoring Logs

cc: David Frandsen, GenOn
Nick Hontuchan, GenOn
Anne Connell, URS

Attachment A

Daily Paleontological Resources Monitoring Logs
September 2011
Marsh Landing Generating Station

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 1 Sept 2011

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 8.5 Total Mi: 160

Project areas monitored:

pile driving

Time in: 7:00

Time out: 4:00

Fossils: none observed

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

Lithology: ~~Grain size:~~ (F / M / C) Color: tan Texture: _____ Sorting: well

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate / no

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / none

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

showed Richard around the project

Excavation conditions: (status / equipment / cuts / access) processed = SF018-010 no fossils

Rig A = 18 piles completed ; Rig B = 12 piles completed

Other Observations & Comments:

all sampling collected during day from bottom of augering (= 33ft be

with the exception of SF017-11, 008, 012 ; SF018-08

Note: SF 017-025 collected from both 25ft and 33ft combined together

Field Number: _____ Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates: UTM: _____ E/ _____ N// Lat. N _____ Long. W _____ Elev. ____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing Generation Station

Project Number: Plan 28067850.13000

Project Location: Marsh Landing

County: Contra Costa

Date: Sept. 1, 2011

Page: 1 of 1

Monitor: Richard Serrano

Total Hrs: 8 Total Mi: 257

Project areas monitored: Power Block Excavation, Pile driving

Time in: 6:37 AM

Time out: 4:00 PM

Fossils: No fossils were discovered today.

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

No noted in today's excavations.

Lithology: Grain size: (F / M / C) Color: Tan Texture: _____ Sorting: _____

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate /

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / N/A

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

No Safety Concerns.
Hazy, Cool w/ light breeze from North

Excavation conditions: (status / equipment / cuts / access)

Other Observations & Comments: Excavations monitored reached native ground. Others were in fill material and not monitored. These were for elect. duct banks & Excavations to place in the Southern portion of the Power block.

Field Number: _____ Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates: UTM: _____ E/ _____ N/ Lat. N _____ Long. W _____ Elev. _____

Number of specimens / paperbags / boxes / samples / bags of matrix:

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 2 Sept

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 5.5 Total Mi: 160

Project areas monitored: pile driving

Time in: 7:00

Time out: 1:30

Fossils: → N 38° 01' 02.0" / W 121° 45' 57.0"

dark tooth SF 017-004 @ 25 ft below ground surface (dark layer)

white tooth SF 005-016 @ 15 ft bgs N 38° 01' 01.6" / W 121° 45' 55.1"

no fossil SF 005-013 @ 15 ft N 38° 01' 00.7" / W 121° 45' 57.0"

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

Lithology: ~~Grain size:~~ (F / M / C) Color: tan Texture: _____ Sorting: well

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate / none

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / none

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Excavation conditions / status / equipment / cuts / access: _____

Rig A = 7 completed piles Rig B = 7 completed piles

Other Observations & Comments:

SF 018-051 @ 33 ft SF 018-059 @ 33 ft

058 @ 15 ft 041 @ 33 ft

065 @ 25 ft 019 @ 25 ft

063 @ 33 ft 047 @ 30 ft

Field Number: 075 @ 25 ft Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates: UTM: _____ E/ _____ N// Lat. N _____ Long. W _____ Elev. _____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

2.24 PAL-5

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 6 September 2011

Page: 1 of 1

Monitor: Amelia Conklin

Total Hrs: 8 **Total Mi:** 160

Project areas monitored:

None

Time in: 7:00

Time out: 3:30

Fossils: None found in the field

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

Lithology: ***Grain size:*** (F / M / C) ***Color:*** _____ ***Texture:*** _____ ***Sorting:*** _____

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate /

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / _____

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Excavation conditions: (status / equipment / cuts / access) _____

Processed samples

Other Observations & Comments: _____

Field Number: _____ **Field ID:** _____ **Datum: NAD 27 CONUS** _____

Condition: (poor / fair / good / excellent / damaged / partial / whole) _____

Approx. age: _____

Soils: _____

Location: (pads / cuts /landmarks) _____

Fate of Locality: (accessible / buried / graded away) _____

Coordinates:UTM: _____ **E/** _____ **N// Lat. N** _____ **Long. W** _____ **Elev.** ____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

Project Name: Marsh Landing Generation Station

Project Number: PLAD 28067850.13000

Project Location: Marsh Landing

County: Contra Costa

Date: 6 September 2011

Page: 1 of 1

Monitor: Richard Sorrano

Total Hrs: 8 Total Mi: 25

Project areas monitored: Trenching for duct banks / Power Block

Time in: 6:50 AM

Time out: 3:30 PM

Fossils: No fossils were discovered today.

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

None noted in todays excavations.

Lithology: Grain size: (F-M/ C) Color: Tan Texture: _____ Sorting: _____

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate /

Mineralization: calcite / siliceous / paleosol / alluvium / lag deposits / N/A

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Clear with mild temps.

Excavation conditions: (status / equipment / cuts / access): Good / Equip. Cat. 315 excavator

Other Observations & Comments: Trenching in Marsh is not below B.H. Work

Later is approx 7 ft.

Field Number: _____ Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates: UTM: _____ E/ _____ N/ Lat. N _____ Long. W _____ Elev. _____

Number of specimens / paperbags / boxes / samples / hours of activity

2

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

2.24 PAL-5

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 7 September 2011

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 8 **Total Mi:** 160

Project areas monitored:

None

Time in: 7:00

Time out: 15:30

Fossils: See below

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

Lithology: ***Grain size:*** (F / M / C) ***Color:*** _____ ***Texture:*** _____ ***Sorting:*** _____

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate /

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / _____

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Excavation conditions: (status / equipment / cuts / access) _____

processed samples

Other Observations & Comments:

SF 018-045 - teeth

SF 018-046 - claw/nail & bone

SF 018-010 - Ø

SF 018-004 @ 25ft tooth/ankle/limb

SF 005-063 tooth chip

SF 017-039 ash/charcoal

SF 018-059 tooth/bone

SF 018-081 Ø

SF 005-064 - tooth chip

SF 018-004 @ 15ft claw

Field Number: _____ **Field ID:** _____ **Datum: NAD 27 CONUS** _____

Condition: (poor / fair / good / excellent / damaged / partial / whole) _____

Approx. age: _____

Soils: _____

Location: (pads / cuts /landmarks) _____

Fate of Locality: (accessible / buried / graded away) _____

Coordinates: UTM: _____ E/ _____ N// **Lat.** N _____ **Long.** W _____ **Elev.** _____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing Generation Station

Project Number: PLD 28067850.13000

Project Location: Marsh Landing

County: Contra Costa

Date: 7 September 2011

Page: 1 of 1

Monitor: Richard Scarmuo

Total Hrs: 8.5 Total Mi: 25

Project areas monitored: Electduct bank excavations/Power Block

Time in: 6:47 AM

Time out: 4:00 PM

Fossils: No new fossil discoveries were made today.

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

None visable in today's excavations.

Lithology: Grain size: (F+M/C) Color: Tan Texture: _____ Sorting: _____

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate /

Mineralization: calcitic / siliceous / paleosol / alluvium / lag deposits / N/A

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Mild & breezy

Excavation conditions: (status / equipment / cuts / access) Good

Other Observations & Comments: Continue to wet screen.

Check excavations (none) below -5 ft.

Field Number: _____ Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Soils: _____ Approx. age: _____

Location: (pads / cuts /landmarks) _____

Fate of Locality: (accessible / buried / graded away) _____

Coordinates: UTM: _____ E/ _____ M/ Lat. N _____ Long. W _____ Elev. _____

Number of specimens / acreage / boxes / samples (bags of matrix):

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

2.24 PAL-5

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 8 Sept 2011

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 8 **Total Mi:** 160

Project areas monitored: trenching/excavations dirt bank Pond/Block

Time in: 7:00

Time out: 3:38

Fossils: none observed

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

fill top 4-5 ft in trenching, turbidites

Dark layer SF007-65, 67, 76 - Slight dark SF007-79, 81, 69, 57 none SF007-68, 69

SF008-82, 83, 81 (thin lenses) " SF008-80 " SF008-72, 73

Lithology: ***Grain size:*** (F / M / C) ***Color:*** tans to dk brown ***Texture:*** _____ ***Sorting:*** well

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate / none

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / none

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Excavation conditions: (status / equipment / cuts / access) excavated top 1-2 ft to avoid cutting slopes on trenching next day.

Other Observations & Comments:

Field Number: _____ **Field ID:** _____ **Datum:** NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates: UTM: _____ E/ _____ N// Lat. N _____ Long. W _____ Elev. _____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 9 Sept 2011

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 3.5 **Total Mi:** 160

Project areas monitored:
pile driving

Time in: 12:30

Time out: 4:00

Fossils: bone bit
picked through (concentrate)

Stratigraphy: (turbidites) / bioturbation / channels / beds / laminations / massive / contacts / faults

Dark layer SF008-57,58 slight color change, SF007-54,55
no discernable color change SF007-57; SF008-53,54,65,66,67,68
other piles did not observe

Lithology: ***Grain size:*** (F / M / C) ***Color:*** tan ***Texture:*** _____ ***Sorting:*** well
Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate / none
Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / none

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Excavation conditions: (status / equipment / cuts / a[illegible]) excavations in top 1-2 ft of Duct Bank in Power Block 1

Other Observations & Comments:

Field Number: _____ **Field ID:** _____ **Datum: NAD 27 CONUS** _____

Condition: (poor / fair / good / excellent / damaged / partial / whole) _____

Approx. age: _____

Soils: _____

Location: (pads / cuts /landmarks) _____

Fate of Locality: (accessible / buried / graded away) _____

Coordinates:UTM: _____ **E/** _____ **N// Lat. N** _____ **Long. W** _____ **Elev.** _____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing Generation Station

Project Number: PLD 28067850.13000

Project Location: Marsh Landing

County: Contra Costa

Date: Sept 9, 2011

Page: 1 of 1

Monitor: Richard Scarano

Total Hrs: 8 Total Mi: 256

Project areas monitored: Excavations in Power Block / Pile driving Sports

Time in: 6:47 AM

Time out: 3:30 PM

Fossils: No fossils were discovered today

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults)
None visable in today excavations / fill material

Lithology: Grain size: (F+M/ C) Color: Tan Texture: _____ Sorting: _____
Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate /
Mineralization: calcite / siliceous / paleosol / alluvium / lag deposits / N/A

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)
Clear & mild w/ light breeze. None

Excavation conditions: (status / equipment / cuts / access) Good

Other Observations & Comments: Trenching for Elect duct banks did not impact O.G.
Crews continue with Cleanup around piles after 3:30 P.M.
This is only Surface work and not monitored.

Field Number: _____ Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates: UTM: _____ E/ _____ N/ Lat. N _____ Long. W _____ Elev. _____

Number of specimens / paperbags / boxes / samples (bags of matrix):

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing Generation Station

Project Number: Pleo 28067850.13000

Project Location: Marsh Landing

County: Contra Costa

Date: Sept 12, 2011

Page: 1 of 1

Monitor: Richard Sarmo

Total Hrs: 8 Total Mi: 256

Project areas monitored:

Excavations for Elect. duct banks & Power Block

Time in: 6:50 AM

Time out: 3:30 PM

Fossils: No fossils were discovered today.

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

None visible in todays excavations - (engineered fill)

Lithology: Grain size: (F+M)/ C) Color: Tan Texture: _____ Sorting: _____

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate /

Mineralization: calcite / siliceous / paleosol / alluvium / lag deposits / N/A

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Excavation conditions: (status) equipment / cuts / access - Safe

excavations are ongoing.

Other Observations & Comments: Excavations in Mostly do not exceed -5ft.

Pile driving continues.

Field Number: _____ Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates: UTM: _____ E/ _____ N/ Lat. N _____ Long. W _____ Elev. _____

Number of specimens / cases/boxes / samples / hours of monitor

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing Generation Station

Project Number: Blo 28067850.13000

Project Location: Marsh Landing

County: Contra Costa

Date: Sept 13, 2011

Page: 1 of 1

Monitor: Richard Sorrow

Total Hrs: 6.5 Total Mi: 257

Project areas monitored: South end of Power Block 1 & 2/Electrical duct bank

Time in: 6:50 AM

Time out: 1:30 PM

Fossils: No new fossil discoveries were made today.

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

N/A

Lithology: Grain size: (F+M/ C) Color: Tan Texture: _____ Sorting: _____

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions). Weathering: fissile / indurate /

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / N/A

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Clear, light breeze, temp in high 70's. None.

Excavation conditions: (status / equipment / cuts / access) Good / Safe

Cat 315 Excavator.

Other Observations & Comments: File driving continues.

Excavations (trenching) for electric duct banks did not reach native sediments today.

Field Number: _____ Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates: UTM: _____ E/ _____ N/ Lat. N _____ Long. W _____ Elev. ____

Number of specimens / specimens / boxes / samples

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing Generation Station

Project Number: P.O. 28067850.13000

Project Location: Marsh Landing

County: Contra Costa

Date: Sept. 14, 2011

Page: 1 of 1

Monitor: Richard Serrano

Total Hrs: 6 Total Mi: 256

Project areas monitored: Power Block 1 / Elect. duct bank excavation

Time in: 6:57 AM

Time out: 1:00 PM

Fossils: No new fossil discoveries were made today.

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

No visible in today's excavations. (Fill material)

Lithology: Grain size: (F-M/ C) Color: Tan Texture: _____ Sorting: _____

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate /

Mineralization: calcite / siliceous / paleosol / alluvium / lag deposits / N/A

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Sunny, Clear, temp in high 70's Light breeze. / None

Excavation conditions: (status / equipment / cuts / access) Good / Safe

Other Observations & Comments: Pile driving continues in unit 3 and south end of Unit 2 to SF 0758 area.

Excavations for elect. duct banks were in fill material and did not exceed -4 ft.

Field Number: _____ Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates: UTM: _____ E _____ N Lat. N _____ Long. W _____ Elev. _____

Number of specimens / paperbags / boxes / cubitainers / museum quality

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing Generation Station

Project Number: Plan 28061850.13000

Project Location: Marsh Landing

County: Contra Costa

Date: Sept. 15, 2011

Page: 1 of 1

Monitor: Richard Serrano

Total Hrs: _____ Total Mi: 256

Project areas monitored:

Time in: 6:55 AM

No. of Power Blocks building pad / Power Block 2 Time out: ' PM

Fossils: No new fossil discoveries were made today.

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

No visable in today excavations.

Lithology: Grain size: (F / M / C) Color: Tan Texture: _____ Sorting: _____

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate /

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / N/A

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Clear, Sunny, temp in the mid 70's breezy in afternoons.

Excavation conditions: (status / equipment / cuts / access) Safe.

Other Observations & Comments: Most excavations do not exceed 5ft.

Assist Annette w/ collecting samples pile drillings.

Field Number: _____ Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates UTM: _____ E / _____ N Lat. N _____ Long. W _____ Elev. _____

Number of specimens / specimens / items / samples collected:

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

2.24 PAL-5

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 15 Sept 2011

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 8.5 **Total Mi:** 160

Project areas monitored: pile driving

Time in: 7:00

Time out: 4:00

Fossils: none observed

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

massive sand dunes with some bedding / lenses

Lithology: ***Grain size:*** (F) / M / C) ***Color:*** tans to dk brown ***Texture:*** _____ ***Sorting:*** well

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate / none

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / none

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Excavations: (dims. / stratum / cuts / access) pile driving SF008, SF082 (Proj B) SF019

Other Observations & Comments:

Field Number: _____ **Field ID:** _____ **Datum: NAD 27 CONUS** _____

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates:UTM: _____ E/ _____ N// Lat. N _____ Long. W _____ Elev. ____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

389-4100-3E21

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing Generation Station

Project Number: Rad 28067850.13000

Project Location: Marsh Landing

County: Contra Costa

Date: Sept. 16, 2011

Page: 1 of 1

Monitor: Richard Serrano

Total Hrs: 10 Total Mi: 257

Project areas monitored: Power Blocks 1 and building foundation pad

Time in: 6:50AM

Time out: 3:30 PM

Fossils: No fossil discoveries were made today.

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults
None visable in todays excavations as they were in fill.

Lithology: Grain size: (F / M / C) Color: ~~Tan~~ Texture: N/A Sorting: n/a
Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate /
Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / N/A

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)
Sunny, temp. in 70's w/ light breeze.

Excavation conditions: (status / equipment / cuts / access) Safe and good.
Cat 315 & 349 Excavator

Other Observations & Comments:
Pile driver crews Continue. Checking for dirt, bro. Silty Sand.
Excavation (trenching) for fire line and Elect. duct banks
Continues. Both are within engineered fill.
Pile driving crew working 10 hrs. today. One crew working Sat.

Field Number: _____ Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates.UTM: _____ E _____ N Lat. N _____ Long. W _____ Elev. ___

Number of specimens / specimens / boxes / samples this locality:

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 17 Sept 2011

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 8 **Total Mi:** 160

Project areas monitored: pile driving

Time in: 7:00

Time out: 3:30

Fossils: none observed

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

sand dune, with lenses of silty sand

Lithology: *Grain size:* (F / M / C) *Color:* tans to dk brown *Texture:* _____ *Sorting:* well

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate / none

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / none

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

hot

Excavation conditions: (stratigraphy / equipment / cuts / access) SF 75B active pile driving collected samples; collected samples from SF 75A and SF 019

Other Observations & Comments:

Field Number: _____ **Field ID:** _____ **Datum:** NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates:UTM: E/ N// Lat. N Long. W Elev.

Number of specimens / paperbags / boxes / samples / bags of matrix:

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing Generation Station

Project Number: Blad 28067850.13000

Project Location: Marsh Landing

County: Contra Costa

Date: Sept. 19, 2011

Page: 1 of 1

Monitor: Richard Serrano

Total Hrs: 10 Total Mi: 25

Project areas monitored: N/W corner of building foundation area

Time in: 6:50 AM

Time out: 5:30 PM

Fossils: No fossils were discovered today.

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

None visable in today's excavations. (Engineered fill

Lithology: Grain size: (F-M/ C) Color: Tan Texture: _____ Sorting: _____

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions). Weathering: fissile / indurate /

Mineralization: calichie / siliceous / paleosol / alluvium / lag deposits / N/A

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Sunny, Clear, Light breeze. Warming to high 80's. / None

Excavation conditions: (status / equipment / cuts / access) Safe

Cat Excavators #325 & 349B

Other Observations & Comments: Pile driving continues.

Trenching for fire line continues at N/W corner of project area. All in fill and less than 5 ft.

Field Number: _____ Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates: UTM: _____ E/ _____ N/ Lat. N _____ Long. W _____ Elev. ____

Number of specimens / specimens / boxes / samples

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

2124 PAL-5

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 14 Sept 2011

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 10 **Total Mi:** 160

Project areas monitored: pile driving

Time in: 7:00

Time out: 5:30

Fossils: none observed

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

sand dune deposit

Lithology: ***Grain size:*** (F / M / C) ***Color:*** tans to dark brown ***Texture:*** _____ ***Sorting:*** well

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate / w

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / none

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

hot - heat illness issues

Excavation conditions: (status / equipment / cuts / access) : _____

Other Observations & Comments:

collected samples from pile driving spoils, noting color changes in spoils

Field Number: _____ **Field ID:** _____ **Datum: NAD 27 CONUS** _____

Condition: (poor / fair / good / excellent / damaged / partial / whole) _____

_____ **Approx. age:** _____

Soils: _____

Location: (pads / cuts /landmarks) _____

Fate of Locality: (accessible / buried / graded away) _____

Coordinates:UTM: _____ E/ _____ N// Lat. N _____ Long. W _____ Elev. ____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing Generation Station

Project Number: Rev 28067850.13000

Project Location: Marsh Landing

County: Contra Costa

Date: Sept 20, 2011

Page: 1 of 1

Monitor: Richard Scarmuzzo

Total Hrs: 8 Total Mi: 252

Project areas monitored:
N/W Corner of project area.

Time in: 6:56 AM

Time out: 3:30 PM

Fossils: Small rodent discovered in east wall of ponding basin SITE 1 wall. In situ within dark brown silty sands. Appears to have been exposed by wind and past rains.

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults
Tan fine sand approx 10ft thick over dark brown silty sands (Ponding basin bottom of East wall)

Lithology: Grain size: (F+M/ C) Color: Tan Texture: _____ Sorting: _____
Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate /
Mineralization: calcite / siliceous / paleosol / alluvium / lag deposits / N/A

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)
Sunny, Clear and Warm

Excavation conditions: (status / equipment / cuts / access) Safe / Good

Other Observations & Comments: Pole digging continues. Collect samples for Annette Co.
Excavation for Fire Line also continues.
~~Back Hoe Excavation~~ Hand dug back hoe excavations continues in power block West side.

Field Number: _____ Field ID: _____ Datum: NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates UTM: _____ E _____ mE Lat. N _____ Long. W _____ Elev. ___

Number of specimens / coordinates / boxes / samples (keep or collect)

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

2.24 PAL-5

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 20 Sept 2011

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 4.5 **Total Mi:** 147

Project areas monitored: pile driving

Time in: 1:30

Time out: 6:00

Fossils: none observed

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

sand dune deposits

Lithology: ***Grain size:*** (F / M / C) ***Color:*** tan to dk brown ***Texture:*** _____ ***Sorting:*** well

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate / none

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / none

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

hot - heat illness issues

Excavation conditions: (status / equipment / cat. / access)

Other Observations & Comments:

collected samples from pile driving spoils, noting color changes in spoils

Field Number: _____ **Field ID:** _____ **Datum: NAD 27 CONUS**_____

Condition: (poor / fair / good / excellent / damaged / partial / whole) _____

Approx. age: _____

Soils: _____

Location: (pads / cuts /landmarks) _____

Fate of Locality: (accessible / buried / graded away) _____

Coordinates:UTM:_____E/_____N// Lat. N_____Long. W_____Elev.____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

2.24 PAL-5

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 22 Sept 2011

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 9.5 **Total Mi:** 110

Project areas monitored: pile driving

Time in: 12:00 ~~→~~ 11:30 (to ~~collect~~ purchase buckets)

Time out: 5:30

Fossils: none observed

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

~~cut~~ fill sand over deposit

Lithology: ***Grain size:*** (F / M / C) ***Color:*** tans/brown ***Texture:*** _____ ***Sorting:*** well

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate / none

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / none

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

hot - heat illness issues

Excavation conditions: (status / equipment / safe access)

Other Observations & Comments:

collected samples from pile driving spoils, noting color changes in spoils

Field Number: _____ **Field ID:** _____ **Datum:** NAD 27 CONUS

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates: UTM: _____ E/ _____ N// Lat. N _____ Long. W _____ Elev. _____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: Sept. 26, 2011

Page: 1 of 1

Monitor: Richard Serrano

Total Hrs: 2 **Total Mi:** 45

Project areas monitored:

Excavations in Power Block 1

Time in: 3:00

Time out: 5:00

Fossils: No new discoveries were made today.

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

approx. 3 ft. of fill over native tan and drk. brn. fine sands.

Lithology: ***Grain size:*** (F / M / C) ***Color:*** ***Texture:*** ***Sorting:***

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions Weathering: fissile / indurate /

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits /

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Weather was warm. / no saftey concerns

Excavation conditions: (status / equipment / cuts / access) Access was safe.

Other Observations & Comments:

Assisted Annette C. with sample collection and transport to storage area

Field Number: **Field ID:** **Datum: NAD 27 CONUS**

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates:UTM: **E/** **N// Lat. N** **Long. W** **Elev.**

Number of specimens / paperbags / boxes / samples / bags of matrix:

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 16 Sept 2011

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 9 **Total Mi:** 170

Project areas monitored: pale diving SF 20 and SF 84

Time in: 7.00

Time out: 4.30

Fossils: none observed

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

Lithology: ***Grain size:*** (F / M / C) ***Color:*** _____ ***Texture:*** _____ ***Sorting:*** _____

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate /

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / _____

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Excavation conditions: (status / equipment / cuts / access) collected samples from observed dark layer in Section SF 20. No dark layer in section SF 84

Other Observations & Comments:

- purchased buckets to collect additional samples. Set up screen washing station on-site to process samples.
- cut into SF 84 spoils piles, no distinct color change observed

Field Number: _____ **Field ID:** _____ **Datum: NAD 27 CONUS**

Condition: (poor / fair / good / excellent / damaged / partial / whole)

Approx. age:

Soils:

Location: (pads / cuts /landmarks)

Fate of Locality: (accessible / buried / graded away)

Coordinates:UTM: E/ N// Lat. N Long. W Elev.

Number of specimens / paperbags / boxes / samples / bags of matrix:

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 27 Sept 2011

Page: 1 of 1

Monitor: Annette Cordier

Total Hrs: 10 **Total Mi:** 160

Project areas monitored: trenching dirt berm

Time in: 7:00

Time out: 5:30

Fossils: none observed

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

native ~ 4ft below original ground surface, sand ~~dune~~ dune deposits

Lithology: ***Grain size:*** (F / M / C) ***Color:*** tan ***Texture:*** _____ ***Sorting:*** well

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate / none

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / none

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

getting hot again

Excavation conditions: (status / equipment / cuts / access) excavations - 65ft long x 5ft wide x 7½ft deep (down to 6.62 elevation) and 2 trenches 10ft long x 3½ft wide x 7½ft deep. (from original ground surface)

Other Observations & Comments: Josh of Kiewit started in the morning

first excavations to hit native might hit native in the afternoon.

native material was impacted by excavations starting @ 3:30 pm

native ~ 4ft below original ground surface

Field Number: _____ **Field ID:** _____ **Datum: NAD 27 CONUS** _____

Condition: (poor / fair / good / excellent / damaged / partial / whole) _____

Approx. age: _____

Soils: _____

Location: (pads / cuts /landmarks) _____

Fate of Locality: (accessible / buried / graded away) _____

Coordinates:UTM: _____ **E/** _____ **N// Lat. N** _____ **Long. W** _____ **Elev.** _____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 28 Sept 2011

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 10 **Total Mi:** 160

Project areas monitored: trenching in NW corner of project

Time in: 7:00

Time out: 5:30

Fossils: none observed South of 3 AST's (above ground storage tanks)

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

Sand dune deposits

Lithology: ***Grain size:*** (F / M / C) ***Color:*** tan to dark brown ***Texture:*** _____ ***Sorting:*** well

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate / none

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / none

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Hot

Excavation conditions: (status / equipment / access) ~ 350 ft of trenching

Other Observations & Comments:

Richard came at the end of the day to help collect pile 3 samples from spoils.

Field Number: _____ **Field ID:** _____ **Datum: NAD 27 CONUS** _____

Condition: (poor / fair / good / excellent / damaged / partial / whole) _____

_____ **Approx. age:** _____

Soils: _____

Location: (pads / cuts /landmarks) _____

Fate of Locality: (accessible / buried / graded away) _____

Coordinates:UTM: _____ **E/** _____ **N/ Lat. N** _____ **Long. W** _____ **Elev.** ____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

URS DAILY ARCHAEO/PALEO FIELD SUMMARY

Project Name: Marsh Landing

Project Number: 28067850

Project Location: Marsh Landing

County: Contra Costa

Date: 29 Sept 2011

Page: 1 of 1

Monitor: Annette Cornelius

Total Hrs: 9.5 **Total Mi:** 160

Project areas monitored: trenching

Time in: 7:00

Time out: 5:00

Fossils: tooth found in processing sample

Stratigraphy: (turbidites / bioturbation / channels / beds / laminations / massive / contacts / faults

top 4½ fill; bottom ½ dark gray

with the exception of the dark gray layer (possible petroleum impact?!?)

excavations hand only 1-2 ft impact to native

Lithology: ***Grain size:*** (F / M / C) ***Color:*** tans / dark gray ***Texture:*** _____ ***Sorting:*** well

Sed: (mud/s silt/s sand/s lime/s shale conglomerate breccia concretions) Weathering: fissile / indurate / none

Mineralization: caliche / siliceous / paleosol / alluvium / lag deposits / none

Site conditions & personnel: (non-compliance / hazards / weather / safety concerns / visitors)

Excavation conditions: (status / equipment / cuts / access) 5 ft deep, 7½ ft wide, 125 ft long and 5 ft deep, 4 ft wide and 30 ft long

Other Observations & Comments:

during down-time (no excavations) processed samples

Field Number: _____ **Field ID:** _____ **Datum: NAD 27 CONUS** _____

Condition: (poor / fair / good / excellent / damaged / partial / whole) _____

Approx. age: _____

Soils: _____

Location: (pads / cuts /landmarks) _____

Fate of Locality: (accessible / buried / graded away) _____

Coordinates:UTM: _____ **E/** _____ **N// Lat. N** _____ **Long. W** _____ **Elev.** _____

Number of specimens / paperbags / boxes / samples / bags of matrix: _____

Subsection 2.25(Soil & Water-2)

As of 9-30-2011

Report of Effectiveness of Drainage , Erosion & Sediment Control

Drainage	No Issue to report
Erosion	No Issue to report
Sedimentation Control	No Issue to report

(Mass Grading commence on May19, 2011 and completed on May 13, 2011)

1.0 There is no known issues with regards to drainage, erosion.

2.0 BMP has been installed on site are per the approved SWPPP and all deficiencies has been addressed and maintained.

3.0 SWPPP inspection & monitoring was performed per the approved SWPPP

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 15, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

STRUC-1-12.0 (CBO-0295)
Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0295 **Title** **STRUC-1-12.0** **File No** **015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Calcs	910R-01 Rev. 0		CT Exhaust/SCR Cooling Air Fan Piling Calcs	FW	9/15/2011	9/15/2011	Approved
Drawing	2009-019-SF-075D Rev. 0		SCR System Unit #4 Fan Foundation Piling Plan	FW	9/15/2011	9/15/2011	Approved
Drawing	2009-019-SF-075C Rev. 0		SCR System Unit #3 Fan Foundation Piling Plan	FW	9/15/2011	9/15/2011	Approved
Drawing	2009-019-SF-075B Rev. 0		SCR System Unit #2 Fan Foundation Piling Plan	FW	9/15/2011	9/15/2011	Approved
Drawing	2009-019-SF-075A Rev. 0		SCR System Unit #1 Fan Foundation Piling Plan	FW	9/15/2011	9/15/2011	Approved

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 16, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

STRUC-1-44.0 (CBO-0296)
Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

2.26 STRUC-1

Marsh Landing - CBO Transmittal Report

CBO-0296 **Title STRUC-1-44.0** **File No 015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Calcs	910G-03 Rev. 1		Get Step-up & AUX Transformer Piling	RS	9/16/2011	9/16/2011	Approved
Drawing	2009-019-SF-084 Rev. 0		Unit #3 CTG Step-up Transformer & UAT Transformers Foundation	RS	9/16/2011	9/16/2011	Approved
Letter	0759-001		URS Letter of Clarification Geo Tech	RS	9/16/2011	9/16/2011	Approved

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 19, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

STRUC-1-74.0 (CBO-0302)
Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0302 **Title** **STRUC-1-74.0** **File No** **015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	110829_Revised_Sealed_12x		Electrical Manhole MH-2 12x12x8 Prec. Manhole	DS	9/16/2011	9/19/2011	Approved
Clacs	110829_Revised_Sealed 12x1		Electrical Manhole MH-1 12x12x9	DS	9/16/2011	9/19/2011	Approved
Calcs	110829_Revised_Sealed 12x1		Electrical Manhole MH-2 12x12x8	DS	9/16/2011	9/19/2011	Approved
Drawing	110829_Revised_Sealed_12x		Electrical Manhole MH-1 12x12x9 Prec. Manhole	DS	9/16/2011	9/19/2011	Approved
Drawing	110829_Revised_Sealed_12x		Electrical Manhole MH-3 12x12x10 Prec. Manhole	DS	9/16/2011	9/19/2011	Approved
Calcs	110829_Revised_Sealed_12x		Electrical Manhole MH-3	DS	9/16/2011	9/19/2011	Approved

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 20, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 2

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

STRUC-1-43.0 (CBO-0297) w/ Comments	ELEC-1-17.0 (CBO-0290) Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0290 **Title** **ELEC-1-17.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-ED-340 rev2	08/30/11	Electrical Duct Bank Layout GSU 4 Switchyard Area	MT	9/19/2011	9/20/2011	Approved
Drawing	2009-019-ED-330 rev2	08/30/11	Electrical Duct Bank Layout GSU 2 and 3 and Switchyard Area	MT	9/19/2011	9/20/2011	Approved
Drawing	2009-019-ED-320 rev2	08/30/11	Electrical Duct Bank Layout GSU 1 and 2 and Switchyard Area	MT	9/19/2011	9/20/2011	Approved

CBO-0297 **Title** **STRUC-1-43.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Calcs	910G-04 Rev A		CTG Step-Up and Aux Transformer Foundation	RS		9/20/2011	Returned with comments / *needs fire review*
Drawing	2009-019-SF-085A revA		CTG Step-Up Transformer Unit #3 and UAT Transformers Foundation Plan, Sections and Details	RS		9/20/2011	Returned with comments / *needs fire review*
Drawing	2009-019-SF-085 revA		CTG Step-Up Transformer Unit #3 and UAT Transformers Foundation Plan, Sections and Details	RS		9/20/2011	Returned with comments / *needs fire review*

2.26 STRUC-1

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 27, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

STRUC-1-8.3 (CBO-0312)
Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

2.26 STRUC-1

Marsh Landing - CBO Transmittal Report

CBO-0312 **Title STRUC-1-8.3** **File No 015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing - VENDO	190-SD-0001-001		Shelter One Type C 8190 Equipment Shelter	FW	9/27/2011	9/27/2011	Approved
Calcs - VENDOR	190-CA-0004-001.		Structural Calculations for C8109 Equipment Shelter	FW	9/27/2011	9/27/2011	Approved

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 19, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

STRUC-1-74.0 (CBO-0302)
Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0302 **Title** **STRUC-1-74.0** **File No** **015F**

Document Type	Dwg No _Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	110829_Revised_Sealed_12x		Electrical Manhole MH-2 12x12x8 Prec. Manhole	DS	9/16/2011	9/19/2011	Approved
Clacs	110829_Revised_Sealed 12x1		Electrical Manhole MH-1 12x12x9	DS	9/16/2011	9/19/2011	Approved
Calcs	110829_Revised_Sealed 12x1		Electrical Manhole MH-2 12x12x8	DS	9/16/2011	9/19/2011	Approved
Drawing	110829_Revised_Sealed_12x		Electrical Manhole MH-1 12x12x9 Prec. Manhole	DS	9/16/2011	9/19/2011	Approved
Drawing	110829_Revised_Sealed_12x		Electrical Manhole MH-3 12x12x10 Prec. Manhole	DS	9/16/2011	9/19/2011	Approved
Calcs	110829_Revised_Sealed_12x		Electrical Manhole MH-3	DS	9/16/2011	9/19/2011	Approved

Subsection 2.32(Waste 1)
As of -9-30-2011

Asbestos Removal

All work completed

Subsection 2.33(Worker Safety-3)

As of 9-30-2011

Days Without Incident	229 days(As of 2-14-2011)
No. of Employee Trained to Date (Kiewit Direct)	62
No. of Employee Trained for September 2011 (Kiewit Subcontractor)	32
Safety Management Actions	0
Incident Alert	2
Continuing un-resolved situations & Incidents which may pose danger to life and Health	0

Incident Alert	Date	Summary
1	8/26/2011	Pile delivery truck fail to see a previously driven indicator plie and struck it. No injury and only slight damage to truck and plie.
2	8/29/2011	While operating a 480V-100Amp fused disconnect switch, a linkage came loose causing linkage to come in contact with fuse resulting in an Arc blast. The blast was contained within the disconnect as designed and no one was injured.

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 27, 2011
FROM : Jacqueline Ritchie
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 3

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

✓ CIVIL-1-5.0 (CBO-0251)
Approved

STRUC-1-19.0 (CBO-0288)
Returned with Comments

TSE-2-1.0 (CBO-0309)
Approved

Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Marsh Landing - CBO Transmittal Report

CBO-0251 **Title** **CIVIL-1-5.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Drawing	2009-019-CS-400 rev2	08/09/11	Temporary Facilities Plan	DS	9/27/2011	9/27/2011	Approved w/ Fire Approval

CBO-0288 **Title** **STRUC-1-19.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Calcs	910R-02 revA part three		CT Exhaust/SCR Cooling Air Fan Foundation part 3	FW		9/27/2011	Returned with comments
Calcs	910R-02 revA part two		CT Exhaust/SCR Cooling Air Fan Foundation part 2	FW		9/27/2011	Returned with comments
Calcs	910R-02 revA part one		CT Exhaust/SCR Cooling Air Fan Foundation part 1	FW		9/27/2011	Returned with comments
Drawing	2009-019-SF-076C revA		SCR Fan Foundation Pre-Pour Embedment Details	FW		9/27/2011	Returned with comments
Drawing	2009-019-SF-076B revA		SCR Fan Foundation Sections and Details	FW		9/27/2011	Returned with comments
Drawing	2009-019-SF-076 revA		SCR Fan Foundation Plan	FW		9/27/2011	Returned with comments

CBO-0309 **Title** **TSE-2-1.0** **File No** **015F**

Document Type	Dwg No Rev	Rev Date	Description	CCC Eng	Apv Date	Upload / Rtn Date	Comments
Resume	EE3 RESUME - PHELPS		Resume for Daren Phelps, PE	DS	9/27/2011	9/27/2011	Approved

2.34 TSE-5

Anselmo De Haro
19177 S. Corral Hollow Road Tracy, Ca. 95304 209-271-3035 saltie@sbcglobal.net

Objective: To obtain employment where I can utilize my knowledge, skills, abilities and experience in **Construction Field Inspections/Supervision.**

Qualifications:

- Reading and understanding plans/specifications/details/prints/shop drawings.
- International Code Council/American Concrete Institute/Nuclear Gauge Certified.
- Concrete/shot crete, masonry block/grout placement/batch plant inspections.
- Standard rebar/wire gauge screen/post tension tendons/anchor bolt placement.
- Pull testing anchor bolts/rebar /torque testing bolts/shear testing bolts.
- General field/shop welding inspections/verifying materials/mill certifications.
- Sprayed applied fire proofing inspections/sampling/testing.
- Concrete/shot crete, masonry/grout/sampling/testing/verifying load tickets.
- Ventilation smoke control/fire alarm/safety lights testing.
- Knowledge of UBC /regulations/standards/site safety codes/specifications.
- Familiar with ASTM/ACI/ICC/FTM field testing methods/standards/procedures.
- Maintained daily log of construction /inspection activities/compared progress reports.
- Examined quality of finished installations for conformity to standards/approved plans.
- Computed monthly certified payroll records of work completed/approved payments.
- Familiar with underground installation of water pipelines/drain lines/fiber optics.
- Able to communicate and interact effectively with individuals of all levels.
- Fluent in both English and Spanish. Frequently translate on the job.

Other Training: Storm Water Pollution Prevention/Confined Space/Competent Person/Traffic Control & Flagging /Safe Work Permits/Hazardous Materials/MSDS Labeling/Conservation of Natural Resources/Endangered and Protected Species Act/Sensitive Biological Resources Awareness

Work Experience:

Senior Construction Inspector	05/2008 to 03/2009
East Bay Municipal Utility District	Oakland, Ca. 94607
Special Inspector	05/2007 to 02/2008
BSK Associates Inspection Services	Pleasanton, Ca. 94566
Senior Special Inspector	03/2006 to 11/2006
Wallace-Kuhl Associates Inc.	Stockton, Ca. 95219
Special Inspector	90 day temp. Job
Dynamic Consultants Inc.	Mountain View, Ca. 94043
Special Inspector	10/2000 to 11/2005
Construction Testing Services	Pleasanton, Ca. 94566

Education:

Tracy High School Tracy, Ca. 95376 - San Joaquin Delta College Stockton, Ca. 95207
US Army Quarter Master School Fort Lee, Va. 23801- American Concrete Institute
International Code Council - Pacific Nuclear Technology Co.

Temp Warehouse

CONTRA COSTA COUNTY
Department of Conservation & Development
Building Inspection Division
651 Pine Street, N. Wing – 3rd Floor
Martinez, CA 94553 1229

MARSH LANDING PROJECT TRANSMITTAL

DATE : September 12, 2011
FROM : Roxanna Hymer
RE : Contra Costa County Building Inspection has reviewed the attached listed items for Mirant/Genon Marsh Landing Project - Building Permit #: BIIN11-001018

Total packages included in this Transmittal: 1

Sent for your ☐ **Information** ☒ **Review** ☐ **As Requested**

The following packages have been returned with comments and/or have been approved. Please, see the attached detailed list of documents included with each package.

Temporary Facilities 1.0 (CBO-0289) Approved		

D. Sandercock/R.H.
Deborah Sandercock, S.E.
Supervising Structural Engineer

Marie Taylor
Supervising Building Inspector

Gary Faria
Senior Grading Inspector

Z:\Marsh Landing Power Plant Project\Marsh Landing Transmittals\0Comments Transmittal.doc

Marsh Landing - CBO Transmittal Report

CBO-0289 **Title TEMPORARY FACILITIES- File No 015F**

Document Type	*Dwg No Rev*	*Rev Date*	*Description*	*CCC Eng*	*Apv Date*	*Upload / Rtn Date*	*Comments*
Details	UM2 connections		Trailer Connection Detail	DS	09/12/2011	09/12/2011	Approved

3.0 Current Compliance Matrix

Mirant Marsh Landing CEC Compliance Matrix

Based on CEC Final Decision
08 - AFC -03

Color Code Key:

Pre-Const	Construction	Commiss.	Operations	To CEC or Agency	Approved by CEC

Sort Code	Cond. #	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Lead Party	Date sent to CEC, CBO or agency	CEC Log # and Status	Comments
CONS	AQ-39	Contact the BAAQMD Technical Services Division regarding requirements for the continuous emission monitors, sampling ports, platforms, and source tests required by AQ-10, AQ-27, AQ-28, AQ-30 and AQ-32. Conduct all source testing and monitoring in accordance with the District approved procedures.	Contact the District for specifications on monitors, ports, platforms and source tests and shall submit verification of this contact to the District and CPM with the initial source test protocol	With in 180 days of Issuance of the Authority to Construct	9/25/11	KIEWIT	9/13/2011		
CONS	GEN-6	Assign to the project, qualified and certified special inspector(s) who shall be responsible for the special inspections required by the 2007 CBC.	Submit to the CBO for review and approval, with a copy to the CPM, the name(s) and qualifications of the certified weld inspector(s), or other certified special inspector(s) assigned to the project	At least 15 days prior to start of an activity requiring special inspection	As required	KIEWIT	To CBO 2/2/11 Sent to CE 9/23/2011		CBO Approved 2-24-11 9/23/2011 Sent Quals to CEC for Jay Locatelli, Micah Ek, Jeffrey Brooks, Jason Burris, Ryan Doyel, and Laura Johnson. Also sent CBO approvals for Jahn Sasser, Stanley Silva, and Anselmo De Haro.
CONS	Soil & Water-6c	Provide evidence to the CPM that the City has agreed to supply emergency backup water to the project in sufficient quantities to meet the projects needs at a flow rate comparable with the flow rate provide by one on site well	Submit to the CPM evidence that city water meters are installed and are operational. And proof that the City can deliver alternative water the site in the event of an emergency interruption at a flow rate of 420gpm	No later than 30 days prior to installing a connection to the City of Antioch potable water main	9/1/11	GenOn	9/29/11		Provided copies of correspondence regarding supply of city water.
CONS	Soil & Water-6d	If Primary Alternative water source is approved by CPM to be City of Antioch Fresh Water Supply. (1)Pay fee equal to no more than $1,000/ AF of City of Antioch Water consumed annually. (2) A payment of $15,000 shall be made to the city to offset water used during construction.	Provide evidence that brackish groundwater is environmentally undesirable or economical unsound. Provide proof that the initial water conservation fee of $15,000 was paid to the city of Antioch.	Prior to site operations	4/1/13	GenOn	9/29/11		Provided evidence of $15,000 payement to the city.

Mirant Marsh Landing CEC Compliance Matrix

Based on CEC Final Decision
08 - AFC -03

Color Code Key:

Pre-Const	Construction	Commiss.	Operations	To CEC or Agency	Approved by CEC

Sort Code	Cond. #	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Lead Party	Date sent to CEC, CBO or agency	CEC Log # and Status	Comments
CONS	VIS-1a	Develop a treatment plan for the surfaces of all project structures and buildings visible to the public as specified in the condition.	Submit the proposed treatment plan to the CPM for review and approval and simultaneously to the CCC or responsible jurisdiction for review and comment. Any modifications must be sent to the CPM for approval	At least 90 days prior to specifying the vendor the colors and finishes of the first structures or building that are surface treated during manufacturing	12/1/10	K&M	5/19/2011 6/6/2011		Submitted plan per Condition on 5/19/2011 Submitted Hard Copies to Dawn Owens for submission to the City and County on 5/19/2011. Based on comments from the CEC resubmitted on 6/6/2011
OPS	AQ-SC3	The AQCMM shall submit documentation to the CPM in each monthly compliance report (MCR) that demonstrates compliance with mitigation measures a. through m. for purposes of preventing all fugitive dust plumes from leaving the project site and linear facility routes. Any deviation from the following mitigation measures shall require prior CPM.	The project owner shall include in the MCR (1) a summary of all actions taken to maintain compliance with this condition; (2) copies of any complaints filed with the air district in relation to project construction; and (3) any other documentation deemed necessary by the CPM and AQCMM to verify compliance with this condition. Such	Monthly	Include in MCR	GenOn			
OPS	AQ-SC4	The AQCMM or an AQCMM delegate shall monitor all construction activities for visible dust plumes. Observations of visible dust plumes with the potential to be transported off the project site, 200 feet beyond the centerline of the construction of linear facilities, or within 100 feet upwind of any regularly occupied structures not owned by the project owner indicate that existing mitigation measures are not providing effective mitigation. The AQCMM or delegate shall then implement the following procedures for additional mitigation measures in the event that such visible dust plumes are observed.	The AQCMP shall include a section detailing how additional mitigation measures will be accomplished within the specified time limits.	Monthly	Include in the MCR	GenOn			
OPS	AQ-SC5	The AQCMM shall submit to the CPM, in the MCR, a construction mitigation report that demonstrates compliance with mitigation measures a. through f. for purposes of controlling diesel construction related emissions. Any deviation from the following mitigation measures shall require prior CPM notification and approval.	The project owner shall include in the MCR:(1) a summary of all actions taken to maintain compliance with this condition; (2) a list of all heavy equipment used on site during that month, including the owner of that equipment and a letter from each owner indicating that the equipment has been properly maintained; and (3) any other	Monthly	Include in MCR	GenOn			

Mirant Marsh Landing CEC Compliance Matrix

Based on CEC Final Decision
08 - AFC -03

Color Code Key:

Pre-Const	Construction	Commiss.	Operations	To CEC or Agency	Approved by CEC

Sort Code	Cond. #	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Lead Party	Date sent to CEC, CBO or agency	CEC Log # and Status	Comments
OPS	AQ-SC6	The project owner shall submit to the CPM for review and approval any modification proposed by the project owner to any project air permit. The project owner shall submit to the CPM any modification to any permit proposed by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, for the project.	submit any proposed air permit modification to the CPM within five working days of either: 1) submittal by the project owner to an agency, or 2) receipt of proposed modifications from an agency. The project owner shall submit all modified air permits to the CPM within 15 days of receipt.	Within 5 working days of its submittal	Include in MCR	GenOn			
COMM &OPS	AQ-SC8	Submit to the CPM quarterly operation reports that include operational and emissions information as necessary to demonstrate compliance with the conditions of certification.	Submit quarterly operation reports to the CPM and APCO no later than 30 days following the end of each calendar quarter. This information shall be maintained on site	Quarterly	30 days after end of quarter	GenOn			
COMM	AQ-SC9	The facility shall be operated such that simultaneous commissioning of no more than two combustion turbines will occur without abatement of nitrogen oxide and CO emissions by its SCR system and oxidation catalyst system. Operation of a combustion turbine during commissioning without abatement shall be limited to discrete commissioning activities that can only be properly executed without the SCR or Oxidation Catalyst Systems fully operational.	submit a monthly compliance report to the CPM during the commissioning period demonstrating compliance with this condition.	Monthly	Include in MCR	KIEWIT			25
COMM	AQ-1	Minimize emissions of carbon monoxide and nitrogen oxides from Gas Turbines to the maximum extent possible during the commissioning period.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQSC8).	Quarterly	30 days after end of quarter	GenOn			

Mirant Marsh Landing CEC Compliance Matrix

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08 - AFC -03

Color Code Key:

Pre-Const	Construction	Commiss.	Operations	To CEC or Agency	Approved by CEC

Sort Code	Cond. #	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Lead Party	Date sent to CEC, CBO or agency	CEC Log # and Status	Comments
OPS	AQ-2	At the earliest feasible opportunity in accordance with the recommendations of the equipment manufacturers and the construction contractor, shall tune the S-1, S-2, S-3 and S-4 Gas	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQSC8).	Quarterly	30 days after end of quarter	K&M			
OPS	AQ-3	At the earliest feasible opportunity in accordance with the recommendations of the equipment manufacturers and the construction contractor, install, adjust, and operate the A-1, A-3, A-5 and A-7 Oxidation Catalysts and A-2, A-4, A-6 and A-8 SCR Systems to minimize the emissions of carbon monoxide and nitrogen oxides from S-1, S-2, S-3, and S-4 Gas Turbines. (Basis: BACT, Regulation 2, Rule 2, Section 409)	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQSC8).	Quarterly	30 days after end of quarter	K&M			
COMM	AQ-4	Submit a plan to the District Engineering Division and the CEC CPM, describing the procedures to be followed during the commissioning of the gas turbines. The plan shall include a description of each commissioning activity, the anticipated duration of each activity in hours, and the purpose of the activity. The activities described shall include, but not be limited to, the tuning of the Dry-Low-NOx combustors, the installation and operation of the required emission control systems, the installation, calibration, and testing of the CO and NOx continuous emission	Submit a commissioning plan to the CPM and APCO for approval at least four weeks prior to first firing of the gas turbine describing the procedures to be followed during the commissioning period and the anticipated duration of each commissioning activity.	Four weeks prior to first firing of GT during Commissioning	7/1/12	KIEWIT			

Mirant Marsh Landing CEC Compliance Matrix

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Pre-Const	Construction	Commiss.	Operations	To CEC or Agency	Approved by CEC

Sort Code	Cond. #	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Lead Party	Date sent to CEC, CBO or agency	CEC Log # and Status	Comments
COMM	AQ-5	During the commissioning period, shall demonstrate compliance with AQ-7, AQ-8, AQ-9, and AQ-10 through the use of properly operated and maintained continuous emission monitors and data recorders for the following parameters and emission concentrations:firing hours, fuel flow rates, stack gas nitrogen oxide emission concentrations, stack gas carbon monoxide emission concentrations, stack gas oxygen concentrations The monitored parameters shall be recorded at least once every 15 minutes (excluding normal calibration periods or when the monitored source is not in operation) for the Gas Turbines (S-1, S-2, S-3, and S-4). The owner/operator shall use District-approved methods to calculate heat input rates, nitrogen dioxide mass emission rates, carbon monoxide mass emission rates, and NOx and CO emission concentrations, summarized for each clock hour	Submit to the CPM and APCO for approval the commissioning plan as required in AQ-4.	Four weeks prior to first firing of GT during Commissioning	7/1/12	KIEWIT			
CONS	AQ-6	Install, calibrate, and operate the District-approved continuous monitors specified in AQ-5 prior to first firing of the Gas Turbines (S-1, S-2, S-3 and S-4). After first firing of the turbines, the owner/operator shall adjust the detection range of these continuous emission monitors as	make the site available for inspection by representatives of the District, ARB, and the Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation	As Required	As required	KIEWIT			
COMM	AQ-7	Do not fire Gas Turbine without abatement of nitrogen oxide emissions by the corresponding SCR System and/or abatement of carbon monoxide emissions by the corresponding Oxidation Catalyst for more than 232 hours each during the commissioning period. The owner/operator shall operate the facility such that simultaneous commissioning of no more than two gas turbines will occur without abatement of nitrogen oxides and carbon monoxide by its SCR system and oxidation catalyst system. Such operation of any Gas Turbine without abatement shall be limited to discrete commissioning	Submit to the CPM and APCO for approval the commissioning plan as required in AQ-4. A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC8).	Four weeks prior to first firing of GT during Commissioning	7/1/12	KIEWIT			
OPS	AQ-8	Total mass emissions of nitrogen oxides, carbon monoxide, precursor organic compounds, PM10, and sulfur dioxide that are emitted by the Gas Turbines (S-1, S-2, S-3, and S-4) during the	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQSC8).	Quarterly	30 days after end of quarter	K&M			
OPS	AQ-9	Shall not operate the Gas Turbines (S-1, S-2, S-3, and S-4) in a manner such that the pollutant emissions from each gas turbine will exceed the following limits during the commissioning period.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQSC8).	Quarterly	30 days after end of quarter	K&M			

Mirant Marsh Landing CEC Compliance Matrix

Based on CEC Final Decision
08 - AFC -03

Color Code Key:

Pre-Const	Construction	Commiss.	Operations	To CEC or Agency	Approved by CEC

Sort Code	Cond. #	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Lead Party	Date sent to CEC, CBO or agency	CEC Log # and Status	Comments
COMM	AQ-10	Within 90 days after startup of each turbine, the Owner/Operator shall conduct District and CEC approved source tests for that turbine to determine compliance with the emission limitations specified in AQ-17. The source tests shall determine NOx, CO, and POC emissions during start-up and shutdown of the gas turbines. The POC emissions shall be analyzed for methane and ethane to account for the presence of unburned natural gas. The source test shall include a minimum of three start-up and	Submit to the CPM and APCO for approval the commissioning plan as required in AQ-4.	Thirty working days before the execution of the source tests	7/1/12	KIEWIT			
OPS	AQ-11	Fire the Gas Turbines (S-1, S-2, S-3, and S-4) exclusively on PUC-regulated natural gas with a maximum sulfur content of 1 grain per 100 standard cubic feet. To demonstrate compliance with this limit, the operator of S-1, S-2, S-3 and S-4 shall sample and analyze the gas from each supply source at least monthly to determine the sulfur content of the gas. PG&E monthly sulfur	The result of the natural gas fuel sulfur monitoring data and other fuel sulfur content source data shall be submitted to the District and CPM in the quarterly operation report (AQ-SC8).	Quarterly	30 days after end of quarter	GenOn			
OPS	AQ-12	Do not operate the units such that the heat input rate to each Gas Turbine (S-1, S-2, S-3, and S-4) exceeds 2,202 MMBtu (HHV) per hour.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report.	Quarterly	30 days after end of quarter	GenOn			
OPS	AQ-13	Do not operate the units such that the heat input rate to each Gas Turbine (S-1, S-2, S-3, and S-4) exceeds 52,848 MMBtu (HHV) per day.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report.	Quarterly	30 days after end of quarter	GenOn			
OPS	AQ-14	Do not operate the units such that the combined cumulative heat input rate for the Gas Turbines (S-1, S-2, S-3, and S-4) exceeds 13,994,976 MMBtu (HHV) per year.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report.	Quarterly	30 days after end of quarter	GenOn			

Mirant Marsh Landing CEC Compliance Matrix

Based on CEC Final Decision
08 - AFC -03

Color Code Key:

Pre-Const	Construction	Commiss.	Operations	To CEC or Agency	Approved by CEC

Sort Code	Cond. #	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Lead Party	Date sent to CEC, CBO or agency	CEC Log # and Status	Comments
OPS	AQ-15	Do not operate S-1, S-2, S-3, and S-4 such that the Combined hours for all four units exceeds 7,008 hours per year (excluding operations necessary for maintenance, tuning, and testing).	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQSC8).	Quarterly	30 days after end of quarter	GenOn			
OPS	AQ-16	Ensure that the each Gas Turbine (S-1, S-2, S-3,S-4) is abated by the properly operated and properly maintained Selective Catalytic Reduction (SCR) System A-2, A-4, A-6 or A-8 and Oxidation Catalyst System A-1, A-3, A-5, or A-7 whenever fuel is combusted at those sources and the corresponding SCR catalyst bed (A-2, A-4, A-6 or A-8) has reached minimum operating temperature.	Make the site available for inspection by representatives of the District, ARB, and the Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC8).	As Required	As required	GenOn			
OPS	AQ-17	ensure that the Gas Turbines (S-1, S-2, S-3, S-4) comply with requirements (a) through (i). Requirements (a) through (f) do not apply during a gas turbine start-up, combustor tuning operation or shutdown.	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report.	Quarterly	30 days after end of quarter	GenOn			
OPS	AQ-18	Ensure that the regulated air pollutant mass emission rates from each of the Gas Turbines (S-1, S-2, S-3, and S-4) during a start-up or shut down does not exceed the limits established below. Startups shall not exceed 30 minutes. Shutdowns shall not exceed 15 minutes. NOx (as NO2),CO,POC(as CH4) of Maximum Emissions Per Startup: 36.4 ,216.2 , 11.9 Maximum Emissions During Hour Containing a Startup:45.1, 541.3, 28.5 Maximum Emissions Per Shutdown: 15.1, 111.5, 5.4	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQSC8).	Quarterly	30 days after end of quarter	GenOn			

Mirant Marsh Landing CEC Compliance Matrix

Based on CEC Final Decision
08 - AFC -03

Color Code Key:

Pre-Const	Construction	Commiss.	Operations	To CEC or Agency	Approved by CEC

Sort Code	Cond. #	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Lead Party	Date sent to CEC, CBO or agency	CEC Log # and Status	Comments
COMM &OPS	AQ-19	Do not perform combustor tuning on each Gas Turbine (S-1, S-2, S-3, or S-4) more than twice every consecutive 12 month period. Each tuning event shall not exceed eight hours. Combustor tuning shall only be performed on one gas turbine per day. The owner/operator shall notify the District no later than seven days prior to combustor tuning activity. The emissions during combustor tuning from each gas turbine shall not exceed the limits established below.NOx (as NO2):80, CO:450, POC (as CH4):30	notify both the District and CPM at least 7 days prior to the combustor tuning. A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQ-SC8)	7 days prior to combustor tuning	7/7/12	K&M			
OPS	AQ-20	Do not allow total combined emissions from the Gas Turbines (S-1, S-2, S-3, and S-4), including emissions generated during gas turbine start-ups, and shutdowns to exceed the following limits during any calendar day (except for days during which combustor tuning events occur: (a) 2,468 pounds of NOx (as NO2) per day (Basis: Cumulative Increase) (b) 4,858 pounds of CO per day (Basis: Cumulative Increase) (c) 476 pounds of POC (as CH4) per day (Basis: Cumulative Increase) (d) 864 pounds of PM10 per day (Basis: Cumulative Increase) (e) 596	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQSC8).	Quarterly	30 days after end of quarter	GenOn			
OPS	AQ-21	Do not allow cumulative combined emissions from the Gas Turbines (S-1, S-2, S-3, and S-4), including emissions generated during gas turbine start-ups, combustor tuning, shutdowns, and malfunctions to exceed the following limits during any consecutive twelve-month period: (a) 2,941 pounds of NOx (as NO2) per day (Basis: Cumulative Increase) (b) 8,378 pounds of CO per day (Basis: Cumulative Increase)(c) 693 pounds of POC (as CH4) per day (Basis:	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQSC8).	Quarterly	30 days after end of quarter	GenOn			

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OPS	AQ-22	not allow cumulative combined emissions from the Gas Turbines (S-1, S-2, S-3, and S-4), including emissions generated during gas turbine start-ups, combustor tuning, shutdowns, and malfunctions to exceed the following limits during any consecutive twelve-month period: (a) 78.57 tons of NOx (as NO2) per year (Basis: Offsets)(b) 138.57 tons of CO per year (Basis: Cumulative Increase)(c) 14.21 tons of POC (as CH4) per year (Basis: Offsets)(d) 31.54 tons of PM10 per year (Basis: Cumulative Increase)(e) 4.94 tons of SO2 per year (Basis: Cumulative Increase)	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQSC8).	Quarterly	30 days after end of quarter	GenOn			
OPS	AQ-23a	Do not allow the maximum projected annual toxic air contaminant emissions (per AQ-26) from the Gas Turbines combined to exceed the following limits: formaldehyde 7,785 pounds per year, benzene 202 pounds per year, Specified polycyclic aromatic hydrocarbons (PAHs) 1.98 pounds per year unless the following requirement is satisfied: (1)Perform a health risk assessment to determine the total facility risk using the emission rates determined by source testing and the most current Bay Area Air Quality Management District approved procedures and unit risk factors in effect at the time of the analysis. Submit the risk analysis to the District and the CEC CPM . May request that the District and the CEC CPM revise the carcinogenic compound emission limits specified above. Demonstrates to the satisfaction of the APCO that these revised emission limits will not result in a significant cancer risk, the District and the CEC	Source test results obtained through compliance with AQ-26 and AQ- 30 shall confirm the toxic air contaminant emission rates or submit an updated health risk assessment.	With/in 60 days of initial source testing and	6/30/13	GenOn			

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OPS	AQ-23b	Perform a health risk assessment to determine the total facility risk using the emission rates determined by source testing and the most current Bay Area Air Quality Management District approved procedures and unit risk factors in effect at the time of the analysis.	Submit the risk analysis to the District and the CEC CPM . May request that the District and the CEC CPM revise the carcinogenic compound emission limits specified above. Demonstrates to the satisfaction of the APCO that these revised emission limits will not result in a significant cancer risk, the District and the CEC CPM may, at their discretion, adjust the carcinogenic compound emission limits listed above.	Every 24 months submit with/in 60days of test	As required	GenOn			
OPS	AQ-24	Demonstrate compliance with AQ-12 through AQ-15, AQ-17(a) through AQ-17(e), AQ-18 (NOx, and CO limits), AQ-19 (NOx and CO limits), AQ-20(a), AQ-20(b), AQ-21(a), AQ-21(b), AQ-22(a) and AQ- 22(b) by using properly operated and maintained continuous monitors (during all hours	Make the site available for inspection by representatives of the District, ARB and the Commission to verify the continuous monitoring and recordkeeping system is properly installed and operational.	As Required	As required	GenOn			
OPS	AQ-25	Demonstrate compliance with AQ-17(f), AQ-17(g), AQ-17(h), AQ-17(i), AQ-20(c), AQ-20(d), AQ-20(e), AQ-21(c), AQ-21(d), AQ-21(e), AQ-22(c), AQ-22(d), AQ-22(e), the owner/operator	Make the site available for inspection by representatives of the District, ARB and the Commission to verify the calculation and record keeping system is properly installed	As Required	As required	GenOn			
OPS	AQ-26	Demonstrate compliance with AQ-23, the owner/operator shall calculate and record on an annual basis the maximum projected annual emissions of: Formaldehyde, Benzene, and Specified PAHs. The owner/operator shall calculate the maximum projected annual emissions using the maximum annual heat input rate of 13,994,976 MMBtu/year for S-1, S-2, S-3, and S-4 combined and the highest emission factor (pounds of pollutant per MMBtu of heat input) determined by the most recent of any source test of the S-1, S-2, S-3, or S-4 Gas Turbines. If the highest emission factor for a given pollutant occurs during minimum-load turbine operation, a reduced annual heat input rate may be utilized to calculate the maximum projected annual emissions to reflect the reduced heat input rates during gas turbine start-up and minimum load operation. The reduced annual heat input rate shall be subject to District review and approval.	Make the site available for inspection by representatives of the District, ARB and the Commission to verify the calculation and recordkeeping system is properly installed and operational.	As Required	As required	GenOn			

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COMM	AQ-27a	Conduct a District-approved source test on each corresponding exhaust pointS to determine the corrected ammonia (NH3) emission concentration to determine compliance with AQ-17(e). The source test shall be conducted over the expected operating range of the turbine (including, but not limited to, minimum and full load modes) to establish the range of ammonia injection rates necessary to achieve NOx	Submit the results and field data collected during source tests to the District and CPM within 60 days of testing and according to a preapproved protocol (AQ-29).	Within 60 days of intial source testing	6/30/13	KIEWIT			
OPS	AQ-27b	Repeat the source testing(AQ-27a) on an annual basis thereafter. Ongoing compliance with AQ-17(e) shall be demonstrated through calculations of corrected ammonia concentrations based upon the source test correlation and continuous records of ammonia injection rate.	Testing for steady-state emissions shall be conducted upon initial operation and at least once every 12 months.	With in 60 days of test every 12 months	As required	GenOn			
OPS	AQ-28a	Testing for steady-state emissions shall be conducted upon initial operation and at least once every 12 months.	Submit the results and field data collected during source tests to the District and CPM within 60 days of testing	Annually	Include in ACR	GenOn			
COMM	AQ-28b	conduct a District-approved source test on each corresponding exhaust point P-1, P-2, P-3 and P-4 while each Gas Turbine is operating at maximum load to determine compliance with AQ-17(a), AQ-17(b), AQ-17(c), AQ-17(d), AQ-17(f), AQ-17(g), AQ- 17(h), AQ-17(i), and while each Gas Turbine is operating at minimum load to determine compliance with AQ-17(c), and AQ-17(d) and to verify the accuracy of the continuous emission monitors required in AQ-24. The owner/operator shall test for (as a minimum): water content, stack gas flow rate, oxygen concentration, precursor organic compound concentration and mass emissions, nitrogen	Submit the results and field data collected during source tests to the District and CPM within 60 days of testing and according to a preapproved protocol (AQ-29).	Upon initial operation	6/30/13	KIEWIT			

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COMM &OPS	AQ-29	Obtain approval for all source test procedures from the District's Source Test Section and the CEC CPM prior to conducting any tests. Comply with all applicable testing requirements for continuous emission monitors as specified in Volume V of the District's Manual of Procedures. Notify the District's Source Test Section and the CEC CPM in writing of the source test protocols	Submit the proposed source test plan or protocol for the source tests seven days prior to the proposed source test date to both the District and CPM for approval. The project owner shall notify the District and CPM no later than seven days prior to the proposed source test date and time.	No later than seven days prior to the proposed source test date and time	4/24/13	KIEWIT			
COMM	AQ-30a	conduct a District-approved source test on one of the following exhaust points P-1, P-2, P-3 or P-4 while the Gas Turbine is operating at maximum allowable operating rates to demonstrate compliance with AQ-23. The owner/operator shall also test the gas turbine while it is operating at minimum load. If three consecutive biennial source tests demonstrate that the annual	The results and field data collected during source tests shall be submitted to the District and CPM within 60 days of testing and according to a preapproved protocol (AQ-29).	Within 60 days of initial source testing	6/30/13	KIEWIT			
OPS	AQ-30b	Testing for toxic air contaminant emissions shall be conducted upon initial operation and at least once every 24 months.	The results and field data collected during source tests shall be submitted to the District and CPM within 60 days of testing	with in 60 days of test every 24 months thereafter	As required	GenOn			
OPS	AQ-31	Calculate the sulfuric acid mist (SAM) emission rate using the total heat input for the sources and the highest results of any source testing conducted pursuant to AQ-32. If this SAM mass	Make the site available for inspection by representatives of the District, ARB and the Commission to verify the calculation and recordkeeping system is properly installed	As Required & Quarterly	30 days after end of quarter	GenOn			
COMM	AQ-32a	Conduct a District-approved source test on two of the four exhaust points while each gas turbine is operating at maximum heat input rates to demonstrate compliance with the SAM emission rates specified in AQ-33. Test for (as a minimum) SO2, SO3, and H2SO4. Submit the source test results to the District and the CEC CPM within 60	Submit the results and field data collected during source tests to the District and CPM within 60 days of testing and according to a preapproved protocol (AQ-29).	Within 60 days of initial source testing and	6/30/13	KIEWIT			
OPS	AQ-32b	Testing for steady-state emissions shall be conducted upon initial operation and at least once every 12 months	Submit the results and field data collected during source tests to the District and CPM within 60 days of testing and according to a preapproved protocol (AQ-29).	with in 60 days of test every 12 months thereafter	As required	GenOn			

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OPS	AQ-33	Do not allow sulfuric acid emissions (SAM) from stacks combined to exceed seven tons in any consecutive 12 month period	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report (AQSC8).	Quarterly	30 days after end of quarter	GenOn			
CONS	AQ-34	Ensure that the stack height of emission points are each at least 165 feet above grade level at the stack base	Make the site available for inspection by representatives of the District, ARB and the Commission	As Required	As required	KIEWIT			
OPS	AQ-35	Submit all reports (including, but not limited to monthly CEM reports, monitor breakdown reports, emission excess reports, equipment breakdown reports, etc.) as required by District Rules or Regulations and in accordance with all procedures and time limits specified in the Rule, Regulation, Manual of Procedures, or Enforcement Division Policies & Procedures Manual	Ensure that notifications and reports, including the quarterly operation report (AQ-SC8), are prepared and submitted in compliance with this condition	As Required	As required	GenOn			
OPS	AQ-36	Maintain all records and reports on site for a minimum of five years. These records shall include but are not limited to: continuous monitoring records (firing hours, fuel flows, emission rates, monitor excesses, breakdowns, etc.), source test and analytical records, natural gas sulfur content analysis results, emission calculation records, records of plant upsets and related incidents. The owner/operator shall make all records and reports available to District and the CEC CPM staff upon request.	Make the site available for inspection by representatives of the District, ARB and the Commission.	As Required	As required	GenOn			

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OPS	AQ-37	notify the District and the CEC CPM of any violations of these permit conditions. Notification shall be submitted in a timely manner, in accordance with all applicable District Rules, Regulations, and the Manual of Procedures. Notwithstanding the notification and reporting requirements given in any District Rule, Regulation, or the Manual of Procedures, the	A summary of significant operation and maintenance events and monitoring records required shall be included in the quarterly operation report.	Quarterly	30 days after end of quarter	GenOn			
CONS	AQ-38	Provide adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall comply with the District Manual of Procedures, Volume IV, Source Test Policy and Procedures, and shall be subject to BAAQMD review and approval, except that the facility shall provide four sampling ports that are at least 6 inches in diameter in the same plane of each gas turbine stack.	The project owner shall make the site available for inspection by representatives of the District, ARB and the Commission.	As Required	As required	KIEWIT			
OPS	AQ-40	Ensure that the MLGS complies with the continuous emission monitoring requirements of 40 CFR Part 75	Submit to the CPM and District the results of audits of the monitoring system demonstrating compliance with this condition as part of the quarterly operation report.	Quarterly	30 days after end of quarter	GenOn			

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CONS	BIO-2	Ensure that the DB performs the specified 1. through 9. of the condition during any site (or related facilities) mobilization, ground disturbance, grading, construction, operation, and closure activities. The DB may be assisted by the approved Biological Monitor(s), but remains the contact for the project owner and CPM.	Designated Biologist must maintain written records of the tasks described in condition and provide summaries for inclusion in the MCR.	Monthly	Include in the MCR	BIOLOGIST			
CONS	BIO-3	Construction/Operation Manager shall act on the advice of the DB to ensure conformance with the biological resources Conditions of Certification. If required by the DB, Construction/ Operation Manager shall halt all activities in areas specified by the DB. The Designated Biologist shall follow the process 1. through 3 in the condition if construction is	Designated Biologist must notify the CPM immediately of any non-compliance activity or halt of any site mobilization, ground disturbance, grading, construction, and ops activities.	As Required	As required	BIOLOGIST			
CONS	BIO-4b	Report the number of persons who have completed the training in the prior month and a running total of all persons who have completed the training to date.	Include a running total in MCR.	Monthly	Include in the MCR	KIEWIT			
OPS	BIO-4d	Keep signed WEAP statements in project files.	During project operation, signed statements for active project operational personnel shall be kept on file for six months following the termination of an individual's employment.	As required	As required	GenOn			
CONS	BIO-5b	Revise or supplement the BRMIMP to reflect any BIO permit conditions received after the original BRMIMP is accepted.	Submit any bio permits not yet received when the BRMIMP is first submitted to the CPM and HTAC	Within 5 days of receipt	As required	BIOLOGIST			
CONS	BIO-5c	Any changes to the approved BRMIMP must also be approved by the CPM and submitted to the HTAC to ensure no conflicts exist.	Notify the CPM before implementing any modifications to the approved BRMIMP	Within 5 days	As required	BIOLOGIST			
CONS	BIO-5d	Implementation of BRMIMP measures will be reported in the MCR by the DB.	Provide report for inclusion in MCR.	Monthly	Include in MCR	BIOLOGIST			

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CONS	BIO-5e	Prepare a written construction closure report identifying which items of the BRMIMP have been completed, a summary of all modifications	Provide construction closure report to the CPM for review and approval.	Within 30 days after completion of construction	5/1/13	BIOLOGIST			
CONS	BIO-6a	Implement measures set forth in condition in a manner to avoid or minimize impacts to the local	Provide report for inclusion in MCR.	Monthly	Include in the MCR	BIOLOGIST			
CONS	BIO-6b	Submit a written construction termination report identifying how bio mitigation measures have been completed.	Provide construction termination report to the CPM for review and approval. Provide additional copies to the CDFG and USFWS.	Within 30 days after completion of construction	5/1/13	BIOLOGIST			
OPS	BIO-8	Provide an annual Payment to Friends of San Pablo Bay. The First Annual Payment shall be at least equal to $2,693.00 + $20,000 payment of	Provide written verification to the CPM, USFWS, and CDFG that first annual payment was made. Thereafter within 30	30 days after the start of project operation	5/31/13	GenOn			
CONS	CIV-2	RE shall stop all earthwork and construction in the affected areas when the responsible soils, geotechnical, or civil engineer experienced and knowledgeable in the practice of soils	Notify the CPM within 24 hours when earthwork and construction are stopped as a result of unforeseen adverse geological conditions. Within 24 hours of the CBO's	Within 24 hours of construction halt due to geologic conditions	As required	KIEWIT			
CONS	CIV-3	Perform inspections in accordance with this condition (see codes referenced). If work is not being performed in accordance with approved plans, the discrepancies shall be reported	RE shall transport to the CBO and CPM a NCR and the proposed corrective action for review and approval. Within 5 days of resolution, EPC must submit details of	Within 5 days of discovery of any discrepancies	As required	KIEWIT	9/2/2011 9/13/2011 9/23/2011		9/2/2011 Submitted NCT-001, 9/13/2011 Submitted NCR-2,3,4 9/23/2011 Submitted
CONS	CIV-4	After completion of finished grading and erosion and sedimentation control and drainage facilities, the Project Owner shall obtain the CBO's approval of the final "as-graded" grading plans and final "as-built" plans for the erosion and sedimentation control facilities.	Submit to the CBO for review and approval the final grading plans (including final changes) and the responsible civil engineer's signed statement that the installation of the facilities and all erosion control measures were completed in	Within 30 days of completion of work	5/1/13	KIEWIT			
CONS	CUL-1b	Submit the resume of the proposed new CRS to the CPM for review and approval. Also provide the new CRS with copies of the AFC, data responses, confidential reports, and maps and drawings showing the footprint of the power plant and all linear facilities.	Provide the required written documentation to the CPM.	At least 10 days prior to a termination or release of the CRS or within 10 days after the	As required	GenOn			
CONS	CUL-1d	Submit the resumes of the technical specialists to the CPM for review and approval.	Provide the required written documentation to the CPM.	At least 10 days prior to technical specialists beginning new tasks	As required	CULTURAL SPECIALIST			
CONS	CUL-2b	Provide to the CRS and CPM a schedule of project activities for the following week, including the identification of area(s) where ground		Weekly during construction	Weekly	KIEWIT			
CONS	CUL-4a	If any archaeological monitoring or data recovery activities are conducted during project construction, submit a final Cultural Resources	Provide the required written documentation to the CPM for review and approval.	Within 90 days after completion of landscaping	6/30/13	CULTURAL SPECIALIST			

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CONS	CUL-4b	If cultural materials requiring curation were collected, provide to the CPM a copy of an agreementor other written commitment form.	Provide the required written documentation to the CPM.	Within 90 days after completion of landscaping	6/30/13	CULTURAL SPECIALIST			
CONS	CUL-4c	Provide documentation to the CPM confirming that copies of the final CRR have been provided to the SHPO, the CHRIS, the curating institution, if archaeological materials were collected, and to	Provide the required written documentation to the CPM.	Within 10 days after CPM approval of CRR	CEC Dependant	CULTURAL SPECIALIST			
CONS	CUL-4d	If the project is suspended, submit a draft CRR to the CPM for review and approval.	Provide the required written documentation to the CPM for review and approval.	Within 30 days after requesting a suspension	As required	CULTURAL SPECIALIST			
CONS	CUL-5b	Provde the WEAP Training Acknowledgement forms of workers who have completed the training in the prior month and a running total of all persons who have completed training to date.	Include a running total in MCR.	Monthly	Include in the MCR	KIEWIT			
CONS	CUL-6a	Ensure that CRS, alternate CRS or CRMs monitor full time all ground disturbances at project site along the linear facilites routes, and	As long as no cultural resources are found, Provide daily a statement that "no cultural resources over 50 years of age were	Daily	Daily	CULTURAL SPECIALIST			
CONS	CUL-6b	Submit monthly monitoring summary reports of cultural resources related monitoring, created by the CRS as required by the condition.	Include in each MCR a copy of the monthly summary report of cultural resources-related monitoring prepared by the CRS and attach any new DPR 523 A forms completed	Monthly	Include in the MCR	CULTURAL SPECIALIST			
CONS	CUL-6c	Notify CEC prior to changing or eliminatinating monitoring.	Provide letter or email to CPM for review and approval detailing justification for changing or eliminating monitoring.	At least 24 hours prior to changing level	As required	CULTURAL SPECIALIST			
CONS	CUL-6d	A Native American monitor shall be obtained to monitor ground disturbance in areas and at depths, if any, where the CUL-1 geoarchaeological study identified the potential for buried prehistoric archaeological deposits	Provide the required written documentation to the CPM.	No later than 30 days after discovery	As required	CULTURAL SPECIALIST			

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CONS	CUL-6e	Submit any comments or information provided by Native Americans in response to the project owner's transmittals of information.	Provide the required written documentation to the CPM.	Within 15 days of receipt	As required	GenOn			
CONS	CUL-7b	Ensure the CRS notifies all Native American groups that expressed a desire to be notified in the event of a discovery and complete a DPR 523 forms as specified in the condition	Unless discovery is treated presciptiibley, Submitt completed DPR 523 forms to CPM for review and approval	Within 24 hours of discovery (48 to notify Native American groups)	As required	CULTURAL SPECIALIST			
CONS	CUL-8	If soils must be acquired from a non commercial borrow site, the CRS shall survey the borrow site for cultural resources and record on DPR 523 forms and that are identified and convey the results and recommendation for further action to the CPM	Notify the CRS and CPM as soon as it is known that non commercial borrow site will be used and provide documentation of previous archaeological surveys. If none available site must be surveyed 30 days before any soil borrow activates and submit	At least 30 days prior to and non commercial site borrow activities	As required	CULTURAL SPECIALIST			
CONS	ELEC-1	Prior to the start of any increment of electrical construction for electrical equipment and systems 480 volts and higher, with the exception of underground duct work and any physical layout drawings and drawings not related to code compliance and life safety, submit for CBO design review and approval the proposed final	Submit to the CBO for design review and approval the items listed in this condition	At least 30 days prior to start of construction of each increment of electrical construction	As required	KIEWIT			
CONS	GEN-1	Design, construct, and inspect the project in accordance with the codes listed in the condition.	The project owner shall submit to the CPM and the CBO a statement of verification, signed by the responsible design engineer, attesting that all designs, construction,	Five (5) days prior to requesting the issuance of the certificate of	3/1/13	KIEWIT			
CONS	GEN-2b	Furnish the CPM and the CBO with an updated schedule of facility design submittals	Provide schedule updates in the monthly compliance report	Monthly	Include in the MCR	KIEWIT			
CONS	GEN-3	Make payments to the CBO for design review, plan check and construction inspections based upon a reasonable fee schedule to be negotiated between NCPA and the CBO.	Send copy of CBO's receipt of payment to CPM in next MCR indicating applicable fees have been paid.	Monthly	Include in the MCR	GenOn			
CONS	GEN-7	If any discrepancy in design and/or construction is discovered in any engineering work that has undergone CBO design review and approval, the project owner shall document the discrepancy and recommend required corrective actions.	Transmit a copy of the CBO's approval of any corrective action taken to resolve a discrepancy to the CPM in the next monthly compliance report. If any corrective action is disapproved, the project owner shall advise the CPM, within five days, of the	Monthly	Include in the MCR	KIEWIT			
CONS	GEN-8	Obtain the CBO's final approval of all completed work that has undergone CBO design review and approval. Request the CBO to inspect the	Submit to the CBO, with a copy to the CPM, in the next monthly compliance report, (a) a written notice that the completed work is	Within 15 days of completion of any work	As required	KIEWIT			
OPS	HAZ-1	Do not use any hazardous material in any quantity or strength not listed in Appendix B unless approved in advance by the CEC CPM.	Provide to the CPM, in the Annual Compliance Report, a list of hazardous materials contained at the facility.	Annually	Include in the ACR	K&M			

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CONS	HAZ-2	Concurrently provide and updated Business Plan, and updated Spill Prevention Control, and Countermeasure Plan, and an updated Risk Management Plan to CCCHSD-HMP) and the	Provide a copy of the final updated Business Plan and Updated SPCC plan to CPM for approval. Provide the final RMP to CCHSD-HMP and the CCFPD for	At least 30 days prior to receiving any hazardous material on site	1/1/13	GenOn			
CONS	HAZ-3	Develop and implement a Safety Management Plan (SMP) for the delivery of aqueous ammonia and other liquid hazmat by tanker truck.	Submit the plan to the CPM for review and approval.	At least 30 days prior to delivery of any hazardous material to the facility	1/1/13	GenOn			
CONS	HAZ-4	Design ammonia storage facility to either ASME Pressure Vessel Code and ANSI K61.6 or to API 620. Tans shall be protected by a secondary containment basin capable of holding 125% of the storage volume	Submit final design drawings and specifications for the ammonia storage tank and secondary containment basin to the CPM for review and approval	At least 60 days prior to delivery of aqueous ammonia	12/2/12	GenOn - Tank Kiewit-Secondary containment			
CONS	HAZ-5	Direct all vendors delivering aqueous ammonia to the site to use only tanker truck transport vehicles that meet or exceed the specifications of DOT Code MC-307.	Submit copies of notification letter to supply vendors indicating the transport vehicle specs to the CPM for review and approval.	At least 30 days prior to reciept of aqueous ammonia on site	1/31/13	GenOn			
CONS	HAZ-6	Direct all vendors delivering any hazardous material to the site to use only the route approved by the CPM.Obtain approval of the CPM if an alternate route is desired.	Submit copies of the required transportation route limitation direction to the CPM for review and approval.	At least 60 days prior to reciept of any hazardous material on site	1/1/13	GenOn			
CONS	HAZ-8a	Prepare a site-specific security plan for the commissioning and operational phases which addresses all the items in the Condition.	Notify the CPM that a site-specific operations site security plan is available for review and approval.	At least 30 days prior to reciept of hazardous materials on site	1/31/13	GenOn			
OPS	HAZ-8b	Include a statement that all current project employee and appropriate contractor background investigations have been performed, and that	Provide information for inclusion in annual compliance report.	Annually	Include in the ACR	K&M			
CONS	MECH-1a	MAJOR PIPING & PLUMBING SYSTEMS: Submit for CBO design review and approval the proposed final design, specifications and calculations for each plant major piping and plumbing system listed in the CBO approved master drawing and master specification list	Submit to the CBO for design review and approval the final plans, specs, and calcs for each major plant piping and plumbing system listed in Facility Design Table 2. including a copy of the signed and stamped statement from the responsible mechanical	At least 30 days prior to the start of any piping or plumbing construction	As required	KIEWIT			

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CONS	MECH-1b	Upon completion of construction of any such major piping or plumbing system, the project owner shall request the CBO's inspection approval of that construction.	Provide the required written documentation to the CPM.	Monthly	Include in the MCR	KIEWIT			
CONS	MECH-2a	PRESSURE VESSELS: Submit for CBO design review and approval the proposed final design, specifications and calculations for each plant pressure vessel listed in the CBO approved master drawing and master specification list.	Submit to the CBO for design review and approval the final plans, specs, and calcs, including a copy of the signed and stamped statement from the responsible mechanical engineer certifying compliance with LORS	At least 30 days prior to start of onsite fabrication or installation of any pressure vessel	As required	KIEWIT			
CONS	MECH-2b	Upon completion of construction of pressure vessels, the project owner shall request the CBO's inspection approval of that construction.	Provide the required written documentation to the CPM.	Monthly	Include in the MCR	KIEWIT			
CONS	MECH-3	HVAC SYSTEMS: Submit for CBO design review and approval the proposed final design, specifications and calculations for each HVAC system listed in the CBO approved master drawing and master specification list.	Submit the calcs, plans, and specs to the CBO, including a copy of the signed and stamped statement from the responsible mech engr certifying compliance with CBC and other applicable codes, with a copy of transmittal to CPM.	At least 30 days prior to start of construction of any HVAC or refrig system	As required	KIEWIT			
CONS	NOISE-2	Throughout the construction and operation of the project, document, investigate, evaluate, and attempt to resolve all project-related noise complaints. Noise Complaint Resolution process will be used.	File a Noise Complaint Resolution Form with the City and the CPM documenting resolution of the compliant.	Within 5 days of receiving a noise compliant	As required	K&G	2/4/11		Received noise complaint 1/31/2011. Submitted form to
COMM	NOISE-4a	Project design will include noise mitigation measures to ensure that noise levels due to operation of the project alone will not exceed an hourly average of 54 dBA at or near LT-1 and 45	Conduct a community noise survey at monitoring location LT-1, LT-2, or at a closer location acceptable to the CPM. This survey during the power plant's full-load	Within 30 days of project's first achieving a sustained output of	5/31/13	KIEWIT			
COMM	NOISE-4b	Submit a summary report of the survey to the CPM. Included in the survey report shall be a description of any additional mitigation measures necessary to achieve compliance with the above	Submit required info to the CPM.	Within 15 days after completing noise survey	6/15/13	KIEWIT			

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COMM	NOISE-5	Conduct an occupational noise survey to identify the noise hazardous areas in the facility when plant reaches 85% of rated capacity or greater	Prepare a report of the survey results and, if necessary, identify proposed mitigation measures that will be employed to comply with the applicable California and federal regulations.	Within 30 days after completing survey	6/30/13	KIEWIT			
CONS	PAL-5	Ensure that the PRS and PRM(s) monitor consistently with the PRMMP, all construction-related grading, excavation, trenching, and auguring in areas where potentially fossil-bearing materials have been identified.	Paleo monitors shall provide monthly summaries for inclusion in MCR.	Monthly	Include in the MCR	PRS			
CONS	PAL-6	Through the designated PRS, ensure that all components of the PRMMP are adequately performed (see list of activities included in Condition).	Maintain in compliance file copies of signed contracts or agreements with the designated PRS and other qualified research specialists. Maintain these files for a period of three years after completion and approval of the CPM-approved PRR required bu PAL-07.	As required	As required	PRS			
CONS	PAL-7	Ensure preparation of a Paleontological Resources Report (PRR) by the designated PRS to be completed following completion of ground disturbing activities.	Submit the PRR under confidential cover to the CPM.	Within 90 days after completion of ground disturbing activities	6/30/13	PRS			
CONS	Soil & Water-2c	Monitor and Maintain effective drainage, erosion and sediment control measures during construction	Provide Analysis of effectiveness of drainage, erosion and sediment control measures and the results of monitoring and maintain activities in MCR	Monthly	Include in the MCR	KIEWIT			
CONS	Soil & Water-3	If groundwater is encountered during construction or operation: comply with the requirements of the CVRWQCB Order NO. R5-2008-0081 for Waste Discharge Requirements for Dewatering and Other Low threat Discharges	Submit a complete Notice of Intent (NOI) to obtain coverage under CVRWQCB Order No. R5-2008-0081. Submit copies to the CPM of all correspondence between the project owner and the CVRWQCB regarding	Prior to any groundwater discharge or dewatering activities	As required	KIEWIT			

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CONS	Soil & Water-4	Comply with the requirements of the General National Pollutant Discharge Elimination System (NPDES) Permit for Discharges of Storm Water Associated with Industrial Activity (WQO 97-03-DWQ).	Develop andsubmit an Industrial SWPPP for the operation of the MLGS. Submit copies to the CPM of all correspondence between the project owner and the Central Valley Regional Water Quality Control Board regarding the industrial SWPPP within 10	Prior to commercial ops	5/1/13	GenOn			
CONS	Soil & Water-5a	Provide 2 copies of the executed Waste Water Discharge Agreement with DDSD for the long term discharge of all watewater streams for the MLGS to DDSD wastewater treatment facilites. Shall specify Peak dischage rate of 118 gpm. Do not connect to City of Antioch's wastewater pipline along Wilbur Ave w/o the final agreement in place and submitted to CPM	Submit 2 copies of the of the executed agreement for the discharge of wastewater form the MLGS	No later than 60 days prior to connection the DDSD wastewater pipline	9/1/11	GenOn			
OPS	Soil & Water-5b	During operation an monitoring reports providied to DDSD shall also be provided to the CPM.	Submit any wasterwater quality monitoring reports required by DDSD, and a full explanation of corrective actions taken if a violation occurs to the CPM in the annual compliance report	Annually	Include in the ACR	GenOn			
OPS	Soil & Water-5c	Notify the CPM of any violations of discharge limits	Submit any notice of violations from DDSD to the CPM and fully explain the corrective actions taken in the annual compliance report	Within 10 days of of receipt of violation	As required	GenOn			
CONS	Soil & Water-6a	Install and Maintain metering devices as part of the water supply and distribution system to monitor and record in gallons per the volume of ground water and potable water supplied to the MLGS.	Submit Evidence to the CPM that metering devices have been installed and are operational on groundwater wells, potable eater and recycled water (if applicable) pipelines serving the project.	At least 60 days prior to use of any water source for operation	1/1/13	KIEWIT			
OPS	Soil & Water-6b	Monitor and track the water use by operating the water metering devices for the life of the project. Differentiate between groundwater, potable	Provide (1)a report on the service testing and calibration of the metering devices, (2)a water use summary report which is based	Annually	Include in the ACR	GenOn			
OPS	Soil & Water-6e	If Primary Alternative water source (City of Antioch Water) is being used in operation, Pay an annual fee of $1,000/ AF of City of Antioch Water consumed annually	Calculate the annual use payment at the rate of $1,000/ AF of fresh water reported annual in in the ACR. Pay the amount confirmed by the CPM	No later than 60 days following the approval of the ACR	As required	GenOn			
CONS	STRUC-1a	Prior to the start of any increment of construction, submit to the CBO for design review and approval the proposed lateral force procedures for project structures and equipment identified in the CBO-approved master drawing and master specification list. Must include items within this condiditon	Construction of any structure or component shall not begin until the CBO has approved the lateral force procedures to be employed in designing that structure or component. Submit to the CBO the final design plans, specs and calcs with a copy of the transmittal letter to the CPM.	At least 60 days prior to start of any structure or component listed in Facility Design Table 2 of GEN-2	As required	KIEWIT			

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CONS	STRUC-1b	Submit to the CPM a copy of a statement from the CBO that the proposed structural plans, specifications, and calculations have been approved and comply with the requirements set forth in applicable engineering LORS.	Submit required info to the CPM.	Monthly	Include in the MCR	KIEWIT			
CONS	STRUC-2	Submit to the CBO the required number of sets of the documents related to work that has undergone CBO design review and approval related to concrete cylinder strength test reports and pour sign-off sheets, bolt torque and field weld inspection reports, and other reports covering structural activities requiring special	If discrepancies are found, within 5 days the Project Owner shall prepare and submit an NCR to the CBO with a copy of the transmittal letter to the CPM. Within 5 days of resolution, the Project Owner shall submit a copy of the correction action to the CBO and CPM. The CBO's approval or	As required	As required	KIEWIT			
CONS	STRUC-3	Submit to the CBO design changes to the final plans required by the CBC, including the revised drawings, specifications, calculations, and a complete description of, and supporting rationale	Notify the CBO of the intended filing of design changes, and notify the CPM in the MCR of the CBO's approval of the revised plans.	Monthly	Include in the MCR	KIEWIT			
CONS	STRUC-4	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts specified in the 2007 CBC shall, at a minimum, be designed to comply with the requirements of that chapter.	Submit to the CBO for design review and approval the final plans, specs, and calcs, including a copy of the signed and stamped statement from the responsible engineer certifying compliance with LORS	At least 30 days prior to the start of installation of the tanks or vessels	As required	GenOn - Ammonia Tank KIEWIT - All Other			
CONS	TLSN-1	Construct the proposed transmission line according to the requirements of California Public Utility Commission's GO-95, GO-52, GO-131-D, Title 8, and Group 2, High Voltage Electrical Safety Orders, Sections 2700 through 2974 of the California Code of Regulations, and Pacific Gas and Electric's EMF-reduction	Submit to the CPM a letter signed by a CA registered EE affirming that the line will be constructed according to the requirements set forth in the Condition.	At least 30 days prior to starting construction of proposed new lines	12/2/11	KIEWIT			
CONS	TLSN-2	Every reasonable effort will be made to identify and correct, on a case-specific basis, any complaints of interference with radio or TV signals from operation of the proposed line and	Submit to the CPM a letter signed by a CA registered EE affirming the project owners intention to comply with this requirment.	At least 30 days before starting operation of either line option	11/1/12	KIEWIT			

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CONS	TLSN-3	Use a qualified individual to measure the strengths of the electric and magnetic fields from the line at the points of maximum intensity along the proposed route. The measurements shall be made before and after energization according to ANSI/IEEE standard procedures. These measurements shall be completed not later than six months after the start of operations.	File copies of the pre-and post-energization measurements with the CPM.	Within 60 days after completion of measurements	10/28/13	KIEWIT			
CONS	TLSN-4	Ensure that the rights-of-way of the proposed transmission line are kept free of combustible material, as required under the provisions of Section 4292 of the Public Resources Code and Section 1250 of Title 14 of the California Code of Regulations.	Transmit to the CPM a letter affirming the intention to comply with this condition.	At least 30 days before the start of operations	4/1/13	GenOn			
CONS	TLSN-5	Ensure that all permanent metallic objects within the right-of-way of the project-related lines are grounded according to industry standards regardless of ownership.	Transmit to the CPM a letter confirming compliance with this condition.	At least 30 days before lines are energized	11/1/12	KIEWIT			
CONS	TRANS-2b	Restore any area of Wilbur Ave that were damaged during construction to their original condition.	Provide photo/ videotape documentation to the CCCPW and the City of Antioch Engineering Department and the CPM that any damaged areas have been restored.	Within 90 days following the completion of construction	6/30/13	KIEWIT			
CONS	TSE-1	Provide the CPM and CBO with a schedule of transmission facility design submittals, a master drawing list, a master specifications list, and a major equipment and structure list as indicated in the condition.	Provide info to CBO and CPM.	At least 60 days prior to start of transmission line construction.	11/2/11	KIEWIT			
CONS	TSE-3	If any discrepancy in design and/or construction is discovered in any engineering work that has undergone CBO design review and approval, the project owner shall document the discrepancy and recommend corrective action. The discrepancy documentation shall become a controlled document and shall be submitted to the CBO for review and approval and refer to this condition of certification.	Submit a copy of the CBO's approval or disapproval of any corrective action taken to resolve a discrepancy to the CPM.	Within 15 days of receipt	As required	KIEWIT			
CONS	TSE-4	For the power plant switchyard, outlet line and termination, construction shall not begin until plans for that increment of construction have been approved by the CBO. These plans	Submit to the CBO for review and approval the final design plans, specifications and calculations	Before the start of each increment of construction	As required	K&G			

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CONS	TSE-5a	Design, construct, and operate the proposed transmission facilitiesin in conformance with all applicable LORS, and the requirements listed in the condition	Submit to the CBO: a) Design drawings, specifications, and calculations conforming with CPUC General Order 95 or National Electric Safety Code (NESC); Title 8 of the	Prior to start to start of construction of the transmission	1/1/12	KIEWIT			
CONS	TSE-5b	Provide electrical one-line diagrams signed and sealed by the registered professional electrical engineer in charge, a route map, and an engineering description of the equipment and configurations covered by requirements TSE-5 a) through j),	b) For each element of the transmission facilities identified above, the submittal package to the CBO shall contain the design criteria, a discussion of the calculation method(s), a sample calculation based on "worst case conditions"1 and a statement signed and sealed by the registered engineer in responsible charge, or other acceptable alternative verification, that the transmission element(s) will conform with CPUC General Order 95 or National Electric Safety Code (NESC); Title 8 of the California Code and Regulations (Title 8); Articles 35, 36 and 37 of the *High Voltage Electric Safety Orders*, California ISO standards, National Electric Code (NEC), and related industry standards;	Prior to start to start of construction of the transmission facilities	1/1/12	KIEWIT			
CONS	TSE-5c	Provide the final Detailed Facility Study (DFS) including a description of facility upgrades, operational mitigation measures, and/or special protection system sequencing and timing if applicable.	c) Electrical one-line diagrams signed and sealed by the registered professional electrical engineer in charge, a route map, and an engineering description of the equipment and configurations covered by	Prior to start to start of construction of the transmission facilities	1/1/12	KIEWIT			
CONS	TSE-5d	Provide the executed project owner and California ISO facility interconnection agreement.	d) The Special Protection System (SPS) sequencing and timing if applicable shall be provided concurrently to the CPM.	Prior to start to start of construction of the transmission facilities	1/1/12	GenOn			
CONS	TSE-5e	Provide evidence showing coordination with the affected agencies and utilities including but not limited to Western Area Power Administration and Lodi Electric Utility.	e) A letter stating that the mitigation measures or projects selected by the transmission owners for each reliability criteria violation, for which the project is responsible, are acceptable.	Prior to start to start of construction of the transmission facilities	1/1/12	GenOn			
CONS	TSE-5f	Inform the CPM and CBO of any impending changes which may not conform to the requirements of TSE-05 and request approval to implement such changes.	f) The final Phase II Interconnection Study, including a description of facility upgrades, operational mitigation measures, and/or special protection system sequencing and timing if applicable, and.	Prior to start to start of construction of the transmission facilities	1/1/12	GenOn			

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CONS	TSE-5g	Provide a copy of the executed LGIA signed by the California ISO and the Project Owner.	g) A copy of the executed LGIA signed by the California ISO and the project owner. Prior to the start of construction of or modification of transmission facilities, the project owner shall inform the CBO and the	Prior to start to start of construction of the transmission facilities	1/1/12	GenOn			
CONS	TSE-5h	Inform the CPM and CBO of any impending changes which may not conform to the requirements of TSE-05 and request approval to implement such changes.	Inform the CBO and CPM of any impending changes.	Prior to start to start of construction of the transmission facilities	1/1/12	KIEWIT			
CONS	TSE-6	Provide notice to the Cal-ISO prior to synchronizing the facility with the California transmission system:	Provide notice to the Cal-ISO prior to synchronizing the facility with the California transmission system:	One week prior to initial synchronization w/ the grid	11/24/12	GenOn			
CONS	TSE-7	Inspect the transmission facilities during and after project construction, and for any subsequent CPM- and CBO-approved changes, to ensure conformance with CPUC General Order 95 or National Electric Safety Code (NESC); Title 8 of the California Code and Regulations (Title 8); Articles 35, 36 and 37 of the High Voltage Electric Safety Orders, California ISO standards, National Electric Code (NEC) and related industry standards.	Transmit to the CPM and CBO: "As built" engineering description(s) and one-line drawings of the electrical portion of the facilities signed and sealed by the registered electrical engineer in charge; a statement verifying conformity with the standards set forth in Condition; "as built" engineering description of the mechanical, structural, and civil portion of the transmission facilities signed and sealed by the registered engineer in charge or an acceptable alternative verification; and a summary of inspections of the completed transmission facilities, and identification of any nonconforming work and corrective actions taken, signed and sealed by the registered engineer in charge.	Within 60 days after first synchronization to the grid	3/1/12	KIEWIT			
CONS	VIS-1b	Treat the surfaces of all project structures and buildings visible to the public as specified in the condition.	Notify the CPM that the surface treatment of all listed structures and buildings has been completed and is ready for inspection and submit electronic color photographs taken from the same KOPs.	Prior to start of commerical operation	5/1/13	KIEWIT			

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OPS	VIS-1c	Ensure proper treatment maintenance for the life of the project.	Provide a status report regarding surface treatment maintenance in the ACR which specifies the items in the condition	Annually	Include in the ACR	GenOn			
CONS	VIS-2a	Develop a landscaping plan which would Provide landscaping that reduces the visibility of the power plant structures and complies with local policies and ordinances	Submit landscaping plan to the CPM for review and approval and simultaneously to CCC for review and comment.	At least 90 days prior to installation	1/1/13	GenOn			
CONS	VIS-2b	Provide landscaping that reduces the visibility of the power plant structures and complies with local policies and ordinances.	Simultaneously notify the CPM and CCC after the completion of the landscaping that the site is ready for inspection.	Within 7 days after completing landscaping	2/1/13	GenOn			
OPS	VIS-2c	Maintain landscaping, including any needed irrigationa nd annual or semi annual debris removal for the life of the project	Report landscaping maintence activites, including replacement of dead or dying vegetation for the previous year of operation in the ACR	Annually	Include in the ACR	GenOn			
CONS	VIS-3a	Design and install all permanent exterior lighting such that (a) lamps and reflectors are not visible from beyond the project site, including any off-site security buffer areas; (b) lighting does not cause excessive reflected glare; (c) direct lighting does not illuminate the nighttime sky; (d) illumination of the project and its immediate vicinity is minimized, and (e) the plan complies with local policies and ordinances.	Contact the CPM to discuss the documentation required in the lighting mitigation plan. The project owner shall not order any exterior lighting until receiving CPM approval of the lighting mitigation plan.	At least 90 days prior to ordering any permanent exterior lighting	2/1/13	KIEWIT			
CONS	VIS-3b	Prepare a lighting mitigation plan that includes the specific info set forth in the condition.	Submit to the CPM for review and approval and simultaneously to the Contra Costa County for review and comment a lighting mitigation plan.	At least 60 days prior to ordering any permanent exterior lighting	3/1/13	KIEWIT			

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CONS	VIS-3c	Notify the CPM that the permanent exterior lighting has been completed and is ready for inspection.	Set up an inspection appointment.	Prior to start of commercial operation	4/1/13	KIEWIT			
CONS	VIS-3d	Notify the CPM of any complaints re: lighting.	Submit a complaint resolution form to the CPM record each lighting complaint and document resolution of that complaint.	Within 48 hours after receiving a complaint	As required	KIEWIT-During Construction GenOn -			
CONS	WASTE-1b	Manage asbestos waste during demolition to comply with BAAQMD regulation 11, rule 2	Provide summary report(s) to the CPM on asbestos waste management via MCR to include items specified w/in the condition	Monthly	Include in the MCR	K&G			
CONS	WASTE-4	If potentially contaminated soil is identified during site characterization, excavation, or grading at either the proposed site or linear facilities, as evidenced by discoloration, odor, detection by handheld instruments, or other signs, the Professional Engineer or Professional Geologist shall inspect the site, determine the need for sampling to confirm the nature and extent of contamination, and provide a written report to the project owner, representatives of DTSC, and the CPM stating the recommended course of action.	Submit any final reports filed by the Professional Engineer or Professional Geologist to the CPM. Project owner must notify the CPM within 24 hours of any orders issued to halt construction.	Within 5 days of their receipt	As required	KIEWIT	4/15/2011 4/26/2011		Oily dirt - East side Oily dirt- Middle of Power Block

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CONS	WASTE-5b	Require all project contractors and subcontractors to adhere to the city's waste diversion requirements and provide to the project owner adequate documentation of the types and volumes of wastes generated, how the wastes were managed, and volumes of wastes diverted	Submit documentation to the city of Antioch, with copies to the CPM, demonstrating compliance with th diversion program requirements. The required documentation shall include a final completed Waste Management Plan (as set forth by the city ordinance) and all necessary receipts or records of measurement from entities	Not later than 30 days after completion of project construction	5/1/13	KIEWIT			
CONS	WASTE-5c	Comply with all applicable provisions of the city of Antioch's Construction and Demolition Debris Recycling Ordinance No. 1018- C-S	Provide documentation to the CPM that the project has satisfactorily complied with the city of Antioch Ordinance No. 1018-C-S	Prior to start of project Operation	5/1/13	KIEWIT			
OPS	WASTE-6b	Obtain a hazardous waste generator identification number from the United States Environmental Protection Agency prior to generating any hazardous waste during operations.	Keep a copy of the identification number on file at the project site and provide the number to the CPM.	At least 30 days prior to commercial operation.	5/31/13	GenOn			
COMM	WASTE-7a	Prepare an Operation Waste Management Plan for all wastes generated during operation of the facility	Submit the plan to the CPM for review and approval. The plan shall contain, at a minimum the items in the condition. submit any required revisions to the CPM within 20 days of notification from the CPM that revisions are necessary.	No less than 30 days prior to the start of project operation	4/1/13	GenOn			
OPS	WASTE-7b	Update the Operation Waste Management Plan as necessary to address current waste generation and management practices.	Document in each ACR 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 Operation	Annually	Include in the ACR	GenOn			
OPS	WASTE-8	Ensure that all spills or releases of hazardous substances, hazardous materials, or hazardous waste are documented and cleaned up and that wastes generated from the release/spill are properly managed and disposed of, in accordance with all applicable federal, state, and	Provided to the CPM unauthorized release/spill documentation	Within 30 days of the date the release was discovered.	As required	K&G			

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OPS	WASTE-9	Notify the CPM of any impending waste management-related enforcement action by any local, state, or federal authority taken or proposed to be taken against the project itself, or against any waste hauler or disposal facility or treatment operator with which the owner contracts that may be related to management of	Notify the CPM in writing and provide a description and timeline for steps to be taken to address the action.	Within 10 days of becoming aware of an impending enforcement action	As required	K&G			
COMM	WORKER SAFETY-2	Prepare and submit an O&M Safety & Health Plan containing: an IIPP, EAP, HMMP, FPP, and PPE.	The Operations IIPP, EAP, PPE shall be submitted to the CEC CPM for review and comment; the EAP and FPP shall also be submitted to the CCC Fire Protection District for review and comment. Provide a copy of a letter to the CPM from the CCC Fire	At least 30 days prior to first fire or commissioning	1/1/13	GenOn			
CONS	WORKER SAFETY-3b	The CSS shall prepare and submit a monthly safety inspection that includes the info specified in the verification language of the condition.	Submit required info to the CPM.	Monthly	Include in the MCR	KIEWIT			
PC-1	Soil & Water-1a	Coordinate with the Water Board as necessary develop and implement a construction SWPPP	Submit to the CPM copies of all correspondence with the Water Control Board regarding the SWPPP within 10 days of receipt.	No later than 30 days prior to start of site mobilization	12/2/10	KIEWIT	1/5/11		Approved (No Date Given)
PC-1	Soil & Water-1b	Develop and implement a Storm Water Pollution Prevention Plan (construction SWPPP) for the LEC site, laydown areas, and on-site linear facilities. Submit to the CPM a copy of the construction SWPPP. Info should include a copy of the Notice of Intent for Compliance with the General NPDES permit	Submit to the CPM a copy of the NOTICE OF INTENT FOR COMPLIANCE with the General NPDES permit.	No later than 60 days prior to site mobilization	11/2/10	KIEWIT	1/5/11		Approved (No Date Given)
PC-1	AQ-SC1	Designate and retain an on-site AQCMM who shall be responsible for directing and documenting compliance with conditions AQ-SC3, AQ-SC4 and AQ-SC5 for the entire project site and linear facility construction. The on-site	Submit to the CPM for approval the name, resume, qualifications, and contact information for the on-site AQCMM and all AQCMM delegates. The AQCMM and all delegates must be approved by the CPM	60 days prior to the start of ground disturbance	11/2/10	GenOn	9/13/10	2010-1172	Approved 9/23/2010
PC-1	AQ-SC2	Provide, for approval, an AQCMP that details the steps to be taken and the reporting requirements necessary to ensure compliance with conditions of certification AQ-SC3, AQ-SC4 and AQ-SC5.	Submit the AQCMP to the CPM for approval. The CPM will notify the project owner of any necessary modifications to the plan within 30 days from the date of receipt. The AQCMP must be approved by the CPM before the start of ground disturbance.	60 days prior to the start of any ground disturbance	11/2/10	GenOn	9/21/10	2010-1220	Approved 10/06/10

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PC-2	AQ-SC7	Provide emission reductions in the form of offsets or emission reduction credits (ERCs) in the quantities of at least 78.83 tons per year (tpy) NOx, 14.23 tpy VOC, 31.57 tpy PM10, and 4.96 tpy SOx emissions. The project owner shall	Submit to the CPM records showing that the project's offset requirements have been met prior to initiating construction. If the CPM approves a substitution or modification to the list of ERCs, the CPM shall file a	Prior to Initiating Construction	3/2/11	GenOn	10/13/10	2010-1361	Approved 10/29/2010
PC-1	BIO-1	Assign a Designated Biologist to the project. The DB must meet the specified qualifications. No site or related facility activities shall commence until an approved Designated Biologist is available to be on site. Adhere to condition specification if the DB needs to be replaced	Submit the resume of the proposed DB, with at least 3 references and contact information, to the (CPM) for approval.	At least 90 days prior to the start of any site (or related facilities) mobilization	10/3/10	GenOn	9/21/10	2010-1221 Returned 10/6/2010	Approved 10/20/2010
PC-1	BIO-4a	Develop and implement a CPM-approved Worker Environmental Awareness Program (WEAP) in which each of its employees, as well as employees of contractors and subcontractors who work on the project site or any related facilities during site mobilization, ground disturbance, grading, construction, operation, and closure are informed about sensitive biological resources associated with the project	Provide to the CPM the proposed WEAP and all supporting written materials and electronic media prepared or reviewed by the DB and a resume of the person(s) administering the program.	60 days prior to the start of any site (or related facilities) mobilization	11/2/10	BIOLOGIST	10/26/2010 Resubmit WEAP Handout 12/21/2010 1/26/2011	2010-1490 2010-1790 12/3/2010	Additional Information Submitted 12/3/2010 WEAP handbook revised 1/24/2011
PC-1	BIO-4c	Deliver copies of final CPM approved WEAP materials to site.	Submit two copies of the CPM approved materials.	At least 10 days prior to site or related facilities mobilization	12/22/10	BIOLOGIST	10/26/10	2010-1490	Additional Information Submitted 12/3/2010 Approved 1/11/2011
PC-1	BIO-5	Prepare the proposed BRMIMP (see BIO-6 for detailed requirements of the BRMIMP).	Submit two copies of the BRMIMP to the CEC CPM for review and approval and to USFWS/CDFG for review and comment	At least 60 days prior to site or related facilities mobilization	11/2/10	BIOLOGIST	10/13/2010 Resub 11/18/2010	21010-1362 11/3/10 2010-1679 11/18/2010	Additional Information Submitted 12/3/2010 Additional copy
PC-2	BIO-7	Conduct migratory bird pre-construction nest surveys as required by condition. If active nests are detected during the survey, the report shall include a map or aerial photo identifying the location of the nest and shall depict the boundaries of the no-disturbance buffer zone	Provide the CPM a letter-report describing the findings of the pre-construction nest surveys, including the time, date, and duration of the survey; identity and qualifications of the surveyor(s); and a list of species observed. Additional copies shall	At least 10 days prior to site or related facilities mobilization	12/22/10	BIOLOGIST	3/8/11		Approved, but ongoing review required.
PC-2	CIV-1a	Submit design of the proposed drainage structures and the grading plan.	Submit documents to the CBO for review and approval.	At least 30 days prior to the start of site grading	3/2/11	KIEWIT	2/19/2011 to CEC and CBO		CBO comments 3/10/11 Approved 3/29/2011

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PC-2	CIV-1b	Submit the erosion and sedimentation control plan.	Submit documents to the CBO for review and approval.	At least 30 days prior to the start of site grading	3/2/11	KIEWIT	2/19/2011 to CEC and CBO		Approved 3/28/2011
PC-2	CIV-1c	Submit the storm water pollution prevention plan (SWPPP).	Submit documents to the CBO for review and approval.	At least 30 days prior to the start of site grading	3/2/11	KIEWIT	2/19/2011 to CEC and CBO		CBO comments 3/10/11 Approved 3/28/2011
PC-2	CIV-1d	Submit related calculations and specifications, signed and stamped by the responsible civil engineer.	Submit documents to the CBO for review and approval.	At least 30 days prior to the start of site grading	3/2/11	KIEWIT	2/19/2011 to CEC and CBO		CBO comments 3/10/11 Approved 3/28/2011
PC-2	CIV-1e	Submit the soils, geotechnical, or foundation investigations reports required by the 2007 CBC.	Submit documents to the CBO for review and approval.	At least 30 days prior to the start of site grading	3/2/11	KIEWIT	2/19/2011 to CEC and CBO		CBO comments 3/10/11 Approved 3/28/2011
PC-1	CUL-1a	Obtain the services of a Cultural Resources Specialist (CRS), and one or more alternate CRSs, if alternates are needed	Submit resumes to the CEC CPM for review and approval.	At least 30 days prior to start of ground disturbance	12/2/10	GenOn	9/29/10	2010-1261 returned 10/4/10	Approved 10/4/2010
PC-1	CUL-1c	Provide a letter naming anticipated CRMs for the project and stating that the identified CRMs meet the minimum qualifications for cultural resources monitoring required by this Condition.	Provide the required written documentation to the CPM.	At least 20 days prior to ground disturbance	12/12/10	GenOn	10/7/2010 8/31/11 9/13/2011	10/12/2010	Approved 10/12/2010 Submitted Ms. Kathleen Kubal
PC-1	CUL-1e	Confirm in writing to the CPM that the approved CRS will be available for onsite work and is prepared to implement cultural resources conditions.	Provide the required written documentation to the CPM.	At least 10 days prior to the start of ground disturbance	12/22/10	GenOn	10/7/10	2010-1261	Approved (No Date Given)
PC-1	CUL-2a	Provide to the CRS, if the CRS has not previously worked on the project, copies of the AFC, data responses, confidential cultural resources reports, all supplements and the SA for the project. Also provide site maps and drawings for cultural resource planning activities	Provide requested into to the CRS.	At least 30 days prior to the start of ground disturbance	12/2/10	GenOn	12/10/10	2010-1831	Approved (No Date Given)

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PC-1	CUL-3a	Submit the Cultural Resources Monitoring and Mitigation Plan (CRMMP), as prepared by the CRS. (See condition for specific requirements.)	Submit the entire CRMMP to the CEC CPM for review and approval.	At least 30 days prior to ground disturbance	12/2/10	CULTURAL SPECIALIST	10/26/2010 Revised 11/2/2010	2010-1485 2010-1566	Approved 1/11/2011
PC-1	CUL-3b	Agree to pay curation fees for any materials collected as a result of the archaeological investigations (survey, testing, data recovery)	Provide the required written documentation to the CPM.	At least 30 days prior to ground disturbance	12/2/10	GenOn	10/26/10	2010-1485	Approved 1/11/2011
PC-1	CUL-5a	The CRS shall prepare a WEAP that addresses all issues specified in Condition and provided training to all new workers within their first week of employment at the project site, laydown areas, and along the linear facilities routes.	Provide the draft text and graphics for the training program to the CPM for review and approval.	At least 30 days prior to ground disturbance	12/2/10	CULTURAL SPECIALIST	10/26/2010 1/26/2011	2010-1362	Approved 12/10/2010 Submitted WEAP training Video 1/26/2010 Final
PC-1	CUL-7a	Grant authority to halt construction to the CRS, alternate CRS and the CRMs in the event previously unknown cultural resource sites or materials are encountered, or if known resources	Provide the CPM and CRS with a letter confirming that the CRS, alternate CRS and CRMs have the authority to halt construction activities in the vicinity of a cultural resource	At least 30 days prior to ground disturbance	12/2/10	GenOn	10/26/10	2010-1487	Approved 1/11/2011
PC-2	GEN-2a	Furnish the CPM and the CBO with a schedule of facility design submittals, and master drawings and master specifications list. The master	Submit to the CBO and to the CPM the schedule, and the master drawings and master specifications list of documents to be	At least 60 days prior to the start of rough grading	1/31/11	KIEWIT	11/19/2010 1/4/11 to the CBO	2010-1726	Approved 12/15/2010
PC-2	GEN-4	Assign a California registered architect, or a structural or civil engineer as the resident engineer (RE) in charge of the project.	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. Notify the CPM of	At least 30 days prior to start of rough grading	3/2/11	KIEWIT	12/3/2010; To CBO 1-26-11	2010-1785	Approved (No Date Given)

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PC-2	GEN-5	Assign at least one of each of the following California registered engineers to the project: a civil engineer; a soils, geotechnical, or civil engineer experienced and knowledgeable in the practice of soils engineering; and an engineering geologist, a design engineer who is either a structural engineer or a civil engineer fully competent and proficient in the design of power plant structures and equipment supports; a mechanical engineer; and an electrical engineer.	Submit to the CBO for review and approval, resumes and registration numbers of the responsible engineers. Notify the CPM of the CBO's approvals of the responsible engineers within five days of the approval.	At least 30 days prior to start of rough grading	3/2/11	KIEWIT	To CBO 1/17/11 To CEC 2/16/2011 6/28/2011 addtnl		CBO Approved 2-16-11 CEC Approved 3/16/2011 Submitted Tharu Nadaraj (Electrical) and Chad Enders (Civil) for approval 6/28/2011 Mr. Nadaraj and Mr. Enders resumes approved 8/12/11 Submitted Gen Amrhein, Chad Enders and Shong Liu for Design Engineer 8/15/2011
PC-2	GEO-1	Specifically include in the Soils and Engineery Report, laboratory test data, associated geotechnical engineering analyses, and a thorough discussion of the potential for liquefaction and associated lateral spread, and dynamic compaction. The report should also	Include in the application for a grading permit a copy of the Soils Engineering Report which address the potential for liquefaction and associated lateral spread; settlement due to compressible soils, dynamic compaction; and the possible	At least 30 days prior to the start of grading	3/2/11	KIEWIT	2/19/2011 to CEC and CBO		Approved 3/28/2011
PC-2	HAZ-7	Prepare a site-specific construction security plan for the construction phase which addresses the items in the Condition.	Notify the CPM that a site-specific construction security plan is available for review and approval.	At least 30 days prior to start of construction	3/2/11	KIEWIT	11/24/10	2010-1731	Approved (No Date Given)
PC-1	NOISE-1	Notify all residents within one mile of the site and one-half mile of the linear facilities, by mail or other effective means, of the commencement of project construction. Establish a telephone number for use by the public to report any undesirable noise conditions associated with the construction and operation of the project and include that telephone number in the above notice. The telephone number shall be posted at the project site during construction in a manner visible to passersby and maintained until project has been operational for one year.	Transmit to the CPM a statement, signed by the project owner's project manager, stating that the above notification has been performed and describing the method of that notification, verifying that the telephone number has been established and posted at the site, and giving that telephone number.	At least 15 days prior to the start of ground disturbance	12/17/10	GenOn	12/14/10	2010-1903	Approved (No Date Given)
PC-1	NOISE-3	Submit a noise control program and statement signed by project manager verifying that noise control program will be implemented throughout construction of the project. The noise control	Submit a noise control program and project manager's verification letter to the CEC CPM for review and approval.	At least 30 days prior to ground disturbance	12/2/10	KIEWIT	11/19/10	2010-1727	Approved 12/15/2010

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PC-1	NOISE-6	Heavy equipment operation and noisy construction work relating to any project features, including pile driving, shall be restricted to the times delineated below, unless a waiver has been issued by the City of Antioch for alternative	Transmit to the CPM a statement, signed by the project owner's project manager, acknowledging that the above restriction will be observed throughout the the constucito of the project. If waiver is issued by the city	Prior to Ground Distrubance	12/2/10	KIEWIT	11/19/2010 5/5/2011 5/19/2011	2010-1728	Approved 12/15/2010 4/22/2011
PC-1	PAL-1a	Provide the CPM with the resume and qualifications of the Paleontological Resource Specialist (PRS) for review and approval.	Submit the resume, references, and statement of availability to the CPM for review and approval.	At least 60 days prior to ground disturbance	11/2/10	GenOn	9/29/2010 4/22/2011	2010-1260 10/5/2010	Approved 9/30/2010 New Monitor Annette Conrolito
PC-1	PAL-1b	Provide a letter with resumes naming anticipated monitors stating they meet mimimum quals for monitoring.	Submit the requested info to the CPM .	At least 20 days prior to ground disturbance	12/12/10	GenOn	11/2/10	2010-1565	Approved (No Date Given)
PC-1	PAL-2	Provide to the PRS and the CPM, for approval, maps and drawings showing the footprint of the power plant, construction laydown areas and all related facilities.	Provide maps and drawings to the PRS and CEC CPM	At least 30 days prior to ground disturbance	12/2/10	GenOn	12/2/10		Approved (No Date Given)
PC-1	PAL-3	The PRS shall prepare and submit a Paleontological Resources Monitoring and Mitigation Plan (PRMMP) to identify general and specific measures to minimize potential impacts to significant paleontological resources	Provide the PRMMP to the CEC CPM, including an affidavit of authorship by the PRS and acceptance of the PRMMP by the project owner evidenced by a signature.	At least 30 days prior to ground disturbance	12/2/10	PRS	11/4/2010 Final 12/14/2010	2010-1577	Ammended 7/26/10 Affidavit not required.
PC-1	PAL-4	If deemed needed, the PRS shall prepare and conduct weekly CPM-approved training for all project managers, construction supervisors and workers who are involved with or operate ground	Provide the WEAP materials to the CPM including: brochure, reporting procedures, script, and final video.	At least 30 days prior to ground disturbance	12/2/10	PRS	10/26/2010 1/26/2011	2010-1489	APPROVED ON GOING 11/29/2010
PC-2	SOCIO-1	Pay the one-time statutory school development fee to the Antioch Unified School District as required by Education Code Section 17620	Provide the CPM proof of payment of the fee	At least 30 days prior to start of project construction	3/2/11	GenOn	2/4/11		Approved (No Paperwork Given)
PC-1	Soil & Water-2a	Obtain CPM approval for a site- specific Drainage, Erosion, and Sedimentation Control Plan (DESCP)	Submit a copy of the DESCP to the CPM along with evidence from Contra Costa County that the DESCP meets the requirements of Contra Costa Clean Water Program.	No later than 30 days prior to the start of site mobilization	12/2/10	KIEWIT	1/24/11	2011-0158	Approved (No Paperwork Given)
PC-2	Soil & Water-2b	Coordinate with Contra Costa County to ensure that the DESCP meets local requirements for a post-construction Storm Water Control Plan.	The DESCP shall meet local requirements for a post-construction Storm Water Control Plan.	No later than 30 days prior to the start of construction.	3/2/11	KIEWIT	2/19/11		Approved 3/28/2011
PC-1	TRANS-1	In coordination with Contra Costa County Public Works Department, develop and implement a construction traffic control plan to include the items specified within the condition	Provide CCCPW and the city of Antioch Engineering Department for review and comment the construction traffic control plan. Provide to the CPM the construction	At least 60 days prior to the start of site mobilization	11/2/10	KIEWIT	11/18/2010 1/5/2011 1/31/2011	2010-1685 2011-0219	Returned for addional Informatio 12/13/2010. Resubmitted 1/5/2011 Resubmitted additional

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PC-1	TRANS-2a	Prepare a mitigation plan for Wilbur Ave should it be damaged by project construction. Should ensure that if damage occurs it will be repaired to original condition. The plan include the condition specified items (Photographic/videotape evidence of pre construction condition is req)	Submit a mitigation plan focused on restoring the local identified roads to is pre-project condition to the City of Antioch for review and comment and to the CPM for Review and approval.	At least 90 days prior to the start of any site (or related facilities) mobilization	10/3/10	KIEWIT	11/18/10	2010-1686	Approved 2/4/2011 No Paperwork Given
PC-2	TSE-2	Assign an electrical engineer and at least one of each of the following: a civil engineer; geotechnical engineer or a civil engineer experienced and knowledgeable in the practice of soils engineering; a design engineer who is either a structural engineer or a civil engineer and fully competent and proficient in the design of power plant structures and equipment	Submit names, resumes, quals, and registration numbers of all engineers assigned to the project to the CBO for review and approval. (If any are replaced, new resumes must be submitted.)	Prior to start of rough grading	3/2/11	KIEWIT	To CBO 1-27-11 To CEC 2/16/2011 8/15/2011 9/29/2011	Verballty approved (C.H.)	CBO Approved 2-16-11 CEC Approved 3/16/2011 Submitted Reid Strain for Design Engineer and
PC-1	WASTE-1a	Comply with BAAQMD Regulation 11, rule 2 req for management and disposal of asbestos contain material removed during project demolition.	Provide to the CPM copies of the BAAQMD notification materials, acknowledgment letter and job number assigned by the BAAQMD for review and approval	No less than 10 day prior to commencement of project related demolition	1/7/11	K&G	1/24/11		Approved 1/31/2011 No Paperwork
PC-1	WASTE-2	Complete a lead-based paint survey of all structures to be demolished and ensure that project related demolition debris contain lead based paint is properly managed and disposed of in accordance with all applicable LORS	Verification: At least 30 days prior to the start of project-related demolition, the project owner shall submit to the CPM for review and approval a copy of the lead-based paint survey conducted for the project site. The project manager shall also provide to the CPM a description of the procedures	At least 30 days prior to the start of project-related demolition	12/2/10	GenOn	1/5/11	2011-0137	Approved 1/31/2011 No Paperwork
PC-1	WASTE-3	Provide the resume of a Registered PE or Geologist, who shall be available for consultation during site characterization (if needed), excavation and grading activities.	Submit resume to CPM for approval. Provide to the CPM a copy of the contract with the approved professional Engineer/Geologist prior to start of project related demolition	At least 30 days prior to site mobilization	12/2/10	KIEWIT	11/24/10	2010-1730	Approved 1/18/2011
PC-1	WASTE-5a	Comply with all applicable provisions of the city of Antioch's Construction and Demolition Debris Recycling Ordinance No. 1018- C-S., including preparation of a Construction and Demolition Debris Recycling Ordinance Waste Management Plan for all wastes generated during project demolition and construction activities.	At least 45 days prior to the start of project-related demolition, the project owner shall submit to the city a draft Construction and Demolition Debris Recycling Ordinance Waste Management Plan for review and comment. Submit to the CPM for review and approval the draft Waste Management Plan	Not less than 15 days prior to the start of project-related demolition	11/25/10	KIEWIT	12/02/2010 to City 12/03/2010 to CEC Resubmit to CEC 12/21/2010	2010-1784 2010-1927	Approved 1/31/2011 No Paperwork

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PC-1	WASTE-6a	Obtain a hazardous waste generator identification number from the United States Environmental Protection Agency prior to generating any hazardous waste during construction.	Keep a copy of the identification number on file at the project site and provide the number to the CPM.	Prior to start of construction	12/10/10	K&M	11/16/2010 Asbestos Removal	2010-1665	Approved 11/18/2010
PC-1	WASTE-10	Ensure that the Marsh Landing Generating Station site is properly characterized so as to be able to identify hazardous wastes present at the project site. The project owner shall work closely with PG&E and Ensure that PG&E follows any	Provide the CPM for review and approval all project-related plans, results, and assessments provided by PG&E to DTSC and all obtainable project-related written correspondence between DTSC and PG&E	At least thirty (30) days prior to the start of any soil excavation or grading	3/2/11	GenOn	11/29/2010 6/28/2011	2010-1738 returned 12/3/2010 2011-0144	**Pending DTSC approval of plan letter. Additional**
PC-2	WORKER SAFETY-1	Submit a copy of the Project Construction Safety and Health Program containing the following construction plans: PPE, Exposure Monitoring, IIPP,EAP, and FPP. provide a copy of a letter to the CPM from the CCC Fire Protection District	The Safety Program, PPE, IIPP, and Exposure Monitoring Program shall be submitted to the CEC CPM for review and approval; the EAP and FPP shall be submitted to the CCC Fire Protection District	At least 30 days prior to start of construction	3/2/11	KIEWIT	1/11/11	2011-0111	Approved (No Paperwork Given)
PC-1	WORKER SAFETY-3a	Provide a site Construction Safety Supervisor (CSS) who, by way of training and/or experience, is knowledgeable of power plant construction activities and relevant laws, ordinances, regulations, and standards; is capable of identifying workplace hazards relating to the construction activities; and has authority to take	Submit to the CPM the name and contact information for the Construction Safety Supervisor (CSS). The contact information of any replacement CSS shall be submitted to the CPM within one business day.	At least 30 days prior to the start of construction	3/2/11	KIEWIT	11/18/2010 Kiewit		Approved (No Paperwork Given)
PC-2	WORKER SAFETY-4	Make payments to the CBO for the services of a Safety Monitor (in addition to the other services provided by the CBO). Safety monitor shall be responsible for verifying that the	Provide proof of agreement to fund the safety monitor services to the CPM for review and approval.	Prior to the start of construction	3/2/11	GenOn	1/31/11	2011-0220	Provided CBO letter confirming service were covered by GenOn 1/31/2011
PC-1	WORKER SAFETY-5a	Ensure that a portable automatic external defibrillator (AED) is located on site during demolition & construction, and shall implement a program to ensure that workers are properly trained in its use and that the equipment is properly maintained and functioning at all times.	Submit to the CPM proof that a portable automatic external defibrillator (AED) exists on site and a copy of the training and maintenance program for review and approval.	At least 30 days prior to the start of construction	12/2/10	KIEWIT	11/24/2010 Kiewit		Approved (No Paperwork Given)

4.0 Conditions Satisfied During the Reporting Period

The following table lists the compliance requirements that were approved/ satisfied in the reporting period. A complete list of satisfied requirements is included in the Compliance Matrix and is shaded to indicate completion.

Condition	Description	Approval Date and Notes
NA		

Marsh Landing Generating Station

Monthly Compliance Report

September 2011

5.0 Submittal Deadlines Missed

Marsh Landing was seeking CEC authorization for site grading/construction by a target date of March 18, 2011. CEC Compliance Management approved the filings and authorized construction to commence on March 25, 2011. The anticipated online date of the Marsh Landing Generation Station is 5/1/2013.

There were no Submittal Deadlines missed to support the CEC Authorization described above.

Marsh Landing Generating Station

Monthly Compliance Report

September 2011

6.0 Approved Changes to Conditions of Certification – Cumulative List

Condition of Certification	Date Change was approved
PAL-3	July 26, 2010

7.0 Other Governmental Agency Filings and Permits Issued

City of Antioch and GenOn executed an Out of Agency Services and Project Agreement on September 1, 2011. City of Antioch will provide water and sewer services to the project under this Agreement.

The attachment titled “Marsh Landing Generating Station Part B Government Approval Status Summary” contains approval notices received to date (excluding Material Governmental Approvals).

Marsh Landing Generating Station
Part B Approval Status Summary

Permit Required	Date of Approval Given
1. Permit to Operate by BAAQMD (to be obtained prior to operating equipment)	Q1 2013 Expected
2. Clean Air Act Title IV Permit by BAAQMD (Acid Rain Permit) (application to be filed with BAAQMD at least 24 months prior to first fire)	2013 Expected
3. Clean Air Act Title V Permit by BAAQMD (to be obtained within 12 months after commencing operation)	2013 Expected
4. FERC Order Granting Market Based Rate Authorization (to be obtained prior to start-up or testing of the MLG Project or generating electricity from the MLGS Project)	Q1 2013 Expected
5. FERC Acceptance or Issuance of Certification or Self-Certification of Exempt Wholesale Generator Status (to be obtained prior to start-up or testing of the MLGS Project or generating electricity from the MLGS Project)	Q1 2013 Expected
6. FERC Approval of Executed CAISO Interconnection Agreement (to be obtained by CAISO after execution)	5/2/2011 Actual
7. FERC Approval of Executed Participating Generator Agreement and Meter Service Agreement (to be obtained by CAISO after execution)	Q1 2013 Expected
8. Additional Governmental Approvals Identified in the CEC Decision or otherwise required in the ordinary course of business, including the following:	
a. BAAQMD notification materials, acknowledgment letter and job number assigned by BAAQMD for MLGS Project demolition activities (to be obtained not less than 10 days prior to commencement of MLGS Project-related structure demolition)	1/20/2011 Actual
b. Contractors permit for well installation (to be obtained prior to installing wells)	7/28/11 Actual
c. Certificates of Occupancy from the Chief Building Official (Contra Costa County) (CBO) (to be obtained prior to permanent occupancy of buildings)	Q1 2012 Expected
d. Contractors permits for construction, including grading and drainage, excavation, fire protection, building and Notice of Intent for California Statewide General Construction Storm Water Permit (State Water Resources Control Board Order No. 2009-0009-DWQ)) (application for grading permit to be submitted at least 30 days prior to grading; others to be obtained as specified in the CEC Decision or by the CBO)	3/25/2011 Actual
e. Other CBO approvals to be obtained as specified in the CEC Decision	Ongoing
f. Contractors transportation-related permits (including heavy haul permits) for transportation of equipment to the site (to be obtained prior to transporting equipment)	Q1 2012 Expected
g. Notice of Intent to Comply with the General National Pollutant Discharge Elimination System Permit for Discharges of Storm Water Associated with Construction Activity, and California Statewide General Industrial Storm Water Permits (State Water Resources Control Board Order No. 97-03-DWQ) (to be submitted 30 days prior to site mobilization)	1/5/2011 Actual
h. Notice of Intent to obtain coverage under Central Valley Regional Water Quality Control Board Order No. R5-2008-0081 for Waste Discharge Requirements for Dewatering and Other Low Threat Discharges to Surface Water (to be submitted prior to any groundwater discharge or dewatering activities)	Q4 2011 Expected
i. Evidence from Contra Costa County that the site-specific Drainage, Erosion, and Sedimentation Control Plan meets the requirements of the Contra Costa County Clean Water Program (to be provided 30 days prior to site mobilization)	1/20/2011 Actual
j. Contra Costa County Business License (to be obtained before engaging in business in the unincorporated area of Contra Costa County)	1/1/2011 Actual

k.	United States Environmental Protection Agency hazardous waste generator identification number (to be obtained prior to starting construction)	11/18/2010 Actual
l.	Agreement and/or permit for sewer service from City of Antioch (to be obtained prior to completing the connection to the sewer line)	9/1/2011 Actual
m.	Executed Wastewater Discharge Agreement and any required industrial wastewater discharge permit from Delta Diablo Sanitation District ("DDSD") (to be obtained no later than 60 days prior to completing the connection to DDSD's wastewater pipeline)	6/6/2011 Actual
n.	Permit for crane operation (to be obtained prior to the start of construction)	Q4 2011 Expected
o.	Pressure vessel permit (to be obtained prior to the vessels being placed into service)	Q1 2012 Expected
p.	Potable water connection permit (to be obtained prior to installing connection with potable water system)	9/1/2011 Actual
q.	Certification to Store Hazardous Materials (Hazardous Materials Business Plan) by Contra Costa County Health Services Department (to be obtained at least 30 days prior to receiving hazardous materials on site)	Q3 2012 Expected
r.	Approval of Risk Management Plan and Off-Site Consequence Analysis by Contra Costa County Health Services Department (to be obtained at least 30 days prior to delivery of aqueous ammonia to the site)	Q3 2012 Expected
s.	Approval of Spill Prevention, Control, and Countermeasure Plan by Contra Costa County Health Services Department for management of hazardous (to be obtained at least 30 days prior to receiving hazardous materials on site for commissioning or operations)	Q3 2012 Expected
t.	Any approvals required from California Environmental Protection Agency Department of Toxic Substances Control as specified in the CEC Decision (to be obtained at least 30 days prior to the start of any soil excavation or grading)	2/7/2011 Actual
u.	Encroachment permit for construction within Contra Costa County or City of Antioch right-of-way (to be obtained prior to starting construction in any right-of-way)	3/14/2011 Actual
v.	Waiver by the City of Antioch allowing heavy equipment operation and noisy construction work relating to the MLGS Project to take place earlier or later than times listed in CEC Decision (to be obtained prior to ground disturbance if construction activities will take place outside the specified times)	5/5/2011 Actual
w.	Approval by the Contra Costa County Public Works Department and the City of Antioch Engineering Department of the construction traffic control plan (to be provided at least 60 days prior to the start of site mobilization)	2/10/2011 Actual
x.	Approval by Contra Costa County of a lighting mitigation plan (process to be commenced at least 90 days prior to ordering any permanent exterior lighting)	Q1 2012 Expected
y.	Compliance with certification, verification and other requirements specified in California Public Utilities Commission General Order 167 (to be provided when the MLGS Project is interconnected and capable of operating in parallel with the electric system)	Q1 2013 Expected

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8.0 Project Two Month Projection

Kiewit will apply for a dewatering discharge permit.

Kiewit will continue project engineering. Kiewit expects to receive CBO approval for the CTG foundation design.

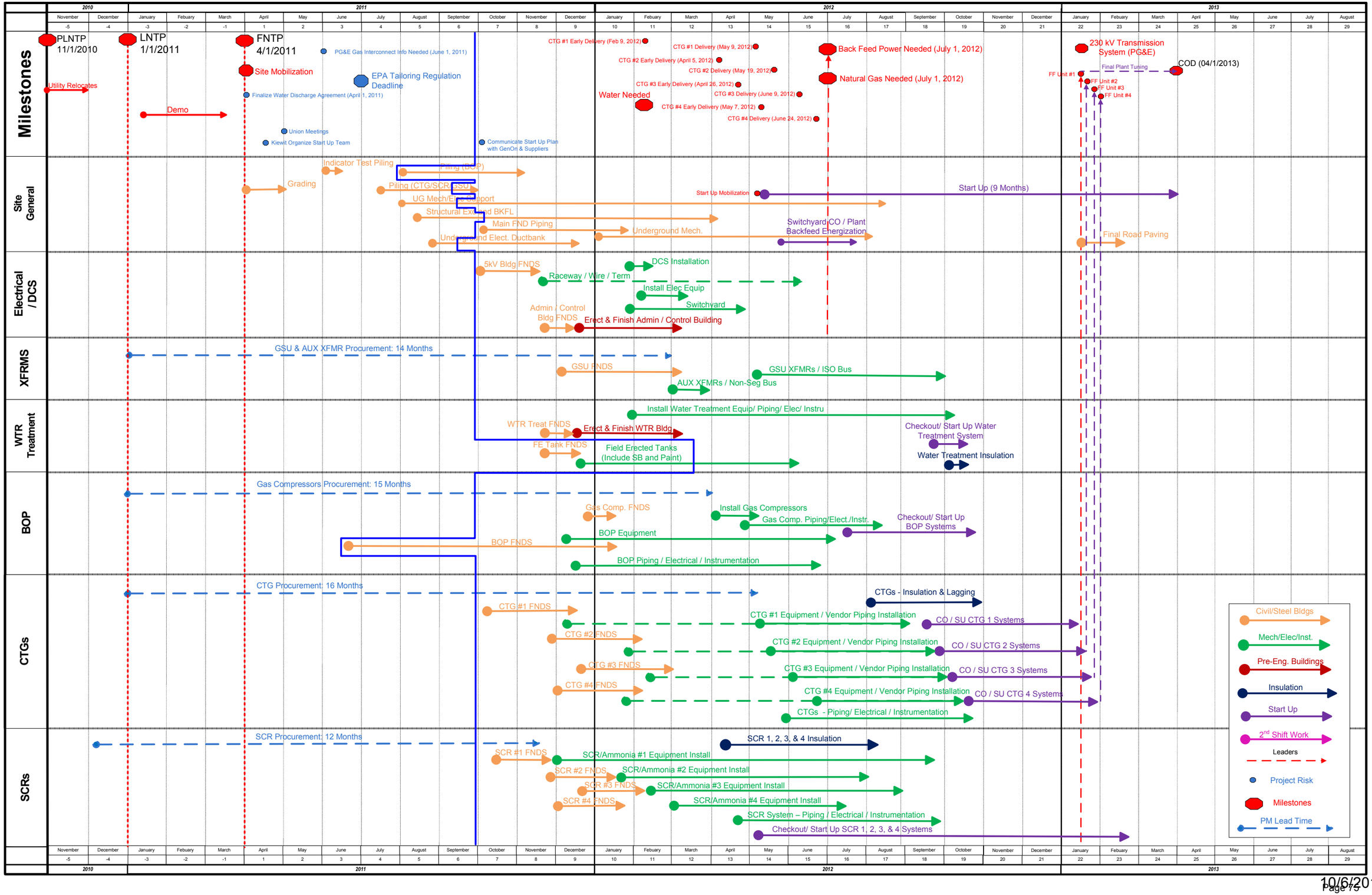
Kiewit plans to issue for construction fuel gas compressor equipment/building piling, temporary warehouse foundation, SCR cooling air fans foundation, CTG foundation, electrical vault/enclosure foundation, and water treatment electrical enclosure foundation and vault drawings.

Siemens will continue engineering, procurement and manufacturing process related to gas turbine-generator equipment.

Mitsubishi will continue engineering, procurement and manufacturing process related to the SCRs.

Kiewit is forecast to complete pile driving in power blocks 3 and 4 in mid–October, and to start pouring equipment foundations in late October or early November.

Work is continuing on electrical duct banks and pipe trenches, mainly in the power block areas.


2010
2011
2012
2013
November December January Febuary March April May June July August September October November December January Febuary March April May June July August September October November December January Febuary March April May June July August
-5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
Milestones
PLNTP 11/1/2010
LNTP 1/1/2011
FNTP 4/1/2011
PG&E Gas Interconnect Info Needed (June 1, 2011)
Site Mobilization
EPA Tailoring Regulation Deadline
Utility Relocates
Finalize Water Discharge Agreement (April 1, 2011)
Demo
Union Meetings
Kiewit Organize Start Up Team
Communicate Start Up Plan with GenOn & Suppliers
CTG #1 Early Delivery (Feb 9, 2012)
CTG #1 Delivery (May 9, 2012)
CTG #2 Early Delivery (April 5, 2012)
CTG #2 Delivery (May 19, 2012)
CTG #3 Early Delivery (April 26, 2012)
CTG #3 Delivery (June 9, 2012)
Water Needed
CTG #4 Early Delivery (May 7, 2012)
CTG #4 Delivery (June 24, 2012)
Back Feed Power Needed (July 1, 2012)
Natural Gas Needed (July 1, 2012)
230 kV Transmission System (PG&E)
Final Plant Tuning
COD (04/1/2013)
FF Unit #1
FF Unit #2
FF Unit #3
FF Unit #4
Site General
Indicator Test Piling
Piling (BOP)
Grading
Piling (CTG/SCR/SSU)
UG Mech/Elec Support
Structural Excav. and BKFL
Main FND Piping
Underground Elect. Ductbank
Start Up Mobilization
Start Up (9 Months)
Underground Mech.
Switchyard CO / Plant Backfeed Energization
Final Road Paving
Electrical / DCS
5kV Bldg FNDS
DCS Installation
Raceway / Wire / Term
Install Elec Equip
Switchyard
Admin / Control Bldg FNDS
Erect & Finish Admin / Control Building
XFRMS
GSU & AUX XFMR Procurement: 14 Months
GSU FNDS
GSU XFMRs / ISO Bus
AUX XFMRs / Non-Seg Bus
WTR Treatment
Install Water Treatment Equip/ Piping/ Elec/ Instru
WTR Treat FNDS
Erect & Finish WTR Bldg
Checkout/ Start Up Water Treatment System
FE Tank FNDS
Field Erected Tanks (Include SB and Paint)
Water Treatment Insulation
BOP
Gas Compressors Procurement: 15 Months
Gas Comp. FNDS
Install Gas Compressors
Gas Comp. Piping/Elect./Instr.
Checkout/ Start Up BOP Systems
BOP Equipment
BOP FNDS
BOP Piping / Electrical / Instrumentation
CTGs
CTG Procurement: 16 Months
CTGs - Insulation & Lagging
CTG #1 FNDS
CTG #1 Equipment / Vendor Piping Installation
CO / SU CTG 1 Systems
CTG #2 FNDS
CTG #2 Equipment / Vendor Piping Installation
CO / SU CTG 2 Systems
CTG #3 FNDS
CTG #3 Equipment / Vendor Piping Installation
CO / SU CTG 3 Systems
CTG #4 FNDS
CTG #4 Equipment / Vendor Piping Installation
CO / SU CTG 4 Systems
CTGs - Piping/ Electrical / Instrumentation
SCRs
SCR Procurement: 12 Months
SCR 1, 2, 3, & 4 Insulation
SCR #1 FNDS
SCR/Ammonia #1 Equipment Install
SCR #2 FNDS
SCR/Ammonia #2 Equipment Install
SCR #3 FNDS
SCR/Ammonia #3 Equipment Install
SCR #4 FNDS
SCR/Ammonia #4 Equipment Install
SCR System – Piping / Electrical / Instrumentation
Checkout/ Start Up SCR 1, 2, 3, & 4 Systems
Civil/Steel Bldgs
Mech/Elec/Inst.
Pre-Eng. Buildings
Insulation
Start Up
2nd Shift Work
Leaders
Project Risk
Milestones
PM Lead Time

Marsh Landing Generating Station
Monthly Compliance Report

September 2011

9.0 Additions to the On-Site Compliance File

The following items were added to the compliance file

Sub #	Conditions Submitted	Date of Submission
60	CIVIL-3	9/2/2011
61	CIVIL-3, CUL-1, AQ-39	9/13/2011
62	MCR#12	9/15/2011
63	CIVIL-3	9/23/2011
64	GEN-6	9/23/2011
65	GEN-6	9/27/2011
66	TSE-2	9/29/2011
67	SOIL&WATER-6	9/29/2011

Marsh Landing Generating Station

Monthly Compliance Report

September 2011

10.0 Complaints, Notices of Violations, Official Warnings, Citations, and Corrective Actions Taken

During the month of September an anonymous call went to California – Emergency Management Agency (Cal-EMA) that the Marsh Landing Generating Station was discharging water into the San Joaquin River.

As a result from this call three unannounced inspections were made by three separate agencies, the California Department of Fish and Game (North Coast District), a Hazardous Materials Inspector from the Contra Costa Health Services, and California Environmental Protection Agency – Regional Water Quality Control Board.

No violations were found during these inspections. The following detailed accounts of these inspections were emailed to Christine Stora and are also attached below for reference.

From:	Owens, Dawn
To:	Owens, Dawn
Subject:	RE: Contra Costa Health Services Inspection of MLGS
Date:	Wednesday, October 12, 2011 10:20:40 AM

From: Frandsen, David
Sent: Friday, September 23, 2011 10:28 AM
To: Frandsen, David; 'cstora@energy.state.ca.us'
Cc: Hicklin, Chuck; Owens, Dawn
Subject: Contra Costa Health Services Inspection of MLGS

Ms. Stora,

The following report was issued by Nick Hontucan Site Manager for Marsh Landing Generating Station. I am not clear if a notification of this inspection is specifically required under any of the Conditions of Certification (CoC), but we wanted to alert you regardless. Our intention is to include the report under tab 10 of the next monthly report as well unless you advise otherwise. If you are aware of a CoC under which to submit this inspection please advise and I will make a formal submittal.

Thanks,

David Frandsen
GenOn
925-779-6539
925-324-3533

In accordance with the Marsh Landing Notification Protocol, I am sending this report:

At approximately 1:00 pm today, September 21st, , Sue A. Loyd, Hazardous Materials Inspector from the Contra Costa Health Services made an unannounced inspection at the Marsh Landing Project following a complaint reported that MLGS was discharging water to San Joaquin River. This is the same complaint last week when an enforcement officer from California Department of Fish and Game came to MLGS. Sue Loyd was met at the Contra Costa Generating Station gate by Kiewit Project Compliance Manager, Raja Ponniah. I then joined them in Kiewit's offices for a brief discussion. We accompanied her to where 12 storage tanks have been positioned at the project for future use on construction dewatering. She inspected the discharge pipe that has been installed and inspected the storage tank and found that the tank is brand new and has not been used yet. She was satisfied with what she saw and confirms there is no discharge. Kiewit explained to her that a revised permit application is being prepared since the Regional Board wanted for Kiewit to apply for a "Limited Threat Permit" and not for "Low Threat Permit".

I then inquired how did the complaint came. She explained that the complaint was routed to the Contra Costa County Health Services. She indicated that she performs several inspections on these types of facilities/construction and it was routine inspection for her to follow up after a complaint is received. When asked about her inspection report, she indicated that she will file her report in the County and this report does not get forwarded to any other agencies. No documents were requested or provided as she was satisfied with what she saw in the inspection.

The discussions with Sue Loyd concluded at approximately 1:30 pm PT and then she left the facility.

Nick Hontucan
Site Manager
GenOn Energy
Marsh Landing Generating Station

From:	Owens, Dawn
To:	Owens, Dawn
Subject:	RE: CDFG Inspection of MLGS
Date:	Wednesday, October 12, 2011 10:17:58 AM

From: Frandsen, David
Sent: Monday, September 19, 2011 11:07 AM
To: 'cstora@energy.state.ca.us'
Cc: Hicklin, Chuck; Owens, Dawn
Subject: CDFG Inspection of MLGS

Ms. Stora,

The following report was issued by Nick Hontucan Site Manager for Marsh Landing Generating Station. I am not clear if a notification of this inspection is specifically required under any of the Conditions of Certification (CoC), but we wanted to alert you regardless. Our intention is to include the report under tab 10 of the next monthly report as well unless you advise otherwise. If you are aware of a CoC under which to submit this inspection please advise and I will make a formal submittal.

Thanks,

David Frandsen
GenOn
925-779-6539
925-324-3533

At approximately 1:15 pm, September 15, Jessica Jacobsen from the California Department of Fish and Game (North Coast District) made an unannounced inspection at the Marsh Landing Project following an anonymous complaint received yesterday that MLGS was discharging water to San Joaquin River. Upon entering the Contra Costa Generating Station gate, she immediately went to the MLGS site where 12 storage tanks have been positioned at the project for future use on construction dewatering. Kiewit Safety Managers (Robert Stormo and Eric Campbell) and Kiewit Project Compliance Manager (Raja Ponniah) then met with Jessica to find out the purpose of her unannounced inspection. I then joined the team and Jessica explained to me about the anonymous call. Raja Ponniah explained to her that Kiewit had applied a permit for construction dewatering ("Low Threat" permit) to the Regional Water Board and they have responded that the project will need a "Limited Threat" permit. Kiewit is in the process of preparing the documentation requirements to submit a "Limited Threat" permit and has not been using the storage tanks nor discharging groundwater to San Joaquin River until approval is received. She inspected the discharge pipe that has been installed and found that it has not been used yet and she also climbed and inspected the storage tank and found that the tank is brand new and has not been used yet. She was satisfied with what she saw and confirms there is no violation.

After the inspection, Kiewit invited her in Kiewit's offices as she wanted to see the documents that were submitted to the Regional Water Board. I joined them together with GenOn's project site environmental consultant, Kathy Crist.

- Kiewit provided a copy of email between Regional Water Board and Kiewit regarding the dewatering application upon Jessica Jacobsen's request. She needs this email to reference in her report.
- Kiewit showed her the documents that were sent to Regional Water Board in applying the dewatering permit but she did not request a copy of these documents.

I then inquired how did the anonymous call came. She explained that the anonymous call went to California – Emergency Management Agency (Cal-EMA) and from there it alerted all other agencies. Since the location is related

to “Inland Waters” the first responders are Department of Fish and Game and the US Coast Guard. She thinks that once she files her report about her inspection that the other agencies will no longer make their separate inspection. Her inspection report will be submitted to Cal-EMA and subsequently routed to the other agencies.

The discussions with Jessica Jacobsen concluded at approximately 1:40pm PT and then she left the facility.

From: Owens, Dawn
To: Owens, Dawn
Subject: RE: RWQCB Inspection of MLGS
Date: Wednesday, October 12, 2011 10:21:13 AM

From: Frandsen, David
Sent: Friday, September 30, 2011 10:20 AM
To: Frandsen, David; 'cstora@energy.state.ca.us'
Cc: Hicklin, Chuck; Owens, Dawn
Subject: RWQCB Inspection of MLGS

Ms. Stora,

The following report was issued by Randy Dixon Operations and Maintenance Manager for Marsh Landing Generating Station. I am not clear if a notification of this inspection is specifically required under any of the Conditions of Certification (CoC), but we wanted to alert you regardless. Our intention is to include the report under tab 10 of the next monthly report as well unless you advise otherwise. If you are aware of a COC under which to submit this inspection please advise and I will make a formal submittal.

Thanks,

David Frandsen
GenOn
925-779-6539
925-324-3533

At approximately 1:30pm today, September 29, Richard Muhl from the California Environmental Protection Agency – Regional Water Quality Control Board made an unannounced inspection of the Marsh Landing Generating Project, due to an anonymous complaint that MLGS was discharging water to the San Joaquin River. Richard was escorted by Raja Ponniah, Kiewit's Project Compliance Manager, and myself. Raja explained to Richard that Kiewit had applied for a permit for construction dewatering ("Low Threat" permit) to the Regional Water Board and they have responded that the project will need a "Limited Threat" permit. Kiewit is in the process of preparing the documentation requirements to submit a "Limited Threat" permit and has not been using the storage tanks nor discharging groundwater to San Joaquin River until approval is received. Richard inspected the dewatering discharge pipe, the dewatering storage tanks and noted they had not been used to date. He was satisfied with what he saw and confirmed there is no violation. Richard had spoken with Michael Negrete, California Environmental Protection Agency – Regional Water Quality Control Board Dewatering Engineer, prior to today's visit and was aware of the pending permit.

Richard also inspected a couple of the storm drain inlets, the associated silt fencing, and approved of the operation. He stated he will return to visit the site during the rainy season. Richard left the site at approximately 1:50pm.

Thank you,
Randy Dixon
Operations and Maintenance Manager
GenOn Marsh Landing Generating Station
Phone: (925) 779-6683
Cell: (925) 324-3565

Marsh Landing Generating Station

Monthly Compliance Report

September 2011

11.0 Key Events List-

Milestone	DATE (Expected or Actual)*
Event Description	
Certification Date	8/25/2010 (Actual)
Obtain Site Control	9/21/2010 (Actual)
Online Date	5/1/2013
Site Activities	
Start Site Mobilization	2/15/2011 (Actual)
Start Construction	3/25/2011 (Actual)
Start Grading	4/19/2011 (Actual)
Start Ground Disturbance	4/19/2011 (Actual)
Begin Pouring Major Foundation Concrete	10/1/2011
Begin Installation of Major Equipment	12/1/2011
Complete All Construction	4/1/2013
First Combustion Gas Turbine	5/1/2013
Obtain Building Occupation Permit	5/1/2013
Start Commercial Operation	5/1/2013
Transmission Line Activities	
Start T/L Construction	1/1/2012
Synchronization with Grid and Interconnection	12/1/2012
Complete T/L Construction	5/1/2012
Fuel Supply Line Activities	
Start Gas Pipeline Construction and Interconnection	6/29/2011 (Actual)
Complete Gas Pipeline Construction	7/1/2012
Water Supply Line Activities	
Start Water Supply Line Construction	5/16/2011 (Actual)
Complete Water Supply Construction	7/1/2012
CEC Authorization	
Obtain Asbestos Removal Letter from CEC	1/31/2011 (Actual)
Obtain Authority to Construct Letter from CEC	3 /25/2011 (Actual)

*Dates indicated are actual or expected dates GenOn Marsh Landing began or expects to begin construction/ and or activities related to the facility of the milestone indicated.