Docket Number:	08-AFC-03C
Project Title:	Marsh Landing Generating Station Compliance
TN #:	203085
Document Title:	NRG Marsh Landing's Responses to Data Requests 1-3
Description:	N/A
Filer:	URS
Organization:	URS
Submitter Role:	Applicant Consultant
ubmission Date:	9/19/2014 3:34:21 PM
Docketed Date:	9/19/2014



September 19, 2014

Christine Stora Compliance Project Manger California Energy Commission 1516 Ninth Street, MS 4 Sacramento, CA 95814

RE: Marsh Landing Generating Station

Petition to Amend (08-AFC-03C) Responses to Data Requests 1 - 3

Dear Ms. Stora,

NRG Marsh Landing LLC submitted a Petition to Amend the Marsh Landing Generating Station's license on July 8, 2014. On August 20, 2014, the California Energy Commission Staff requested additional information related to soil and water resources.

On behalf of NRG Marsh Landing LLC, please find enclosed the *Responses to Data Requests 1 - 3*.

If you have questions on this submittal, please call me at (415) 243-3892 or George Piantka at (760) 710-2156.

URS Corporation

Anne Connell
Project Manager

cc: George Piantka, NRG Enclosure

Technical Area: Soil and Water Resources

Author: Christopher Dennis

BACKGROUND

The Marsh Landing Generating Station (MLGS) proposes to change its fire suppression water supply from a connection to the Contra Costa Generating Station (CCGS) fire suppression loop (raw water from the San Joaquin River) to potable water supplied by the City of Antioch. The MLGS onsite fire suppression system includes an underground firewater loop that supplies the hydrants and fixed suppression systems installed for the MLGS structures. MLGS currently shares the CCGS fire pump that draws water from the San Joaquin River. CCGS has requested that MLGS be disconnected from the CCGS fire pump system. The project owner has indicated the water use permitted in accordance with Condition of Certification SOIL&WATER-6 (50 acre-feet per year) will not increase. The current supply for all project operation and sanitary needs is provided by the City of Antioch.

The proposed new fire suppression water supply would require a new diesel fire pump and approximately 150 lineal feet of new piping. The new piping would be installed from the fire pump to the existing raw water storage tank, where the fire suppression water would be stored. The piping would be above ground and below ground to a maximum depth of five feet.

DATA REQUESTS

1. Please explain why CCGS requested the project owner disconnect from the fire suppression water loop shared with CCGS.

RESPONSE

On April 30, 2013, the CCGS was retired. The CCGS owner has since requested that MLGS install a stand-alone fire suppression system, because the CCGS is in the process of being decommissioned and will no longer be maintained or operated by CCGS. It therefore no longer will be available for use by MLGS.

Furthermore, as explained in the Petition to Amend submitted on July 8, 2014, the existing CCGS fire pump draws water from the San Joaquin River. The proposed fire pump for the MLGS fire suppression system will draw water from the Raw Water Storage Tanks which is supplied by City of Antioch water. As such the proposed modification will eliminate the direct intake of river water, thereby eliminating any potential adverse impacts to aquatic species associated with the withdrawal of river water.

2. Please provide water use data showing how much water was delivered from the CCGS fire suppression loop.

RESPONSE

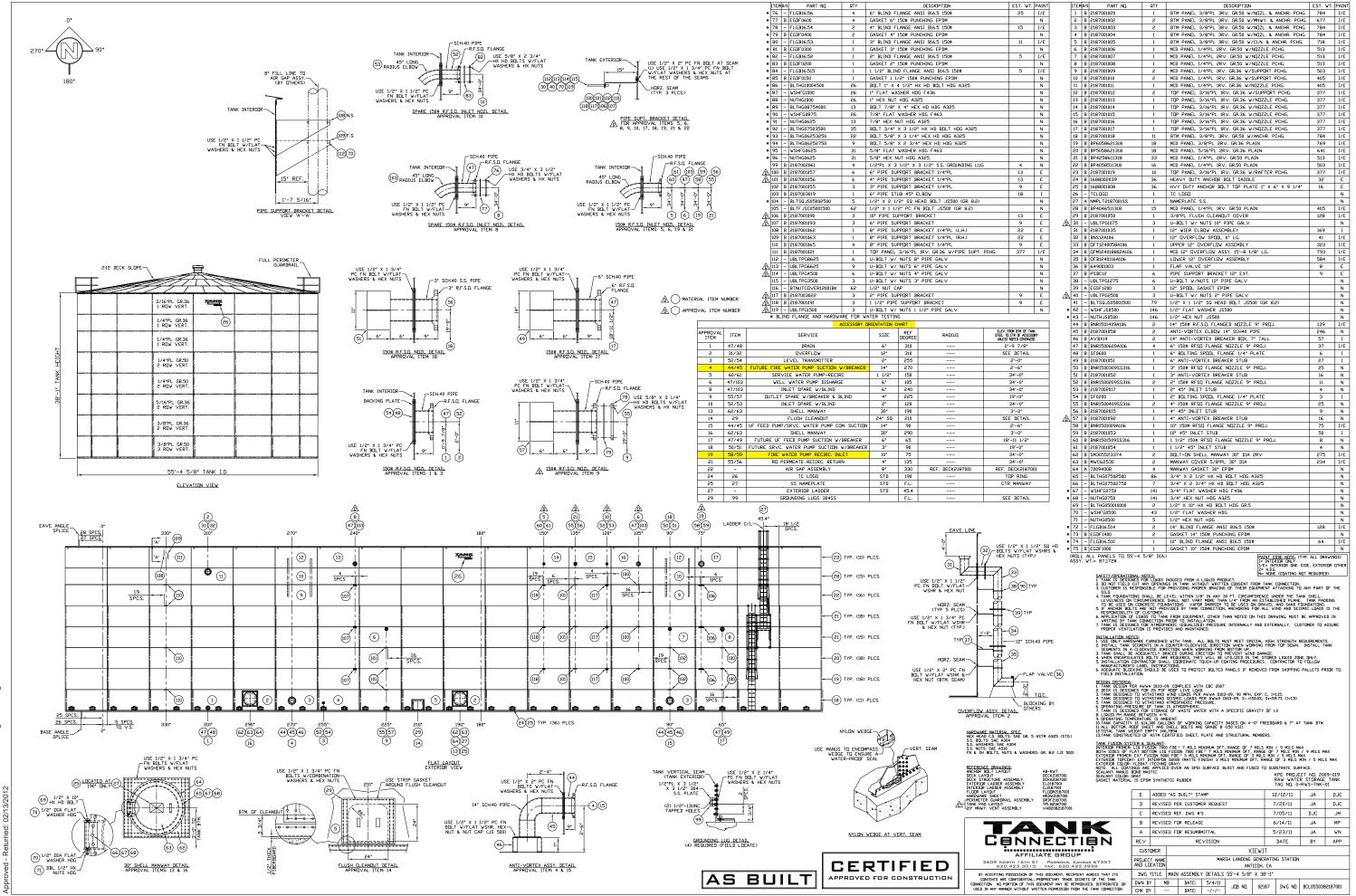
There are no water flow meters on the fire suppression system. Data showing volumes of water delivered from the fire suppression system are therefore not available. The only fire water usage post construction has been for annual inspection and testing of the hydrants, which was done on May 20, 2014.

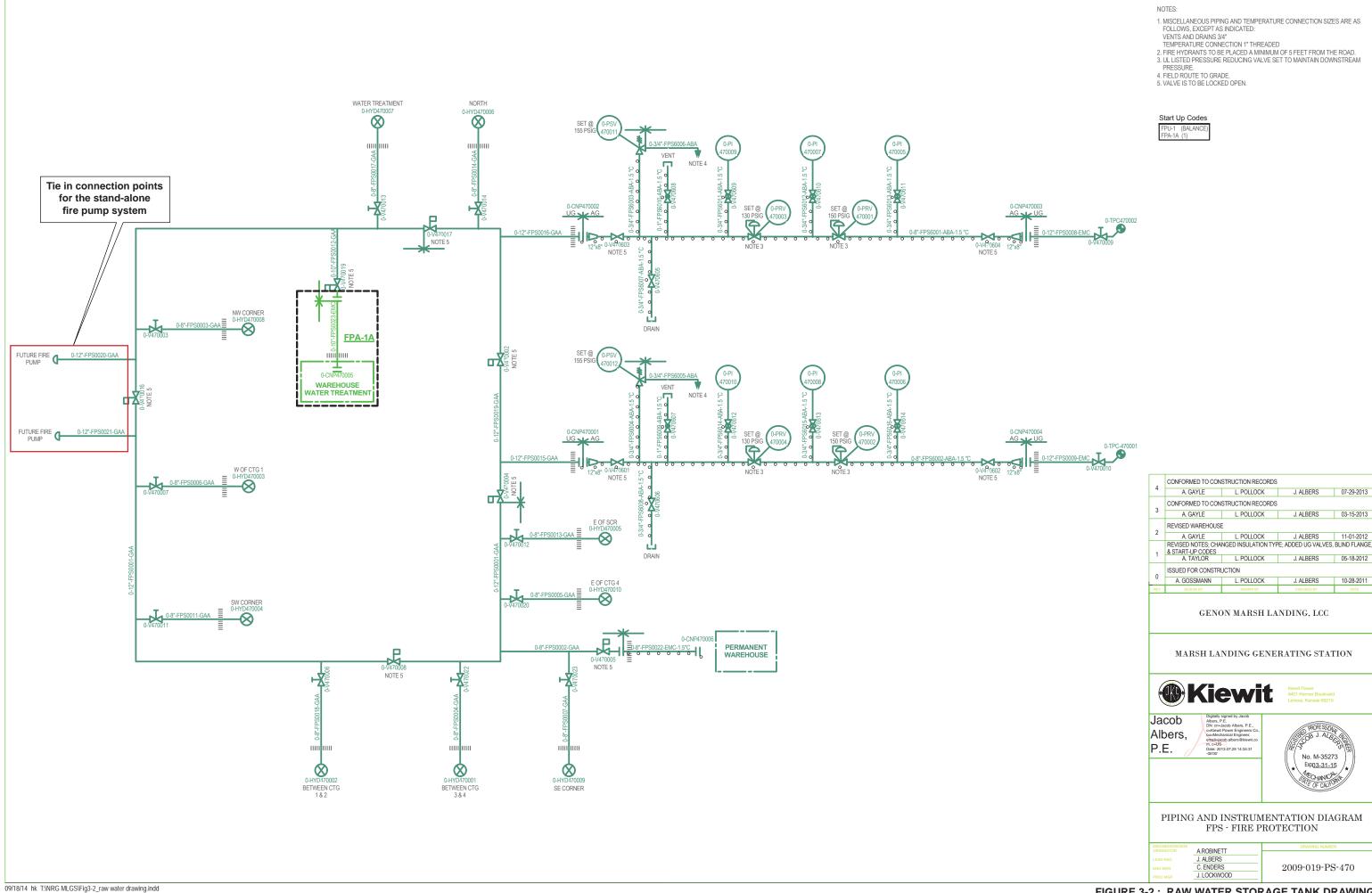
3. Please provide a detailed construction drawing showing the location of the piping where it would be above ground and below ground from the diesel pump to the raw water storage tank and where the piping would connect to the existing onsite fire suppression system.

RESPONSE

There are no detailed piping drawings at this time. The attached Piping and Instrumentation Diagram (Figure 3-1) shows the tie in points for the future system. The Raw Water Storage Tank drawing (Figure 3-2) shows connection numbers 4 and 19 are for future fire water piping (see Accessory Orientation Chart). These are the only drawings that NRG Marsh Landing has available at this time.

As described and shown on Figure 1 in the Petition to Amend submitted on July 8, 2014, there will be approximately 150 lineal feet of connection piping between the new fire pump, existing Raw Water Storage Tank and the existing fire loop. Most of the connection piping will be below ground (approximately 110 feet). The remaining approximately 40 feet will be above ground near the tank.





No. M-35273 Exp03-31-15

2009-019-PS-470