

CALIFORNIA ENERGY COMMISSION

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**STATE OF CALIFORNIA
 ENERGY RESOURCES CONSERVATION
 AND DEVELOPMENT COMMISSION**

In the Matter of:)	
EL SEGUNDO POWER)	Docket No. 00-AFC-14C
REDEVELOPMENT PROJECT)	
)	Order No. 12-0808-4
)	
NRG ENERGY)	ORDER APPROVING a Petition to Modify
)	the Range Of Ammonia Injection Rates,
)	Eliminate a Venturi Scrubber, and
)	Change The Project Name

On April 17, 2012, NRG Energy (NRG), the owner of the El Segundo Power Redevelopment Project, submitted a petition requesting to modify the range of ammonia injection rates, eliminate a venturi scrubber, eliminate the ammonia pipeline and change the project name.

STAFF RECOMMENDATION

Energy Commission staff reviewed the petition and finds that it complies with the requirements of Title 20, Section 1769(a) of the California Code of Regulations and recommends approval of NRG's petition to modify the El Segundo Power Redevelopment Project and amend related Conditions of Certification.

ENERGY COMMISSION FINDINGS

Based on staff's analysis, the Energy Commission concludes that the proposed changes will not result in any significant impact to public health and safety, or the environment. The Energy Commission finds that:

- The petition meets all the filing criteria of Title 20, section 1769(a) of the California Code of Regulations concerning post-certification project modifications;
- The modifications will not change the findings in the Energy Commission's Final Decision pursuant to Title 20, section 1755;
- The project will remain in compliance with all applicable laws, ordinances, regulations, and standards, subject to the provisions of Public Resources Code section 25525;

- There has been a substantial change in circumstances since the Energy Commission certification justifying the change, and the changes are the result of (1) final design information provided by the gas turbine manufacturer, that could not have been known at the time the preliminary design for the El Segundo Power Redevelopment Project was developed, and (2) an option for aqueous ammonia delivery, via pipeline, that is no longer viable.

CONCLUSION AND ORDER

The California Energy Commission hereby adopts Staff's recommendations and approves the following changes to the Commission Decision for the El Segundo Power Redevelopment Project, including the change in the name of the project. The project will now be the El Segundo Energy Center project.

CONDITIONS OF CERTIFICATION

New language is shown as **bold and underlined**, and deleted language is shown in ~~strikeout~~.

Air Quality

AQ-2: The operator shall install and maintain a flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia (NH₃) to the SCR in combined cycle turbines 5 and 7. The operator shall also install and maintain a device to continuously record the parameter being measured. The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every twelve months. The ammonia injection rate shall remain between 1 ~~4.8~~ gallons per hour and 75 ~~11.5~~ gallons per hour.

Verification: The project owner shall make the site available for inspection by representatives of the District, California Air Resources Board (CARB), the United States Environmental Protection Agency (EPA) and the California Energy Commission (Commission).

~~**AQ-31:** The operator shall vent this equipment to the two-stage venturi scrubber described as Device C64 whenever the tank is undergoing loading of ammonia.~~

~~**Verification:** The project owner shall make the site available for inspection by representatives of the District, CARB, EPA and the Commission.~~

Hazardous Materials Handling

HAZ-3 The project owner shall revise the existing CalARP Program Risk Management Plan (RMP), as needed to comply with the regulations. Similarly, the project owner shall also revise its existing RMP pursuant to the USEPA RMP Program. ~~Both RMPs shall be expanded to include discussions to prevent and control the accidental release of ammonia from the pipeline. Those discussions shall elaborate on the various safety devices selected for the pipeline including double sleeve construction, provisions for backup safety devices, protective shut-in actions, emergency support systems, monitoring programs and personnel training, as a minimum. The shut-in actions shall include responses to pipeline overpressures and also leaks.~~

Verification: At least 45 days prior to startup of Units 5, 6, and 7, the project owner shall furnish a final copy of each updated RMP to the CPM, CESFD and CMBFD. An initial draft of the CalARP RMP shall be provided to the CPM and the CESFD for review and comments. The final CalARP RMP shall be approved by the CPM. Similarly, an initial draft of the EPA RMP shall be provided to the CPM and the CESFD for review and comments, at the time it is submitted to the EPA for review. The final copy of the EPA RMP shall reflect recommendations of the CPM and the CESFD.

IT IS SO ORDERED.

CERTIFICATION

The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of an Order duly and regularly adopted at a meeting of the California Energy Commission held on August 9, 2012.

AYE: Weisenmiller, Peterman, McAllister

NAY: None

ABSENT: Douglas

ABSTAIN: None



Harriet Kallemeyn,
Secretariat
