

Briefing Outline for Siting Committee Presentation

CPV SENTINEL POWER PROJECT (07-AFC-3C)

Contact: Dale Rundquist (916) 651-2072

Time Needed: 10 minutes

Action Requested of Siting Committee: This is an informational item for review

Business Meeting Date: September 21, 2011

Background:

The CPV Sentinel Power Project will be an 850 MW natural gas powered peaker power plant located in an unincorporated area of Riverside County near the City of Desert Hot Springs. The project was certified by the Energy Commission on December 1, 2010, and is presently in construction.

SUMMARY OF PETITION

CPV Sentinel recently identified additional refinements to the general arrangement during detail project design. These refinements are listed as follows:

- The air inlet structures for all eight units are proposed to be 49.75 feet tall rather than the 40 feet approved in the original decision.
- The warehouse building located south of Unit 1 is relocated and attached to the operations building. The height of the control/warehouse building will be 22 feet tall instead of 24 feet.
- The gas compressor area is shifted east and the height of the building will be 9 feet tall instead of 26 feet.
- The control/electrical rooms for each combustion turbine unit will remain 12 feet tall but will be relocated. In previous design these rooms were located north of each unit's air inlet structure and orientated north-south. Now they are orientated east-west and located east of each unit's cooling tower and north of each unit's combustion turbine generator intercooler.
- The fire pump skid will be increased in height from 3 feet to 11 feet and reoriented from an east-west to a north-south direction. The fire pump stack will remain 50 feet tall and moved to south end of the skid.
- The raw water storage tank will be reduced in height from 46 feet to 43 feet and moved further southeast to make room for a new wastewater collection tank. This tank will increase in diameter from 100 feet to 118.5 feet.
- A 49 foot tall wastewater collection tank is added north of the water storage tanks and immediately south of the wastewater treatment area. This tank will be 80 feet in diameter.

- The demineralized water storage tank will increase in height from 36 feet tall to 42 feet tall and be relocated north due to the relocation of the portable demineralized water storage trailers parking area. This tank will remain 70 feet in diameter.
- The two 40-foot-tall zero liquid discharge (ZLD) evaporator towers within the wastewater treatment area are replaced with one ZLD evaporator tower.

STAFF ANALYSIS

- Staff analyzed the petition and determined that there will be no significant impacts as a result of the proposed amendment.
- Staff believes the physical changes are insignificant and will not create a wind shadow on the speculative wind development down wind.
- Staff did not evaluate the thermal effects from the Sentinel exhaust and cooling tower plumes because the plumes are not part of the amendment and have not changed from the original Energy Commission Decision.

PUBLIC PROCESS

- Petition to modify project filed/docketed June 10, 2011.
- Notice of Determination for a Staff Approved Project Modification sent to mail list on June 29, 2011.
- Letter of Objection received on July 11, 2011 and docketed on July 21, 2011.
- Notice of Receipt mailed to the post-certification mailing list and affected public agencies August 4, 2011, posted to the Energy Commission Website, and docketed.
- Staff analysis mailed to interested parties, docketed, and posted to CEC Website August 9, 2011.
- 30-day public comment period ends on September 8, 2011.
- Letter of Objection was withdrawn on September 1, 2011 and docketed and posted on the Energy Commission website on September 6, 2011.

FINDINGS

- The petition meets all the filing criteria of Section 1769(a) concerning post-certification project modifications;
- The modification will not change the findings in the Energy Commission's Final Decision pursuant to 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;

RECOMMENDATION

- Staff recommends that the Energy Commission approve the project modification(s) and associated revisions.