

Nancy Tronaas - PEF Flood Protection

From: "Greg Fenton" <GREGF@co.kern.ca.us>
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Date: 6/9/2005 2:45 PM
Subject: PEF Flood Protection

*PASTORIA ENERGY FACILITY EXPANSION
 (05-AFC-1)*

Nancy,

Regarding the Pastoria Energy Facility (PEF) hydrology and flood protection design issues that were discussed in 2001 between the Kern County Engineering & Survey Services Dept. (KCESSD) and Calpine/URS, a "berm-only" option to protect the entire facility was presented by URS. However, FEMA requires the establishment of a maintenance entity prior to acceptance of a berm as a satisfactory flood protection method. Calpine concluded that there would not be adequate time in the PEF construction schedule to pursue creation of a special maintenance entity. However, Calpine was going to construct the berm anyway, in addition to the County's flood protection requirements.

Therefore, various flood proofing and flood protection design revisions, as required by KCESSD, were incorporated into the final design of PEF based on the varying depth of projected flows described in the hydrological analysis and flood inundation study prepared by URS and approved by KCESSD. These design revisions included flood protection and/or flood proofing measures, such as elevation of foundations/finished floor levels by as much as two feet, as well as flood proofing of all underground electrical vaults.

KCESSD will require that the proposed PEF simple-cycle expansion project will be designed and built with the same flood protection design criteria as the 750 MW combined-cycle project.

I hope this answers your questions. Please let me know if you need additional information.

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| DOCKET | |
| 05-AFC-1 | |
| DATE | _____ |
| RECD. | JUN 09 2005 |