

Complete only applicable items.

3. Document Identifier: 000-00C-MGR0-00500-000-00C	ENG. 20080310.0025	4. Rev.: 00C	5. CACN: 001
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6. Title:
External Events Hazards Screening Analysis

7. Reason for Change:
The revision is required to remove unnecessary units applied to a probability and to correct the conversion from "mm" to "in."

8. Supersedes Change Notice: Yes If, Yes, CACN No.: _____ No

9. Change Impact:

Inputs Changed: Yes No Results Impacted: Yes No

Assumptions Changed: Yes No Design Impacted: Yes No

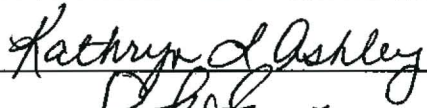
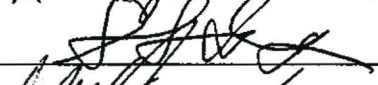
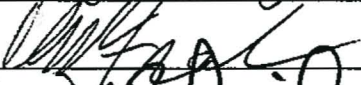
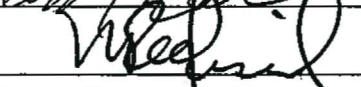

10. Description of Change:
Section 6.5.2 Evaluation
Item 3, 2nd paragraph has been revised to state:

Flood Hazard Curve of the Surface Facility Area in the North Portal Pad and Vicinity (Ref. 2.2.23, Sections 3.2.5, 6.5, and 7) determined that the frequency of the PMF is less than 10⁻⁷ per year. The frequency of the PMF is based on the joint probability of the three major independent events contributing to the PMF. These major independent events are the PMP, the antecedent moisture condition, and the storm orientation and temporal distribution. The exceedance probability of the PMP is estimated to be less than 1.43 × 10⁻⁵/yr. The antecedent moisture condition is assigned a probability of 7.69 × 10⁻⁴ which represents a totally saturated watershed that is developed with an initial condition that a 25-year storm has hit the area prior to the PMP. The storm orientation and temporal distribution is assigned a probability of 0.1 which represents a storm perfectly aligned to the shape of the basin and a temporal distribution optimized with the center of the storm situated in the latter half of the storm. The product of the three parameters results in the joint probability of 1.1 × 10⁻⁹/yr, which is less than the screening criteria of 10⁻⁶ per year.

Section 6.6.2 Item 3, 5th paragraph 3rd sentence:

The analysis shows that if there is a lightning strike and the metal wall thickness of the component is greater than 12 mm (~0.47 in.); the average interior wall temperature under the strike point will not exceed 570°C.

11. REVIEWS AND APPROVAL

Printed Name	Signature	Date
11a. Originator: Kathryn L. Ashley		3/10/08
11b. Checker: Alex Deng		3/10/08
11c. EGS: Michael Frank		3/10/08
11d. DEM: Mark Wisenburg		3/10/2008
11e. Design Authority: Barbara Rusinko	R.J. Tosetti 	3/10/08

R.J. Tosetti
Kla
3/11/08