



**Pacific Gas and
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December 15, 2003

PG&E Letter HIL-03-003

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Docket No. 72-27
Humboldt Bay Independent Spent Fuel Storage Installation
Submittal of Geotechnical and Probability Risk Assessment Calculation Packages

Dear Commissioners and Staff:

By Pacific Gas and Electric Company (PG&E) Letter HIL-03-001, dated December 15, 2003, PG&E submitted an application to the Nuclear Regulatory Commission (NRC) requesting a site-specific license for an Independent Spent Fuel Storage Installation at the Humboldt Bay Power Plant. The application included a Safety Analysis Report, Environmental Report, and other required documents in accordance with 10 CFR 72.

Pertinent geotechnical and probabilistic risk assessment calculations performed in support of the Humboldt Bay ISFSI license application are enclosed as 12 attachments. These calculation packages are intended for use by the NRC staff in their review of the application.

If you have any questions regarding the enclosed information, please contact Mr. Terence Grebel at (805) 545-4160.

Sincerely,

Lawrence F. Womack

gwh

Enclosure

cc: Humboldt Distribution
cc:/enc James R. Hall (8)

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**LIST OF ATTACHED GEOTECHNICAL AND PROBABILISTIC
RISK ASSESSMENT CALCULATION PACKAGES**

1. Development of Maximum Credible Earthquake Magnitudes and Distances for the HBIP
Calculation GEO HBIP 02.03, Revision 0
2. Development of Response Spectra for the HBPP ISFSI
Calculation GEO HBIP 02.04, Revision 0
3. Development of HBIP ISFSI Spectrum Compatible Time Histories
Calculation GEO HBIP 02.05, Revision 0
4. Site Amplification Factors for HBIP
Calculation GEO HBIP 02.06, Revision 0
5. Determination of Potential Earthquake Induced Displacements of Critical Slides at HBIP ISFSI Site
Calculation GEO HBIP 02.07, Revision 1
6. Determination of Potential Earthquake Induced Displacements of Critical Slides Along HBIP ISFSI Transport Route
Calculation GEO HBIP 02.08, Revision 1
7. Development of HBIP ISFSI Refueling Building Spectrum Compatible Time Histories
Calculation GEO HBIP 03.01, Revision 0
8. Amplification Factors for Probabilistic Seismic Hazard Analysis at the HBIP ISFSI Site
Calculation GEO HBIP 03.02, Revision 0
9. Development of Probabilistically Based Spectra for HBIP ISFSI Site
Calculation GEO HBIP 03.04, Revision 0
10. Risk Assessment of Turbine Missiles While Transporting Loaded Casks on the Humboldt Bay Transport Route
Calculation PRA03-12, Revision 0
11. Risk Assessment of Explosive Hazards to the Dry Cask/Spent Fuel Transportation and Storage at the Humboldt Bay ISFS
Calculation PRA03-13, Revision 0
12. Risk Assessment of Aircraft Hazard for Dry Cask/Spent Fuel Transportation and Storage for Humboldt Bay ISFSI
Calculation PRA03-14, Revision 0