



Department of Energy

Office of Civilian Radioactive Waste Management
Office of Repository Development
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QA: N/A
Project No. WM-00011

JUL 16 2003

OVERNIGHT MAIL

ATTN: Document Control Desk
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U.S. Nuclear Regulatory Commission
11555 Rockville Pike
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FREQUENCY ANALYSIS OF AIRCRAFT HAZARDS FOR LICENSE APPLICATION

Reference: Ltr, Ziegler to Schlueter, dtd 7/9/02

This letter transmits the U.S. Department of Energy (DOE) calculation, *Frequency Analysis of Aircraft Hazards for License Application* (Enclosure).

This calculation estimates the crash frequencies for aircraft hazards that are identified for detailed analysis in the report, *Identification of Aircraft Hazards*, which was previously provided to the U.S. Nuclear Regulatory Commission in the reference letter. The purpose of this calculation is to estimate the frequencies of the identified aircraft hazards to the proposed Yucca Mountain repository surface facilities during emplacement operations. The scope of the calculation includes the hazards that are listed in Section 8 of *Identification of Aircraft Hazards*. In addition, hazards from objects dropped from aircraft are considered.

It should be noted that the calculation is based on the site and surface facility layout (for example, dimensions and layout of the surface facilities) that was current at the time the calculation was performed. Since that time, the design has continued to develop. As a result, this analysis will be revised once design decisions affecting the facility footprint are finalized.

The DOE will continue to gather information about aircraft operations. Through periodic contacts with U.S. Air Force representatives from Nellis Air Force Base, the DOE will monitor changes in military aircraft operations over the Nevada Test Site that may occur due to potential changes brought on by the evolving mission of the Nevada Test and Training Range.

The DOE recommends that this analysis be reviewed principally for the methodology, since the actual results are subject to design evolution.

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JUL 16 2003

There are no new regulatory commitments in the body or the enclosure to this letter.

Please direct any questions concerning this letter and its enclosure to Joe C. Price at (702) 794-1441 or Timothy C. Gunter at (702) 794-1343.



Joseph D. Ziegler, Acting Director
Office of License Application & Strategy

OLA&S:TCG-1460

Enclosure:

*Frequency Analysis of Aircraft Hazards for
License Application, CAL-WHS-RL-000001
Rev 00B*

cc w/encl:

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JUL 16 2003

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