



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
612 EAST LAMAR BOULEVARD, SUITE 400
ARLINGTON, TEXAS 76011-4125

March 22, 2011

Pa'ina Hawaii, LLC
ATTN: Michael Kohn
President
P.O. Box 30542
Honolulu, Hawaii 96820

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION

The staff from the U.S. Nuclear Regulatory Commission (NRC) has reviewed the geotechnical report dated February 17, 2011, which was submitted by Pa'ina Hawaii, LLC, in support of the license amendment request for the proposed irradiator facility location at 92-1780V Kunia Road, Kunia, Oahu, Hawaii. The following questions should be addressed by the licensee to provide clarification.

- In the cover letter to the WEIDIG report, dated February 17, 2011, it states that the irradiation chamber can be supported on a **six-inch** thick concrete base slab. In the "Project Description" on page 2 of the report, it states that the pool will be located on a **12-inch** thick foundation slab and that the surge tank will be supported on a **six-inch** thick concrete pad. Please clarify what the planned thickness of the irradiation chamber (pool) and surge tank will be.
- In previous correspondence, details of the construction process were provided which included how the concrete irradiation chamber (pool) foundation would be placed and how the concrete backfill around the exterior of the outer pool wall would be placed. Will this same process be used at the proposed site located at Kunia Road or are alternate construction methods planned?
- On page 6, the subgrade preparation section of the report states that the soils exposed at the subgrade level beneath the proposed surge tank and trolley conveyor column locations should be brought to at least the optimum moisture content and compacted. Please provide additional details of how the soil beneath the proposed surge tank and trolley conveyor column locations will be prepared and tested prior to placing the concrete for the associated foundations.

The NRC staff will continue the technical review upon receipt of adequate answers to the questions proposed above.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Thank you for your cooperation.

Sincerely,

/RA/

Roberto J. Torres, Senior Health Physicist
Nuclear Materials Safety Branch B

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