

June 13, 2008

United States Nuclear Regulatory Commission
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Docket Number 50-27
Facility License Number R-76

The Washington State University Nuclear Radiation Center (WSU/NRC) operates a TRIGA-conversion reactor which utilizes a mixed HEU/LEU core. In accordance with Federal requirements, the WSU/NRC is cooperating with the United States Department of Energy (DOE), DOE contractors at the Argonne National Laboratory (ANL) and Idaho National Laboratory (INL), General Atomics (GA), and the United States Nuclear Regulatory Commission (NRC) to remove HEU fuel from the WSU/NRC, and to replace HEU fuel with LEU fuel in the WSU/NRC nuclear reactor.

This letter is being transmitted by Washington State University (WSU) to the United States Nuclear Regulatory Commission (U.S. NRC) as part of the conversion process. WSU submitted a Safety Analysis Report for conversion from HEU to LEU fuel in August of 2007. The U.S. NRC responded with a Request for Additional Information (RAI). Enclosed with this letter are the Responses to the Request for Additional Information, and supporting documentation.

Washington State University also proposes changes to the Technical Specifications that are applicable to License Number R-76, as part of the process requirements for removal of HEU fuel from the reactor, and replacing the HEU with LEU fuel. The Safety Analysis Report (SAR) describing the proposed changes is attached to this letter. General Atomics provided the technical analysis for the SAR.

The following documents are included with this letter:

1. Response to Request for Additional Information
2. A revised version of the Safety Analysis Report (dated June 2008, including changes arising from the RAI resolution)
3. The TAC2D code users' manual

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4. The BLOOST code users' manual
5. Proposed Technical Specification Revisions
6. Kinetic Behavior of TRIGA Reactors
7. AREVA Documentation for Washington Fuel Elements (source inspection reports)
8. WSU Receipt Inspection Reports

I declare under penalty of perjury that the foregoing is true to the best of my knowledge.

Respectfully Submitted

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Director

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