

UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 20555-0001

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September 16, 1996

70-1257

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Mr. L. J. Maas Manager, Regulatory Compliance Siemens Power Corporation 2101 Horn Rapids Road Richland, Washington 99352-0130

SUBJECT: POSSESSION OF URANIUM ENRICHED TO GREATER THAN 5 WEIGHT PERCENT IN U-235 (TAC NO. L21656)

Dear Mr. Maas:

This letter is in response to your letters dated April 5, and May 17, 1996, concerning possession of uranium enriched to greater than 5 weight percent in the isotope U-235 and the analytical bases for control of such material. The issues in your letters were further discussed in a conference call on May 17, 1996.

NRC staff have determined that the information in your letters and the commitments proposed in your amended renewal application are insufficient to demonstrate that material at the higher enrichment can be handled and processed safely at SPC's Richland Engineering and Manufacturing Facility. To analyses based upon adequate benchmarked data. The staff is concerned that such as those with dry oxide powders, with U-235 enrichments above 5% and for systems using uranium enriched to greater than 5 weight percent could be acceptable for overmoderated solutions, where there is no likelihood of uncertainty.

As a result of this determination, NRC plans to proceed with the renewal of SNM-1227 to authorize the possession and use of 350 grams of uranium of any uranium compounds in any form enriched to a maximum of 5 weight percent in the U-235 isotope, and plutonium in sealed sources and standards and as stored waste.

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PDR

L. Maas

If you have further questions regarding this matter, please call Mary Adams at (301) 415-8111.

Sincerely,

Original signed by:

Robert C. Pierson, Chief Licensing Branch Division of Fuel Cycle Safety and Safeguards, NMSS

Docket 70-1257 License SNM-1227

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