

July 26, 2007

Mr. Robert E. Link, Manager  
Environmental, Health, Safety  
and Licensing  
AREVA NP, Inc.  
2101 Horn Rapids Road  
Richland, WA 99352-0130

SUBJECT: REPLY TO PROPOSED USAGE OF INTERNATIONAL COMMISSION ON  
RADIOLOGICAL PROTECTION 66 IN DETERMINATION OF SOLUBLE  
URANIUM INTAKE THRESHOLD (TAC L31856)

Dear Mr. Link:

The U.S. Nuclear Regulatory Commission (NRC) received and reviewed your letter dated July 10, 2007, in which you proposed the use of the model in International Commission on Radiological Protection 66 to derive the systemic burden of 0.3 mg/kg body weight as referenced in Table 2, Page 3 of NUREG-1391.

The NRC staff determined that the proposed value (i.e., intake of 75 mg or greater) corresponding to the threshold for permanent renal damage is consistent with a high consequence event to a worker as defined in 10 CFR 70.61(b)(4)(i). Based on the review, this represents a satisfactory response to the Request for Additional Information question Ch.29.

Please inform us of the impact to the Integrated Safety Analysis Summary (number of scenarios affected and estimated date of any revisions).

If you have any questions regarding this letter, please contact Merritt N. Baker of my staff at (301) 415-6155, or via e-mail to [MNB@nrc.gov](mailto:MNB@nrc.gov).

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 through the Publicly Available Records component of NRC's Agencywide Document Access and Management System. ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Sincerely,

/RA/

Peter J. Habighorst, Chief  
Fuel Manufacturing Branch  
Division of Fuel Cycle Safety  
and Safeguards  
Office of Nuclear Material Safety  
and Safeguards

Docket No.: 70-1257  
License No.: SNM-1227

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Sincerely,

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Peter J. Habighorst, Chief  
Fuel Manufacturing Branch  
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