

November 16, 2010

Mr. Gerard Couture  
Licensing Project Manager  
Westinghouse Electric Company  
Nuclear Fuel - Columbia Site  
5801 Bluff Road  
Columbia, SC 29250

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING AN AMEMDMENT  
TO TRANSFER NATURAL URANIUM HEXAFLUORIDE AND BYPRODUCT  
POSSESSION LIMITS OF THE STATE RADIOACTIVE MATERIAL LICENSE TO  
THE U.S. NUCLEAR REGULATORY COMMISSION'S LICENSE SNM-1107  
(TAC NO. L33020)

Dear Mr. Couture:

We have completed our review of your application for an amendment dated September 7, 2010, to transfer the possession limits of natural uranium hexafluoride and byproduct material of the South Carol Radioactive Material License to the U.S. Nuclear Regulatory Commission's (NRC) special nuclear material license. Our review of your application has identified that additional information is needed before final action can be taken on your submittal.

The additional information, specified in the enclosure, should be provided within 30 days from the date of this letter.

Pending additional information, which answers the Request for Additional Information, we anticipate completing our review by the end of March 2011. This date could change depending on the findings of our technical review, urgent assignments, or other factors. We will promptly communicate any significant changes to this schedule.

In accordance with Title 10 of the *Code of Federal Regulations* 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 Publically Available Records component of the NRC's document system (Agencywide Documents Access and Management System [ADAMS]). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

If you have any questions regarding this matter, please contact me at (301) 492-3189 or via e-mail at [christopher.ryder@nrc.gov](mailto:christopher.ryder@nrc.gov). Please reference the above TAC No. in future correspondence related to this request.

Sincerely,

**/RA/**

Christopher Ryder, Project Manager  
Fuel Manufacturing Branch  
Division of Fuel Cycle Safety  
and Safeguards  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 70-1151  
License No. SNM-1107

Enclosure:  
Request for Additional Information

If you have any questions regarding this matter, please contact me at (301) 492-3189 or via e-mail at [christopher.ryder@nrc.gov](mailto:christopher.ryder@nrc.gov). Please reference the above TAC No. in future correspondence related to this request.

Sincerely,

**/RA/**

Christopher Ryder, Project Manager  
Fuel Manufacturing Branch  
Division of Fuel Cycle Safety  
and Safeguards  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 70-1151  
License No. SNM-1107

Enclosure:  
Request for Additional Information

**DISTRIBUTION:**

FFLD r/f  
M. Baker  
M. Thomas, Region II

**ML103020209**

<b>OFFICE</b>	FFLD	FFLD	FFLD
<b>NAME</b>	CRyder	LAllen	PHabighorst
<b>DATE</b>	10/29/10	11/4/10	11/15/10

**OFFICIAL RECORD COPY**

REQUEST FOR ADDITIONAL INFORMATION TO  
TRANSFER POSSESSION LIMITS OF NATURAL URANIUM HEXAFLUORIDE  
AND BYPRODUCT MATERIAL  
FROM THE STATE RADIOACTIVE MATERIAL LICENSE  
TO THE U.S. NUCLEAR REGULATORY COMMISSION'S  
SPECIAL NUCLEAR MATERIAL LICENSE

1) Revise the Integrated Safety Analysis (ISA) Summary to include the location of the source and byproduct material used at the facility. State, for example, in the beginning of the ISA, that the inventory of uranium hexafluoride includes both enriched and natural uranium. Also address the byproduct material. Be sure that the revision appears in the annual update to the ISA per 70.72(d)(3).

Source material needs to be appropriately stored to prevent consequences exceeding the performance requirements of 70.61. NUREG-1520, Chapter 3, ISA and ISA Summary, states that the ISA Summary should provide the list of materials (radioactive, fissile, flammable, and toxic), including the maximum intended inventory amounts and locations of the hazardous materials at the facility.

2) Clarify that the hazard (chemical, fire) evaluation associated with the use of uranium hexafluoride includes both enriched and natural uranium. Also address the byproduct material. During the annual ISA update, revise the ISA Summary accordingly.

Regulations in Title 10 of the *Code of Federal Regulations* §70.62, "Safety Program and Integrated Safety Analysis" states that the licensee shall conduct and maintain an ISA that identifies chemical hazards associated of licensed material and hazardous chemicals produced from license material. §70.65(b)(4) states that the ISA Summary must contain information that demonstrate license compliance with the performance requirements of §70.61.