

September 15, 2011

Mr. Gerard Couture, Manager
Licensing and Regulatory Programs
Westinghouse Electric Company, LLC
Nuclear Fuel
Columbia Fuel Site, Drawer R
Columbia, SC 29250

SUBJECT: AMENDMENT 12: REVISION 41A OF THE FUNDAMENTAL NUCLEAR
MATERIAL CONTROL PLAN, REVISION 39 OF THE PHYSICAL SECURITY
PLAN, NUCLEAR CRITICALITY SAFETY IMPROVEMENT PROGRAM – II, AND
CLARIFICATIONS

Dear Mr. Couture:

In accordance with the applications to revise the Physical Security Plan (PSP) and the Fundamental Nuclear Material Control (FNMC) Plan, and pursuant to Part 70 to Title 10 of the *Code of Federal Regulations* (10 CFR), Materials License SNM-1107 is hereby amended to include Revision 39 of the PSP, Revision 41a of the FNMC Plan, and the second nuclear criticality safety improvement program (NCSIP-II).

Revision 39 of the PSP had been approved in a letter dated April 18, 2011. This letter approves Revision 41a of the FNMC Plan.

The following conditions of the special nuclear material license SNM-1107 have been changed as indicated:

Regarding the FNMC Plan, Safeguards Condition SG-1.1 now reads:

The licensee shall follow Chapters 1.0 through 9.0 of its "Fundamental Nuclear Material Control Plan for the Columbia Fuel Fabrication Facility," which has been revised as indicated by Revision 41 and 41a, dated March and July 2011, respectively. Any further revision to this Plan shall be made only in accordance with, and pursuant to, either the provisions of 10 CFR 70.32(c) or 70.34.

Regarding the PSP, Safeguards Condition SG-2.1 now reads:

The licensee shall follow the physical protection plan entitled, "Physical Security Plan," Revision 39, dated February 18, 2011, and as it may be further revised in accordance with the provisions of 10 CFR 70.32(e).

Enclosures 1 and 4 contain security-related information. When separated from Enclosures, this letter is decontrolled.

Regarding the NCSIP-II described in a letter dated August 26, 2010 (ADAMS Accession Number ML102440107), Safety Condition S-7 has been added:

The licensee shall complete the Nuclear Criticality Safety Improvement Project - II (NCSIP-II) as outlined in LTR-RAC-10-54 by December 31, 2012. The licensee will provide quarterly status reports to the NRC providing the status of key project deliverables. The quarterly status reports will be formally sent to the NRC Document Control Desk. The Integrated Safety Analysis Summary will be revised to reflect the changes resulting from the NCSIP-II by no later than the January 31, 2013, as part of the annual submittal as required by 10 CFR 70.72(d)(2).

The following clarifications have been made. First, in Safety Condition S-1, a typographical error is corrected. The S-1 condition now reads:

Authorized Use: For use in accordance with statements, representations, and conditions in the license application, dated June 27, 2007; or as revised, pursuant to 10 CFR 70.32 or 10 CFR 70.72, and the supplements, dated July 18, 2007; September 13, 2007; April 21, 2008; June 10, 2008; September 30, 2008; August 30, 2010; October 4, 2010; September 7, 2010; November 22, 2010; December 15, 2010; January 11, 2011; February 22, 2011; April 8, 2011; and April 28, 2011.

Second, in Safety Condition S-6, a revision is made to address ambiguities identified in an e-mail from Westinghouse to NRC, dated August 11, 2011 (Agencywide Document Access Management System [ADAMS] Accession Number ML112340758). Safety Condition S-6 now reads:

For nuclear criticality safety, as changes are implemented in the second Nuclear Criticality Safety Improvement Program (NCSIP-II) and other future such programs, the licensee shall incorporate justification for determining that accident sequences are incredible, specifically listing which item under Section 1.1.6.22 of the Application applies and a justification for using the item, documented in sufficient detail so that results can be reviewed.

The revision to both the PSP and the FNMC Plan do not decrease the effectiveness of either plan. Therefore, a review under the National Environmental Policy Act, per 10 CFR Part 51.22, is not required.

All other conditions of this license shall remain the same. Enclosed are copies of the revised Materials License SNM-1107 and the Safety Evaluation Reports.

This letter both concludes the action on Amendment 12 and closes the assigned Technical Assignment Control (TAC) Number L33124. The TAC number for the review of Revision 39 of the PSP had been previously closed.

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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 Publicly Available Records System component of the NRC's 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 Christopher Ryder of my staff at 301-492-3189, or via e-mail to Christopher.Ryder@nrc.gov.

Sincerely,

/RA/

Robert K. Johnson, Chief
Fuel Manufacturing Branch
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

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

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Enclosures:

1. Materials License SNM-1107 (Non-Public Version)
2. Materials License SNM-1107 (Public Version)
3. Safeguards Evaluation Report of the Physical Security Plan, Revision 39
4. Safeguards Evaluation Report of the FNMC Plan, Revision 41a

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 Publicly Available Records System component of the NRC's 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 Christopher Ryder of my staff at 301-492-3189, or via e-mail to Christopher.Ryder@nrc.gov.

Sincerely,

/RA/

Robert K. Johnson, Chief
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