

[REDACTED]

DOCKET: 70-1201
LICENSEE: AREVA NP, Inc.
Lynchburg, VA
SUBJECT: SAFETY EVALUATION REPORT FOR AMENDMENT 12- APPROVAL OF
REVISION 19 OF THE FUNDAMENTAL NUCLEAR MATERIAL CONTROL
PLAN FOR SNM-1168 (TAC L31977)

BACKGROUND

By cover letter dated November 27, 2006, AREVA NP, Inc. submitted Revision 19 of its Fundamental Nuclear Material Control (FNMC) Plan. The submittal included an attachment describing the changes made in the FNMC Plan, and the FNMC Plan in its entirety with a new effective date and revision number. Revision 19 to the FNMC Plan was submitted under the provisions of 10 CFR 70.32(c)(1)(iii), which does not require Nuclear Regulatory Commission (NRC) approval prior to implementation for changes that result in no decrease in effectiveness of the licensee’s material control and accounting (MC&A) program.

DISCUSSION

The November 2006 submittal contains changes to the AREVA NP, Inc. Lynchburg FNMC Plan. In general, the FNMC Plan was revised throughout to incorporate the name change from “Framatome ANP, Inc.” to “AREVA NP, Inc.” In addition, Chapter 4 was revised to reflect the improved accuracy of new scales that will be utilized for measuring special nuclear materials at the facility. Changes were also made in Chapter 6 to [REDACTED].

The specific FNMC Plan revisions follow:

Chapter 4: MC&A Measurement and Measurement Control

The three changes on pages 4-3 and 4-4 of the revised FNMC Plan involve mass determinations. These revisions are:

- 1) The description for W-1 reflects a change from a scale with a discrimination of 1 gram, to a scale with a discrimination of 0.1 grams.

[REDACTED]

[REDACTED]

- 2) The description for W-2 reflects a change from a scale with maximum capacity of 100 kilograms and a discrimination of 10 grams, to a scale with a maximum capacity of 60 kilograms and a discrimination of 5 grams.
- 3) The description for W-6 reflects a change from a scale with a discrimination of 1 gram, to a scale with a discrimination of 0.1 grams.

Chapter 6: Item Control Program

The revisions on pages 6-8 through 6-9 delete the generic [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

ENVIRONMENTAL PROTECTION

The NRC staff has determined that the revisions to the FNMC Plan are modifications to the systems used for materials accountability. 10 CFR 51.22(c)(12) allows for a categorical exclusion for the issuance of a license amendment relating solely to safeguards matters, including the protection of loss or diversion of special nuclear material, provided that the amendment does not involve any significant construction impacts, and that the amendment is confined to the types listed in 10 CFR 51.22(c)(12)(i) through (iv). The approval for “modifications to systems used for materials accountability” appears in this list as item (ii).

There are no changes in the types of, or increases in the amounts of, effluents. Occupational exposure is expected to remain the same. These changes involve no additional construction activity. The potential for, and consequences from radiological accidents are expected to be the same. Thus, there is no significant impact to the environment.

Based on this evaluation, the action creating Revision 19 of the FNMC Plan is eligible for the categorical exclusion under 10 CFR 51.22(c)(12). Therefore, in accordance with 10 CFR 51.22, neither an Environmental Assessment nor an Environmental Impact Statement is required for this action.

CONCLUSION

The NRC staff found that the changes made in Revision 19 of the FNMC Plan are not inconsistent with the regulatory requirements in Subpart C of 10 CFR Part 74. The staff concluded that the changes to the facility’s FNMC Plan meet the requirements of 10 CFR 70.32(c)(1)(iii) in that they do not decrease the effectiveness of the MC&A program, or the measurement control program, implemented pursuant to 10 CFR 74.31(b), and that the revised FNMC Plan continues to provide an effective MC&A program at AREVA-NP, Inc., Lynchburg.

[REDACTED]



Thus, the existing license Safeguards Condition SG-1.1 should be reissued to reflect the current FNMC Plan as follows:

SG-1.1 The licensee shall follow Chapters 1.0 through 9.0 of its “Fundamental Nuclear Material Control Plan,” Revision 19, dated November 27, 2006. This Plan may be further revised in accordance with, and pursuant to, the provisions of either 10 CFR 70.32(c) or 70.34.

PRINCIPAL CONTRIBUTORS

- Thomas A. Grice
- Michael F. Kelly
- Thomas N. Pham
- M. Breedon Reilly

