

Docket No. 70-36
License No. SNM-33
Amendment No. 16

DEC 20 1989

Combustion Engineering, Inc.
ATTN: Mr. J. A. Rode, Plant Manager
Hematite Fuel Manufacturing
P.O. Box 107
Hematite, MO 63047

Gentlemen:

In accordance with the amendment application dated November 8, 1989, and pursuant to Title 10, Code of Federal Regulations, Part 70, Materials License No. SNM-33 is hereby amended to authorize the possession and use of Americium-241 contained in calibration sources. Accordingly, Condition 9 is revised to include the date of November 8, 1989, and Conditions 6.E., 7.E., and 8.E., are added as follows:

6.E. Americium-241 7.E. Solid sources 8.E. 200 microcuries

All other conditions of the license shall remain the same.

Revised License No. SNM-33, incorporating Amendment No. 16, and our Safety Evaluation Report are enclosed.

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed By:

Glen L. Sjoblom, Acting Chief
Fuel Cycle Safety Branch
Division of Industrial and
Medical Nuclear Safety, NMSS

Enclosures:

- 1. Revised License No. SNM-33
- 2. Safety Evaluation Report

cc w/encls:

Mr. A. E. Scherer, Director
Nuclear Licensing

Mr. C. B. Brinkman, Manager
Washington Nuclear Operations

Mr. C. R. Waterman, Acting Vice President
Nuclear Fuel

Mr. H. E. Eskridge, Manager
Licensing, Safety and Accountability

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DOCKET NO: 70-36
LICENSEE: Combustion Engineering, Inc. (CE)
Hematite, Missouri
SUBJECT: SAFETY EVALUATION REPORT, AMENDMENT APPLICATION DATED NOVEMBER 8, 1989, RE AUTHORIZATION TO POSSESS AND USE CALIBRATION SOURCES CONTAINING AMERICIUM-241

Background

On November 8, 1989, CE submitted an application for license amendment requesting authorization to possess and use calibration sources containing 200 microcuries of Americium-241.

Discussion

On November 24, 1989, Materials License No. SNM-33 was amended authorizing CE to use enriched uranium in the Building 254 pellet production system. CE plans to use gamma spectroscopy in this new production process. In order to do this, a radioactive source is required to calibrate the spectrometer prior to placing the spectrometer in operation. The staff has determined that the present radiological safety program is adequate to control the use of Americium-241. Therefore, to accommodate this request, it is recommended that Conditions 6.E., 7.E., and 8.E., be added as follows:

6.E. Americium-241 7.E. Solid sources 8.E. 200 microcuries

This licensing action is in accordance with 10 CFR 51.22(c)(14)(x), and therefore, neither an Environmental Impact Statement nor an Environmental Assessment is warranted for this action.

Conclusion/Recommendation

Staff finds that the proposed change to the license will have no adverse effect on the public health and safety or the environment. Approval of the amendment application is recommended.

The Region III Principal Inspector has no objection to this proposed action.

Original Signed By:

David A. McCaughey
Uranium Fuel Section
Fuel Cycle Safety Branch
Division of Industrial and
Medical Nuclear Safety, NMSS

Approved by: George H. Bidinger
George H. Bidinger, Section Leader

OFC:IMUF:	IMUF: <i>SS</i>	IMUF:	IMUF: <i>SS</i>
NAME: DAMcCaughey:mh	SSoong:	VLTharpe:	GHBidinger:
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