

R

DEC 30 1983

## MATERIALS LICENSE

ursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s); and to import such byproduct and source material. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

## Licensee

1. Combustion Engineering, Inc.

3. License number **SMM-33**  
(As renewed)

CCPV

2. P.O. Box 107  
Hematite, Missouri 630474. Expiration date **December 31, 1988**5. Docket or  
Reference No. **70-36**6. Byproduct, source, and/or  
special nuclear material7. Chemical and/or physical  
form8. Maximum amount that licensee  
may possess at any one time  
under this licenseA. Uranium enriched to  
maximum 4.1 weight  
percent in the U-235  
isotope

A. Any, excluding metal

A. 8,000 kilograms  
contained U-235B. Uranium, any U-235  
enrichmentB. Any, excluding metal  
powder

B. 350 grams

C. Source material

C. Uranium and/or Thorium  
any, excluding metal  
powder

C. 20,000 kilograms

D. Cobalt-60

D. Sealed Sources

D. 40 millicuries,  
total

9. Authorized Use:

For use in accordance with statements, representations, and conditions contained in Part I of the licensee's renewal application dated February 26, 1982, and supplements dated July 21, 1982 and February 21, 1983.

10. Authorized Place of Use:

The licensee's existing facilities in Hematite, Missouri, as described in the referenced license renewal application.

11. Quarterly inspections by the Supervisor, NLS&A or his representative shall be pre-planned and shall be documented. Such documentation shall be maintained for 2 years.

7A-28

COPY

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

DEC 30 1983

License number

SM-33 (as renewed)

Docket or Reference number

70-36

COPY

2. A written report shall be made by the NLS&A Supervisor to the Plant Manager every 6 months reviewing employee radiation exposure (internal and external) and effluent release data to determine:
  - a. if there are any upward trends developing in personnel exposure for identifiable categories of workers, types of operations, or in effluent releases,
  - b. if exposures and releases can be lowered in accordance with the ALARA commitment, and
  - c. if equipment for effluent and exposure control is being properly used, maintained, and inspected.
3. The licensee shall leak test sealed sources in accordance with the enclosed "License Condition For Leak Testing Sealed Byproduct Material Sources".
4. Release of equipment and material from the plant site or to clean areas onsite shall be in accordance with the enclosed "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source or Special Nuclear Material," dated July 1982.
- Pursuant to 10 CFR 20.302, the licensee is authorized to treat or dispose of waste and scrap materials containing uranium enriched in U-235 and/or source material by incineration.
6. Within 60 days of the date of this license renewal, the licensee shall submit to the NRC a description of a proposed monitoring program to determine the quantity and environmental effects of radioactivity on spent limestone rock used as onsite fill material and to determine the environmental effects of outdoor storage of the alpha-contaminated material.
7. The licensee shall survey spent limestone rock discharge from each HF scrubber for beta contamination. Rock with beta contamination which exceeds five times the background of fresh rock shall not be used for landfill.
8. Within 60 days of the date of this license renewal, the licensee shall submit to NMSS a plan, including schedule, for the disposal of alpha-contaminated spent limestone rock.
9. The licensee shall decommission the evaporation ponds as soon as reasonably achievable. Within 90 days of the date of this license, the licensee shall submit a proposed decommissioning plan for NRC approval. The plan shall include decommissioning criteria, a schedule for decommissioning, and a demonstration that the schedule provides for decommissioning as soon as reasonably achievable. - amended - Oct 3, 1984
10. a. If the radioactivity in plant gaseous effluents exceeds 150  $\mu$ Ci per calendar quarter, the licensee shall, within 30 days, prepare and submit to the Commission a report which identifies the cause for exceeding the limit and the corrective actions to be taken by the licensee to reduce the release rates. If the parameters important to a dose assessment change, a report shall be submitted within

COPY

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

SM-33 (as renewed)

Docket or Reference number

70-36

COPY

DEC 30 1983

30 days which describes the changes in parameters and includes an estimate of the resultant change in dose commitment.

- b. In the event that the calculated dose to any member of the public in any consecutive 12-month period is about to exceed the limits specified in 40 CFR 190.10, the licensee shall take immediate steps to reduce emissions so as to comply with 40 CFR 190.10. As provided in 40 CFR 190.11, the licensee may petition the Nuclear Regulatory Commission for a variance from the requirements of 40 CFR 190.10. If a petition for a variance is anticipated, the licensee shall submit the request at least 90 days prior to exceeding the limits specified in 40 CFR 190.10.
21. The licensee shall maintain and execute the response measures of his Radiological Contingency Plan submitted to the Commission on January 27, 1982, and revised on September 3, 1982. The licensee shall also maintain implementing procedures for his Radiological Contingency Plan as necessary to implement the plan. The licensee shall make no change in his Radiological Contingency Plan that would decrease the response effectiveness of the Plan without prior Commission approval as evidenced by a license amendment. The licensee may make changes to his Radiological Contingency Plan without prior Commission approval if the changes do not decrease the response effectiveness of the Plan. The licensee shall maintain records of changes that are made to the Plan without prior approval for a period of 2 years from the date of the change and shall furnish the Chief, Uranium Fuel Licensing Branch, Division of Fuel Cycle and Material Safety, NMSS, U.S. Nuclear Regulatory Commission, Washington, DC 20555, and the appropriate NRC Regional Office specified in Appendix D of 10 CFR Part 20, a report containing a description of each change within 6 months after the change is made.
22. At the end of the plant life, the licensee shall decontaminate the facilities and site in accordance with the general decommissioning plan submitted in the enclosure to the letter dated January 12, 1979, so that these facilities and grounds can be released to unrestricted use. The financial commitment to assure that funds will be available for decommissioning, in the letter dated March 8, 1979, is hereby incorporated as a condition of the license.

<sup>1</sup>The report or petition should be submitted to the Director, Office of Nuclear Material Safety and Safeguards with a copy to the Regional Administrator of Region III.

FOR THE NUCLEAR REGULATORY COMMISSION

Date: \_\_\_\_\_

By: \_\_\_\_\_

Original Signed By:

Ralph G. ...

Division of Fuel Cycle and  
Material Safety  
Washington, DC 20555

COPY

97H  
12/27/83  
10TC  
12/29/83  
12/29/83  
12/30/83