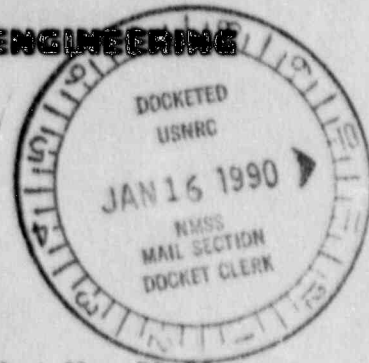
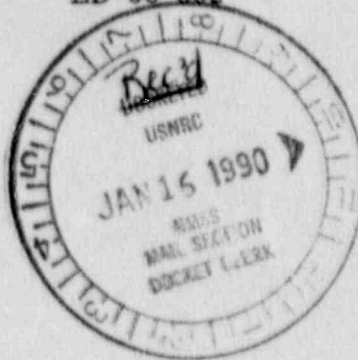


COMBUSTION ENGINEERING



January 12, 1990
LD-90-002



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

Mr. Glenn L. Sjoblom, Acting Chief
Fuel Cycle Safety Branch
Division of Industrial and
Medical Nuclear Safety
Office of Nuclear Material
Safety and Safeguards
U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Subject: Revision To License Amendment Request

Reference: Letter LD-90-001, A. E. Scherer (C-E) to
G. L. Sjoblom (NRC), dated January 3, 1990

Dear Mr. Sjoblom:

In the Reference, Combustion Engineering submitted an amendment request containing additional results from nuclear criticality analyses on the pelletizing lines in Building 254 at Combustion Engineering's Fuel Manufacturing Facility in Hematite, Missouri. Following discussions with Nuclear Regulatory Commission staff, it was determined that additional definition of the intended pelletizing operations is needed. Accordingly, this submittal revises the Reference to add limitations to Part I of the license application that specify the allowable amount of UO₂ and moderator on the second and third floors, the configuration of UO₂ on the second and third floors and the allowable amount of UO₂ in the poreformer mixer for the pelletizing lines in building 254.

Forwarded herewith are Enclosure I, containing a list of the affected pages, and Enclosure II, containing the replacement page. Six (6) copies of Enclosures I and II are included for your use.

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Combustion Engineering, Inc.

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addit info 26266

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Mr. G. L. Sjoblom
January 12, 1990

LD-90-002
Page 2

If I can be of any assistance in this matter, please feel free to call me or Mr. J. F. Conant of my staff at (203) 285-5002.

Very truly yours,

COMBUSTION ENGINEERING, INC.

S. A. Telle

for

A. E. Scherer
Director
Nuclear Licensing

AES:jeb

Enclosures: As Stated

cc: G. M. France, III (NRC - Region III)
D. A. McCaughey (NRC)

COMBUSTION ENGINEERING, INC.
HEMATITE NUCLEAR FUEL MANUFACTURING FACILITY
REQUEST FOR LICENSE AMENDMENT
LIST OF AFFECTED PAGES

JANUARY 12, 1990

Hematite Nuclear Fuel Manufacturing Facility

Request for License Amendment

Combustion Engineering requests that License SNM-33 for its Nuclear Fuel Manufacturing Facility be amended with the page in Enclosure II. This page provides additional criteria to limit the amount and configuration of UO2 on the second and third floors and in the poreformer mixers in Building 254.

The license application page affected by this amendment request is as follows. The changed page is contained in Enclosure II.

LIST OF AFFECTED PAGES

<u>Deleted Page</u>			<u>Added Page</u>		
<u>Page No.</u>	<u>Date</u>	<u>Rev.</u>	<u>Page No.</u>	<u>Date</u>	<u>Rev.</u>
I.4-6a	11/8/89	2	I.4-6a	1/12/90	3

COMBUSTION ENGINEERING

HEMATITE NUCLEAR FUEL MANUFACTURING FACILITY

REQUEST FOR LICENSE AMENDMENT

PROPOSED LICENSE AMENDMENT PAGES

JANUARY 12, 1990

- o) Dual independent verifications of moisture content in UO_2 shall be made prior to transfer of material into the bulk storage hoppers or into the blenders in Building 254.
- p) All moderation controlled containers shall be covered such that no moderator can enter the container when external to protective hoods.
- q) The number of 5 gallon or less containers allowed on the second and third floors of Building 254 shall be limited as follows: lubricant and/or poreformer, 12 on each floor; UO_2 powder, 24 spaced on 2 foot centers on each floor. Additionally, 5 gallon or less containers of water, cleaning solutions or powder moderators (exclusive of lubricant and poreformer) in storage or use will be limited to two on the second floor and two on the third floor when the poreformer or lubricant mixing operations have material in process.
- r) UO_2 powder charges added to each poreformer mixer in Building 254 shall not exceed 4.4 Kg U-235.

4.2.4 Limits for Safe Individual Units (SIUs)

Table 4.2.4

Safe Individual Unit Limits for $\leq 5.0\%$ enriched UO_2 at optimum moderation. All Mass and Volume limits have been adjusted to provide constant spacing areas for the enrichment shown. Heterogeneous limits have been developed with optimum rod sizes taken to allow for pellet chips, etc.

Nominal Enrichment	MASS LIMITS			
	<u>HOMOGENEOUS</u>		<u>HETEROGENEOUS</u>	
	Kg UO_2	f ⁽¹⁾	Kg UO_2	f ⁽¹⁾
- 2.5% U-235	54	.19	50	.26
>2.5 - 3.0% U-235	41	.23	38	.29
>3.0 - 3.2% U-235	36	.23	36	.29
>3.2 - 3.4% U-235	35	.25	33	.29
>3.4 - 3.6% U-235	32	.26	30	.30
>3.6 - 3.8% U-235	28	.26	27	.29
>3.8 - 4.1% U-235	24	.25	24	.27
>4.1 - 4.3% U-235	22	.26	22	.27
>4.3 - 4.5% U-235	20	.27	20	.27
>4.5 - 4.7% U-235	18	.26	18	.27
>4.7 - 5.0% U-235	16	.27	16	.27

DOCKET NO. 70-36
CONTROL NO. 26266
DATE OF DOC. Jan. 12, 1990
DATE RCVD. Jan. 16, 1990
FCUF PDR
FCAF _____ LPDR _____
I & E REF.
SAFEGUARDS
FCTC OTHER _____
DATE 1/16/90 INITIAL JAC