

JAN 27 1993

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

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

Gentlemen:

This refers to your application dated August 5, 1992, requesting amendment of Materials License No. SNM-33 for consolidating operations.

Our review of your application identifies additional information that is needed before final action can be taken on your request. The additional information, specified in the enclosure, should be provided within 30 days of the date of this letter.

If you have any questions regarding this matter, please contact Sean Soong of my staff at (301) 504-2604.

Sincerely,

Original Signed By:

Michael Tokar, Section Leader
Uranium Fuel Section
Fuel Cycle Safety Branch
Division of Industrial and
Medical Nuclear Safety, NMSS

Enclosure: Request for Additional Information

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Request for Additional Information
Application Dated August 5, 1992
Combustion Engineering, Inc.
Docket No. 70-36

General

References to Table I.4.2.4, Part B, should be clarified throughout the report to indicate which operational limits are used.

Design features used for moderation control should be established in Part I.

Surveillance for designs used as nuclear criticality safety controls should be further discussed in Part II, such as Section 8.3.7.6 which discusses access ports provided on the pipe bridge to allow for periodic inspection.

Please clarify that the transport vehicle route in Figure 11.8.3-21 will not be in contaminated areas.

Specific

Page

Comment

I.4-5

In Section 4.2.3 (d), techniques should be established regarding fire fighting training.

I.4-6a

Section 4.2.3 (s) should specify the two barriers against criticality.

In Section 4.2.3 (t), the design specifications for the Kardex unit and separation criteria should be provided. Also, the barriers preventing the ingress of water should be prescribed.

I.4-6a(1)

In Section 4.2.3 (u), the minimum separation distance should be specified or the distance in Section 4.2.7 should be referenced.

Section 4.2.3 (v) should specify the barriers preventing the ingress of water. Also, moderation limits should be established or "unnecessary moderating media" should be explicitly defined.

<u>Page</u>	<u>Comment</u>
I.4-6a(3)	The definition of "loose packed rods" should include the limits on rod diameter.
I.4-6a(4)	The text referenced in Note (3) of Table I.4.2.4 should be identified.
I.4-10	The structural integrity requirements mentioned in Section 4.2.10 should be established. Design criteria used to ensure structural integrity should be provided in Part I, and the techniques used for the inspection of structural integrity should be described in Part II.
II.8-11aa(2)	The mass limit of 20 kilograms discussed in Section 8.3.7.1.2 contradicts the mass limit of 16 kilograms specified in Table I.4.2.4; please clarify.
II.8-11aa(3)	Moderation controls, such as the open faced hood structure design and design of the working surfaces to rapidly drain water, should be established in Part I.
II.8-11aa(12)	The adequacy of controls to prevent the accumulation of water is not fully supported. Procedures and surveillance requirements should be identified to substantiate the adequacy of the barriers that minimize the potential sources of water. The moderation controls should be established in Part I.
II.8-11aa(14)	The design of the cooling section of the oven should be established as a moderation control in Part I.
II.8-11aa(38)	The design specifications of the pellet storage locations should be established in Part I.
II.8-11aa(44)	Limits on the amount of equivalent water for moderator sources that can be present in the form of lubricants and plastic should be established in Part I.
II.8-11aa(46)	The safety factor of three in structural design should be established in Part I.
II.8-11aa(51)	The calculation and assumptions should be provided to show that the flow rate from the water line is insufficient to result in a water depth throughout the room greater than the slab limits in Table I.4.2.4.

<u>Page</u>	<u>Comment</u>
II.8-11aa(58)	The mechanical device employed to ensure the 1 foot separation distance should be identified.
II.8-11aa(73)	The internal dimension of the prestack box exceeds that specified in Table I.4.2.4; please identify the control used to maintain the safe slab limit. The design specifications of the fuel rod storage box matrix should be established in Part I.
II.8-11aa(74&75)	The moderation controls for the rod box storage should be established in Part I.
II.8-11aa(76)	The separation criteria for the rod box storage should be established in Part I.
II.8-11aa(77)	A limit on the polyethylene templates should be established.
II.8-11aa(84)	The safety factor used in structural design for rod box storage should be established in Part I.
II.8-11aa(86)	Limits on the number of fuel rods and design of the fuel bundle cage structure should be established in Part I.
II.8-11aa(87)	The nozzle flow rate and water pressure for the spray box should be specified.