

71-9086

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*Return to
A Macdonald
396-55*

AUG 27 1982

FCTC:CEW
71-9086

Hittman Nuclear & Development Corp.
ATTN: Mr. Charles W. Mallory
9190 Red Branch Road
Columbia, MD 21045

Gentlemen:

This refers to your consolidated application dated July 23, 1982, for renewal of Certificate of Compliance No. 9086 for the Model No. HM-100, Series 1 packaging.

In connection with our review, we need the information identified in the enclosure to this letter.

The information requested should be submitted within 60 days from the date of this letter. The additional information requested by this letter should be submitted in the form of revised pages.

Your submittal of July 23, 1982 transmitting your consolidated application for renewal is considered to satisfy the condition for timely renewal. Accordingly, the certificate will not expire until a final determination has been made by the Commission.

If you have any questions regarding this matter, we would be pleased to meet with you and your staff.

Sincerely,

*Original Signed by
CHARLES E. MACDONALD*

Charles E. MacDonald, Chief
Transportation Certification Branch
Division of Fuel Cycle and
Material Safety, NMSS

Enclosure: As stated

cc w/encl: See attached list

B209100214 B20827
PDR ADOCK 07109086
C PDR

OFFICE	FCTC	FCTC	FCTC	FCTC		
SURNAME	CEWilliams:alm	HWLee	RHodegaarden	CEMacDonald		
DATE	08/26/82	08/26/82	08/26/82	08/27/82		

Model No. HN-100, Series 1

USA/9086/A

Addressees: w/enc1

Ltr dtd: AUG 27 1982

Alabama Power Company
ATTN: Mr. W. G. Hairston, III
P.O. Box 470
Ashford, AL 36312

Dairyland Power Cooperative
ATTN: Mr. R. E. Shimshak
P.O. Box F
Genoa, WI 54632

Arkansas Power & Light Company
ATTN: Mr. David C. Trimble
P.O. Box 551
Little Rock, AR 72203

Florida Power & Light Company
ATTN: Mr. Robert E. Uhrig
P.O. Box 529100
Miami, FL 33152

Baltimore Gas and Electric Co.
ATTN: Mr. A. E. Lundvall, Jr.
P.O. Box 1475
Baltimore, MD 21203

Georgia Power Company
ATTN: Mr. Max Manry
P.O. Box 442
Baxley, GA 31513

Boston Edison Company
ATTN: Mr. Richard Machon
Rocky Hill Road
Plymouth, MA 02360

GPU Nuclear Corporation
ATTN: Mr. Robert McKeon
P.O. Box 388
Forked River, NJ 08731

Chem-Nuclear Systems, Inc.
ATTN: Ms. Chryl A. Marsh
P.O. Box 1866
Bellevue, WA 98009

Hittman Nuclear & Development Corporation
ATTN: Mr. Bruce S. Rowe
9190 Red Branch Road
Columbia, MD 21045

Commonwealth Edison Company
ATTN: Mr. N. J. Kalivianakis
22710 206th Avenue, North
Cordova, IL 61242

Indiana and Michigan Power Company
ATTN: Dr. John J. Weiss
P.O. Box 18
New York, NY 10004

Commonwealth Edison Company
ATTN: Mr. Donald J. Scott
Dresden Nuclear Power Station
R.R. #1
Morris, IL 60450

Iowa Electric Light & Power Company
ATTN: Mr. Keith Young
P.O. Box 351
Cedar Rapids, IA 52406

Commonwealth Edison Company
ATTN: Mr. Kenneth L. Graesser
Shiloh Blvd. & Lake Michigan
Zion, IL 60099

Maine Yankee Atomic Power Company
ATTN: Mr. Edwin C. Wood
Box 450, RFD 2
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Commonwealth Edison Company
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New York, NY 10511

GPU Nuclear Corporation
ATTN: Mr. Ray E. Hahn
P.O. Box 480
Middletown, PA 17057

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DATE ▶							

Nebraska Public Power District
ATTN: Mr. Jerry V. Sayer
P.O. Box 98
Brownville, NE 68321

Northeast Nuclear Energy Company
ATTN: Mr. A. Gooch Cheatham
P.O. Box 128
Waterford, CT 06385

Northern States Power Company
ATTN: Mr. L. O. Mayer
414 Nicollet Mall, 8th Floor
Minneapolis, MN 55401

Pennsylvania Power & Light
ATTN: Mr. N. W. Curtis
2 North 9th Street
Allentown, PA 18101

Philadelphia Electric Company
ATTN: Mr. M. J. Cooney
P.O. Box 8699
Philadelphia, PA 19101

Rochester Gas and Electric Corporation
ATTN: Mr. John E. Maiser
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Rochester, NY 14649

Southern California Edison Company
ATTN: Mr. William H. Seaman
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Rosemead, CA 91770

Vermont Yankee Nuclear Power
Corporation
ATTN: Mr. Robert L. Smith
1671 Worcester Road
Framingham, MA 01701

Virginia Electric & Power Company
ATTN: Mr. B. R. Sylvia
P.O. Box 26666
Richmond, VA 23261

Yankee Atomic Electric Company
ATTN: Mr. L. H. Heier
1671 Worcester Road
Framingham, MA 01701

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Hittman Nuclear & Development Corporation
Model No. HN-100, Series I Packaging
Docket No. 71-9086

Encl to ltr dtd: AUG 27 1982

1. Resolve inconsistencies between the drawings and the Safety Analysis Report, i.e.,
 - o Section 1.2.1 Packaging. Cask diameters and heights do not agree with drawing dimensions.
 - o Section 2.1.1.2 Cask Lifting Devices. Description of Option 1 and Option 2 are not in agreement with the drawing.
2. Show that the weld joining the mounting plates (cask tie-down lugs) to the outer shell is adequate.
3. Justify the adequacy of the procedure, shown on Drawing No. STD-02-030, for the repair of tapped holes.
4. Provide an analysis to show the effects of a cask drop impacting directly on the drain plug.
5. Drawing Comments:
 - a. Section 2.1.2.3 states that a weld efficiency of 85% is used since the welds have been nondestructively tested. The drawing should identify the weld joints to be tested, the test method to be used, and the code and/or standards which establish the test procedure and acceptance criteria.
 - b. Material specifications are incomplete. The Safety Analysis Report specifies a particular grade of material. The drawings should indicate the specific grade of material called for by the Safety Analysis Report.

Since allowable stress values are based on as purchased and certified mechanical properties, the material specification should be expanded to include the minimum mechanical properties required by the design.
 - c. Most dimensions shown on the drawings are marked "Reference." Dimensional information pertinent to evaluating package performance should not be labeled as "Reference." When the drawing provides a tolerance block, with tolerances noted, the part dimensions should have no further qualifying notation unless a tolerance other than that permitted by the tolerance block is desired.

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- d. Weld symbols should be revised to conform to the standard location of elements of a welding symbol as given in the AWS Code.
- e. A drawing note should be added to specify the appropriate welding code to be applied to the structural welds of the packaging.
- f. Drawing No. STD-02-028, Rev. 3
 - o The tolerance on the radius of the inner shell, Zone D-8, is not in agreement with the tolerance on the diameter Zone C-1.
 - o The tie-down lug should be dimensionally located in the elevation view.
 - o The list of materials should be expanded to include the steel flange which joins the inner and outer shells at the top of the cask. A dimension should be given (Zone D-3) which defines the depth of the steel flange.
- g. Drawing No. STD-02-029, Rev. 3. Drawing should specify the thickness of Item 8.
- h. Drawing No. STD-02-030, Rev. 2. The 82-1/2-inch height dimension does not agree with dimension shown on Drawing No. STD-02-028.

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