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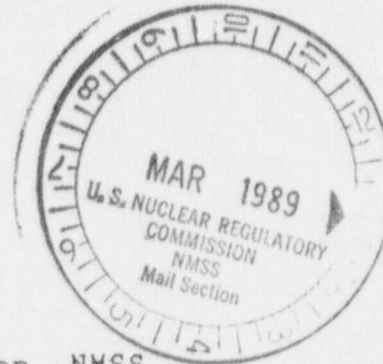
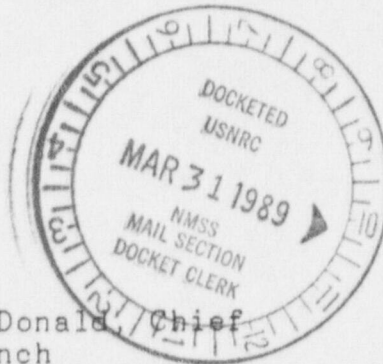
71-9168



CHEM-NUCLEAR SYSTEMS, INC.

220 Stoneridge Drive • Columbia, South Carolina 29210

March 28, 1989  
611-0103-89



Mr. Charles E. MacDonald, Chief  
Transportation Branch  
Divisions of Safeguards and Transportation, NMSS  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Reference: Docket No. 71-9188

Dear Mr. MacDonald:

SUBJECT: PROPOSED CHANGE TO THE SAFETY ANALYSIS REPORT FOR THE  
CNSI MODEL NO. CNS 8-120B SHIPPING PACKAGE

Chem-Nuclear Systems Inc. (CNSI) respectfully submits the enclosed amendment to the Safety Analysis Report (SAR) for the Model No. 8-120B Shipping Package. The amendment proposes changes which would provide enhanced cask operability and maintenance operations, as well as to make editorial changes which provide consistency within the SAR. Analyses have been performed to verify that no safety features, which were considered in the SAR, have been adversely affected by any or all of these changes.

Enclosed you will also find a summary of the changes which have been made and a larger size copy of the 8-120B cask drawings which should facilitate your review. Also provided is a guide page for incorporating this revision into your copies of the Safety Analysis Report.

In accordance with 10 CFR Part 170.31, enclosed is payment in the amount of \$150 (one-hundred fifty dollars) for this proposed amendment. Also included herein is payment for NRC review costs associated with Docket No. 71-9108 (Invoice No. HO500) and Docket No. 71-9176 (Invoice No. HO511).

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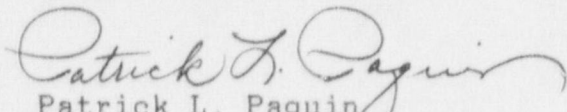
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Date Completed	4/3/89
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1164 applied  
71-9108  
71-9176

Mr. Charles E. MacDonald  
March 28, 1989

Should you or members of your staff have any questions concerning this application, please feel free to contact me.

Very truly yours,

  
Patrick L. Paquin  
Sr. Licensing Engineer

Enclosures: -Check No. 757583  
-Summary of Changes/8-120B Cask Drawing Review Print  
-Revision 6 to the Safety Analysis Report (SAR) for the  
Model No. 8-120B Shipping Package (6 copies)

DOCKET NO. 71-9168

CONTROL NO. 25362

DATE OF DOC. March 28, 1989

DATE RCVD. March 31, 1989

FCUF \_\_\_\_\_ PDR ☒

FCAF \_\_\_\_\_ LPDR \_\_\_\_\_

I & E REF. ☒

SAFEGUARDS \_\_\_\_\_

FCTC ☒ OTHER \_\_\_\_\_

DATE 3/31/89 INITIAL SLC

SUMMARY OF CHANGES  
TO THE  
MODEL NO. CNS 8-120B SHIPPING CASK

DRAWING

Drawing No. C-110-E-0007, Rev. H

1. (Sheet 3, Loc. E/3) Added View "CC"  
The Primary Lid is currently protected with a 12 GA (.105 inch) SST lining (Item 58) which provides corrosion resistance. The use of 3/8" (.375 inch) SST lining material (new Item 68) in the area of the Secondary Lid opening will provide additional protection and easier maintenance of the lid seal surface in connection with the periodic operation of loading the cask via the Secondary Lid.
2. (Sheet 3, Loc. D/3) Added Optional Detail "Q"  
An optional design for the primary and secondary lid lift lugs will provide an operational improvement for cask handling. The lugs will be made out of ASTM A516-70 steel (new Item 29). An analysis of the lug design has been included in the enclosed revision to the SAR.
3. (Sheet 2, Loc. A/6) Revised Detail M  
Detail M was revised to reflect dimensional changes due to the use of 3/8" (.375 inch) SST lining material in the area of the Secondary Lid opening.
4. (Sheet 1, Loc. E/7) Changed Item 29 to Item 67  
Secondary Lid closure is currently accomplished with 2-8UNC-2A x 4" long heavy hex cap screws (old Item 29). Use of 2-8UNC-2A x 4 3/4" long heavy hex cap screws (Item 67) for both Primary Lid and Secondary Lid closure will be an operational improvement by providing additional bolt engagement at the Secondary Lid seal and the use of one size of bolt for cask closure.
5. (Sheet 3, Loc. F/7) 8-120B Parts List  
Revised as appropriate:
  - Changed Item 29:  
was HVY HEX CAP SCREW 2-8UNC x 4" LG --- Quantity "12",  
now PLATE 3/4" --- Quantity "6".
  - Changed Item 67:  
was Quantity "20"  
now Quantity "32".
  - Added Item 68.

## GENERAL INFORMATION

1. (Page 1-1) Changed "thirty-two" to "twenty" to correct editorial error.
2. (Page 1-5) Reworded Section 1.2.3, Contents of Packaging, to be consistent with wording in Certificate of Compliance.

## STRUCTURAL

(Page 2-40.1) Added Section 2.4.3.3 on structural analysis of Optional Design for the Primary and Secondary Lid Lifting Lugs.

## MAINTENANCE PROGRAM

(Page 8-5) Reworded Section 8.2.2.2, Assembly Verification Leak Test, to be consistent with the conditions established in Section 4.4, Determination of Test Conditions for Assembly Verification Leak Test.

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