



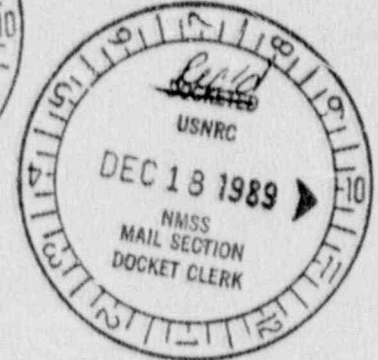
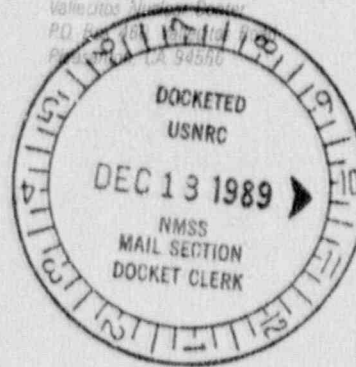
RETURN TO *P1-37* **396-SS**

GE Nuclear Energy

71-5971

General Electric Company
Vallejos, CA
P.O. Box 100
Vallejos, CA 94580

December 12, 1989



C. E. MacDonald, Chief
Transportation Branch
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Reference: Certificate of Compliance No. 5971, Docket 71-5971

Dear Mr. MacDonald:

The Model 200 cask body provides six 1"-8 UNC by 1-1/8" deep threaded holes for the installation of the lid. Because of usage the hole threads could be damaged or corroded. To remedy this condition we are proposing the optional use of threaded inserts. Threaded inserts provide strong, permanent metal thread in virtually any material. The proposed insert is of the heavy duty type with an external thread 1-3/8"-12 UNF-2A and an internal thread of 1"-8 UNC to match the present bolts. The bolt hole will be 1" deep. The insert has a positive mechanical lock against rotation during usage. The insert material is 303 stainless steel with a passivated finish. The pull-out strength of the insert external threads is greater than that of the 1"-8 UNC bolts based on their corresponding tensile stress area of 1.315 in.² versus 0.606 in.². Therefore, the inclusion of the threaded insert does not change the working strength of the bolt as currently required by the certificate.

A revised drawing, 129D4758, Revision 3, showing the optional insert is enclosed. This replaces 129D4758, Revision 2.

A check for \$150.00 for the application fee is enclosed.

Sincerely,

G. E. Cunningham
G. E. Cunningham
Senior Licensing Engineer
(415) 862-4330

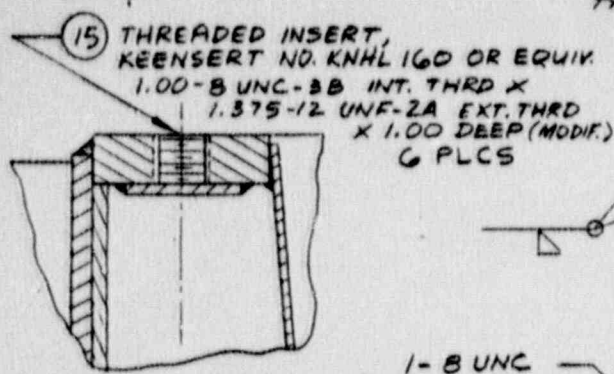
/ca

Enclosures

Log	<i>Dec-1-90</i>
Remitter	
Check No.	<i>523252</i>
Amount	<i>\$150</i>
Fee Category	<i>1074</i>
Type of Fee	<i>App</i>
Date Check Rec'd.	<i>12/18/89</i>
Date Completed	<i>12/21/89</i>
By:	<i>[Signature]</i>

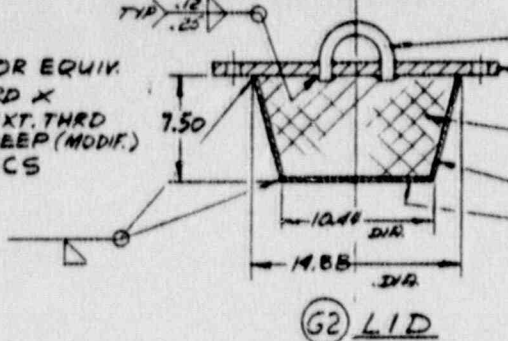
8912210200 891212
PDR ADOCK 07105971
C PIC

DEC 18 1989
1/1
NTD1
26182



DETAIL B (OPTIONAL)

WELD THIS SIDE OPTIONAL



- 10 LID LIFT 1/4 DIA. STA
- 9 LID-TOP 20.25 DIA X (STA. STL. O)
- 2 LEAD SH
- 3 SIDE & BA 1/8 THK. STA

1-8 UNC 6 HOLES

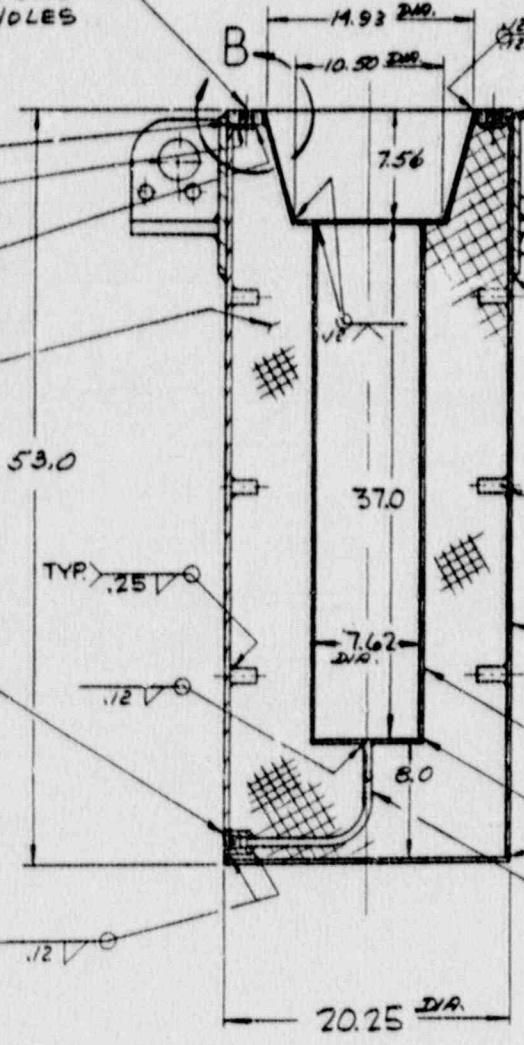
DISC 1.5 DIA X 1/8 THK. C. STL. (6 REQD.)

FLANGE TO SMALL .38

4

TYP .12 V

LEAD SHIELDING 1



- 8 CASK FLANGE 20.25 DIA X 1/8 THK. C. STL.
- 7 LIFTING EAR 1.0 THK. C. STL. (2 REQ.)
- 6 COLLAR 1/2 THK. C. STL.
- 14 LUG (LEAD POSITION) 1.0 DIA. X 2.0 LG. C. STL. (12 REQ.)
- 5 CASK SHELL 3/8 THK. C. STL.
- 13 CASK CAVITY LIN 1/8 THK. STA. STL. (9)
- 11 DRAIN TUBE 1/2 O.D. X 1/8 WALL STA. STL.

END FITTING 12 1.50 DIA. X 2.0 LG. 1/2 NPT STA. STL.

G1 CASK BODY

NOTES:

1. DIMENSIONS AND TOLERANCES INDICATE MAXIMUM VARIATIONS BETWEEN PACKAGES AND ARE NOT INDICATIVE OF "FIT" OR "INTERCHANGEABILITY."
2. NOMINAL DIMENSIONS FOR STRUCTURAL SHAPES, PLATES, TUBES, ETC. WILL FALL WITHIN STD. MILL TOLERANCES.
3. ALL OTHER DIMENSIONS ARE $\pm .5$ UNLESS OTHERWISE SHOWN.
4. CASK ASSEMBLY WT. (INCLUDING LID) = 6300 LBS. (± 200 LBS.)
5. LID WT. = 400 LBS. (± 50 LBS.)

* NOT SHOWN

WELD LUG
C. STL.

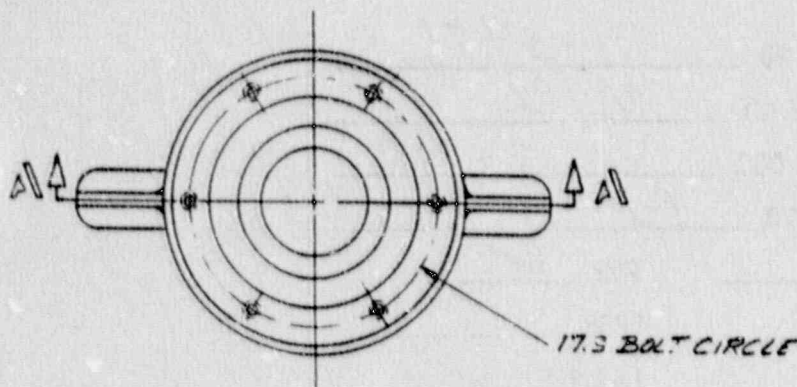
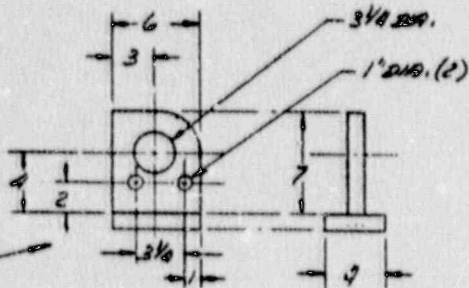
PLATE
C. STL.
ADDITIONAL

WELDING

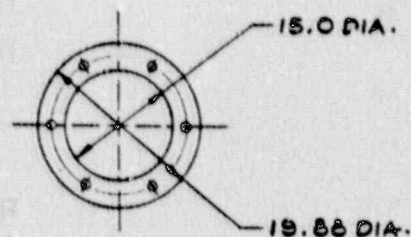
WELD PLATES
C. STL.

REVISIONS	DATE	BY	APP'D	DESCRIPTION
✓				

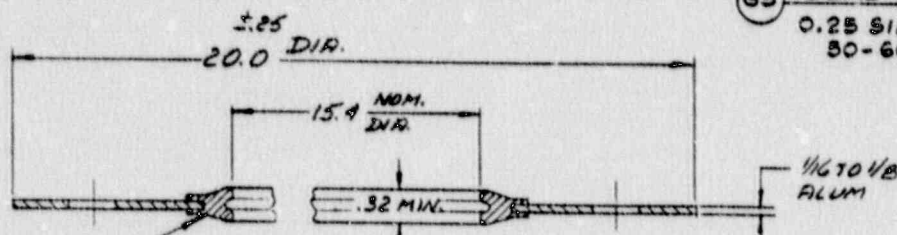
MODEL 200 SHIPPING CASK
CERTIFICATION DWG.
NEXT ASSEM: 129D4756



TOP VIEW OF CASK



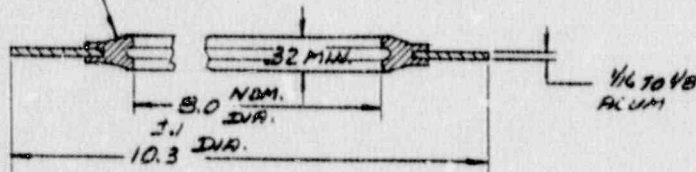
G5 SEAL-UPPER (OPTIONAL)
0.25 SILICONE RUBBER
50-60 DUROMETER



G3 SEAL-UPPER

SILICONE RUBBER
(BOND TO ALUM WITH
GE RTV 102)

SI
APERTURE
CARD



G4 SEAL-LOWER

Also Available On
Aperture Card

89/22/0200-0/

SAFETY RELATED COMPONENT,
WIN FOR CLARITY ONLY.

NO.	DESCRIPTION OF CHANGE	REVISION	DATE	BY	APP'D
1	NOT FOR FABRICATION	BCNNG-8784			
2		ECNNG-5172			
3		ECNNG-5206			

SEPT 8, 80

TC: NGBL

190

VNZ

129D4758