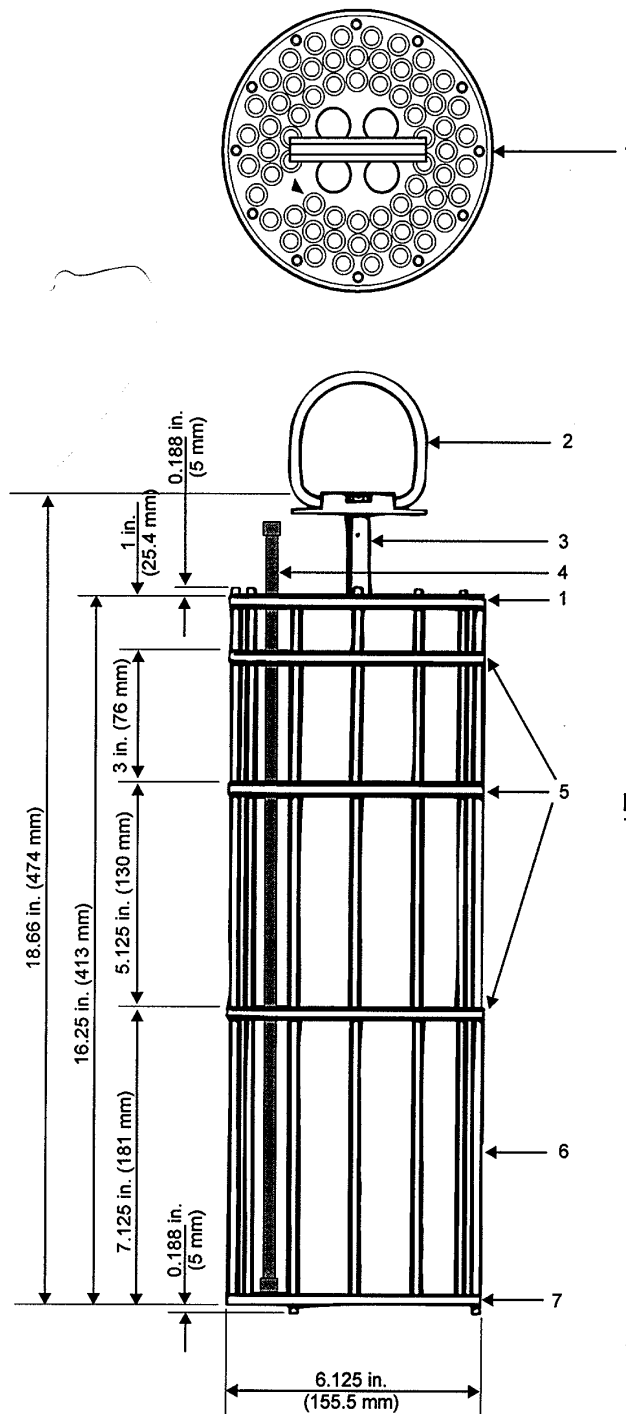


U.S. NUCLEAR REGULATORY COMMISSION		Conversation Date: 04/07/03
TELEPHONE CONVERSATION RECORD		Time: 12:30 p.m.
Mail Control No.: 132825	License No.: 37-30804-02	Docket No.: 030-36239
Licensee/Applicant Participant(s): Mike Krzaniak, Packaging Engineering Manager at Nordion, Inc.	Organization: CFC Logistics, Inc.	Telephone No.: 613 592 3400 Ext. 2035
Person(s) Calling: Sattar Lodhi		
Subject: Heat generation in C-188 pencils		
<p>Summary:</p> <p>I called Nordion to discuss heat generation in C-188 pencils and to confirm my data of 14 watt per kilocuries of Co-60. Mike returned my call and stated that C-188 pencils generate 15.4 watts per kilocuries. I discussed with him the design submitted by CFC Logistics (without naming the applicant), and he stated that natural air flow (chimney effect) should maintain satisfactory temperature for the pencils, and forced air cooling should be even better.</p> <p>I asked him about configuration of pencils in shipping casks. He stated that the sources are in an air cavity within the cask and they determine the configuration within the cavity by taking into account the number of pencils and individual activity of each source. He sent me a typical configuration within a shipping cask.</p> <p>He stated that the applicant should address our concern for heat generation within the tubes. He stated that he worked with Graystar several years ago and gave them his views and suggestions and he is glad that they have taken up his suggestions.</p>		
Action Required/Taken: Document		
Prepared By: Sattar Lodhi	Date: 4/7/03	



Notes:

1. Material stainless steel 316
2. Welded construction
3. Carrying capacity 64 C-188
4. Used in the F-168 transport packaging
5. Total weight: 9 lbs (4.1 Kg)

Parts List:

1. Top plate 0.25 in. thick (6 mm)
 - 1st row = 24 holes
 - 2nd row = 23 holes
 - 3rd row = 17 holes
 - All holes 0.47 in. dia. (12 mm)
2. Swivel type lifting handle 0.25 in diameter (6 mm)
3. Centre post: Above top plate 0.5 in. dia. (13 mm)
 - Below top plate 0.25 in. dia. (6 mm)
4. C-188 capsule assembly, ref. drawing A05244
 - 17.77 in. long (451 mm)
5. Spacer plates: 0.25 in. thick (6 mm)
6. Support rods: 0.25 in. thick (6 mm) [12]
7. Base plate 0.25 in. thick (6 mm)
 - 1st row = 24 holes 0.256 in. dia. (7 mm)
 - 2nd, 3rd rows = 24 holes 0.25 in. dia. (6 mm)
 - 4th row = 18 holes 0.25 in. dia. (6 mm)



447 March Road, P.O. Box 13500
 Kanata, Ontario, Canada, K2K 1X8
 Tel: (613) 592-2790 · Fax: (613) 592-6937

THIS DRAWING IS THE PROPERTY OF MDS NORDION AND IS SUBMITTED FOR CONSIDERATION ON THE UNDERSTANDING THAT THERE SHALL BE NO EXPLOITATION OF ANY INFORMATION CONTAINED HEREIN EXCEPT WITH THE SPECIFIC WRITTEN AGREEMENT OF MDS NORDION.

TITLE

Wet Storage Capsule Cage Assembly

REF. F102301-001
 IN/SS 1239 F234

REVISED Dec 96 DCN A0569-D-01A

DATE Jan 1974

No.

F-234

ISSUE

2

DRAWN CHECKED APPROVED

SHEET 1 OF 1

