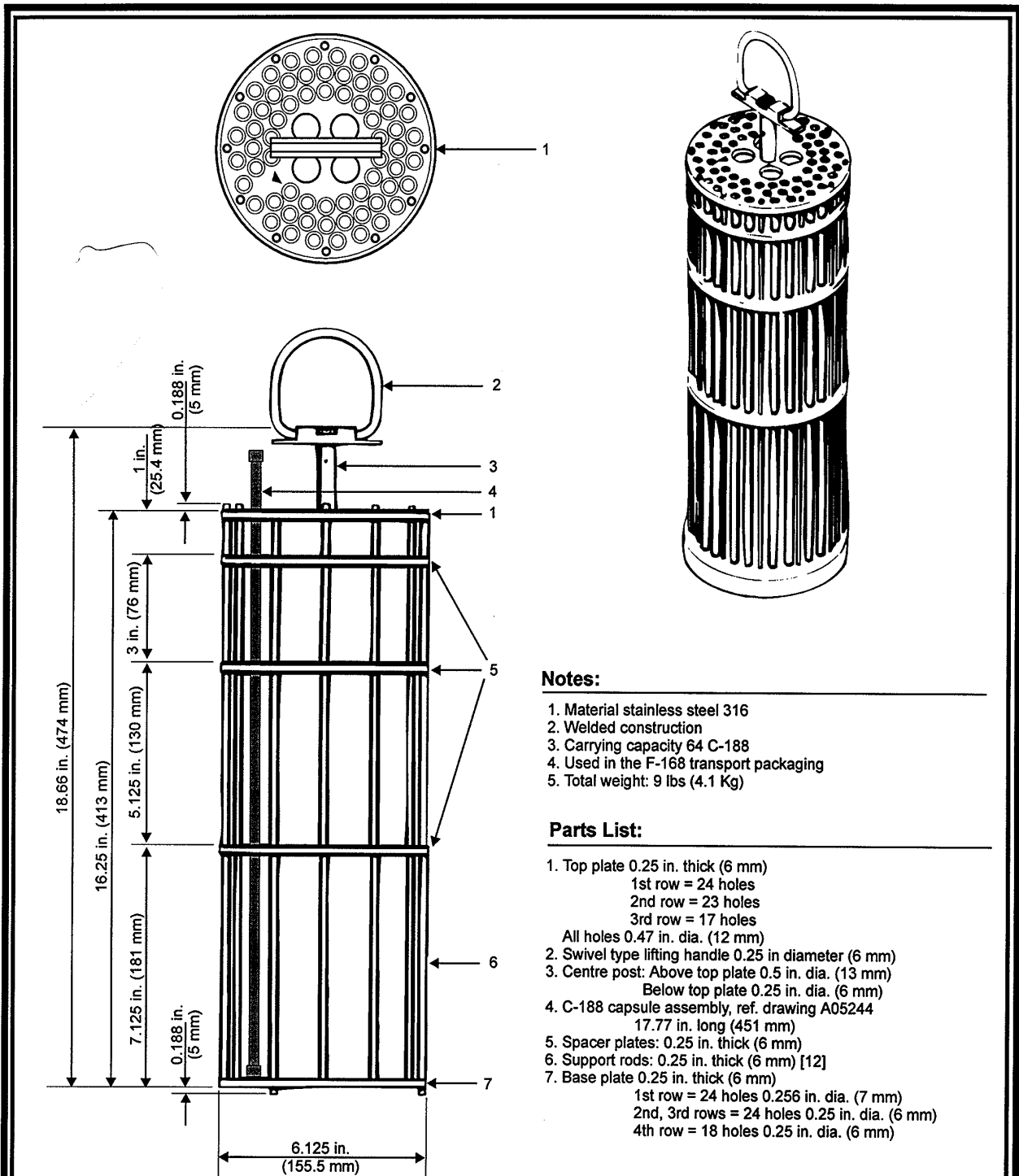


U.S. NUCLEAR REGULATORY COMMISSION		Conversation Date: 04/07/03	
<b>TELEPHONE CONVERSATION RECORD</b>		Time: 12:30 p.m.	
Mail Control No.:	License No.:	Docket No.:	
132825	37-30804-02	030-36239	
Licensee/Applicant Participant(s):	Organization:	Telephone No.:	
Mike Krzaniak, Packaging Engineering Manager at Nordion, Inc.	CFC Logistics, Inc.	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)



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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
DRAWN	CHECKED	APPROVED	ISSUE
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	2
SHEET 1 OF 1			

