

YDK



April 21, 1976

Mr. Ernest Volganeau, Director
Directorate of Regulatory Operations
U.S. Nuclear Regulatory Commission
Washington, D.C. 20545

Subject: Docket No. 50-302

Dear Mr. Volganeau:

Pursuant to 10CFR50.55E, we wish to follow up our verbal (telephone) notification of 4/19/76 regarding a separation in the concrete of the Crystal River Unit #3 containment structure dome. We have now documented the apparent extent of this separation. To recap, the following is the sequence of events of the investigation.

On Wednesday, April 14, 1976, while placing cinch anchors in the dome concrete of the Reactor Building, it was noted that there appeared to be a hollow area about one inch beneath the surface. Investigation on Friday, April 16, by saw cutting and removing a section of concrete approximately one foot wide by three feet long, showed that the depth of the hollow area went deeper as it went higher on the dome. By core drilling on Saturday and Sunday, April 17 and 18, it was further determined that the separation continued across the dome and went as deep as 15" and separated as much as 1-3/4 inches. By using acoustic methods, the lower perimeter of the separated area was determined to extend all around the dome in pours "G", "H" and "J".

Our engineers are now evaluating the present condition of the structure.

Sketches marked I, II, III, IV, V, and VI illustrate the apparent extent of the separation as indicated by the limited data available at this time.

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Mr. Ernest Volganeau

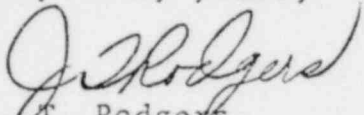
- 2 -

April 21, 1976

We will advise you when we have reached final resolution of this problem.

If you have any questions, please advise us.

Very truly yours,


J. T. Rodgers
Asst. Vice President

JTR/iw
Attachments.

cc: Mr. Norman C. Moseley
Director, Region II

R.B. WHERE HOLLOW SOUND BEGINS (FT.)

0° - 12 Ft.

8°-31' 10

6°-18' 9.5

4°-29' 9.0

2°-40' 8.5

0°-51' 8.5

9°-02' 7.5

7°-13' 4

5°-24' 4

3°-35' 3

1°-46' 3.5

0°-0' 3.5

8°-08' 7.5

6°-19' 9.5

4°-30' 10

2°-41' 9.5

0°-52' 10

8°-03' 10

6°-14' 10

4°-25' 10

2°-36' 9.5

0°-47' 8

8°-0' 8

6°-0' 8

EL. 269'-11 1/2"
FILL CONC.

TOP
LEDGE

ARC
DIST

LOCATION WHERE
HOLLOW SOUND
BEGINS

VERY POOR
ORIGINAL

II

AKL1
 MOUTH DIST FROM TOP OF LEDGE TO LOCATION
 .B. WHERE HOLLOW SOUND BEGINS (FT.)

76°-22'	8	FT.
74°-38'	8	
72°-44'	8	
70°-45'	8	
69°-06'	7	
37°-17'	5.5	EL. 269'-11 1/2" ARC DIST.
45°-28'	4	FILL CONC. TOP LEDGE
53°-39'	3.5	
61°-50'	6	
70°-0'	9	
78°-12'	9.5	
76°-23'	10	
74°-34'	9.5	
72°-45'	10.5	
70°-56'	10.5	
69°-07'	10	
67°-13'	10	
65°-29'	9.5	
63°-40'	10	
61°-48'	9.5	

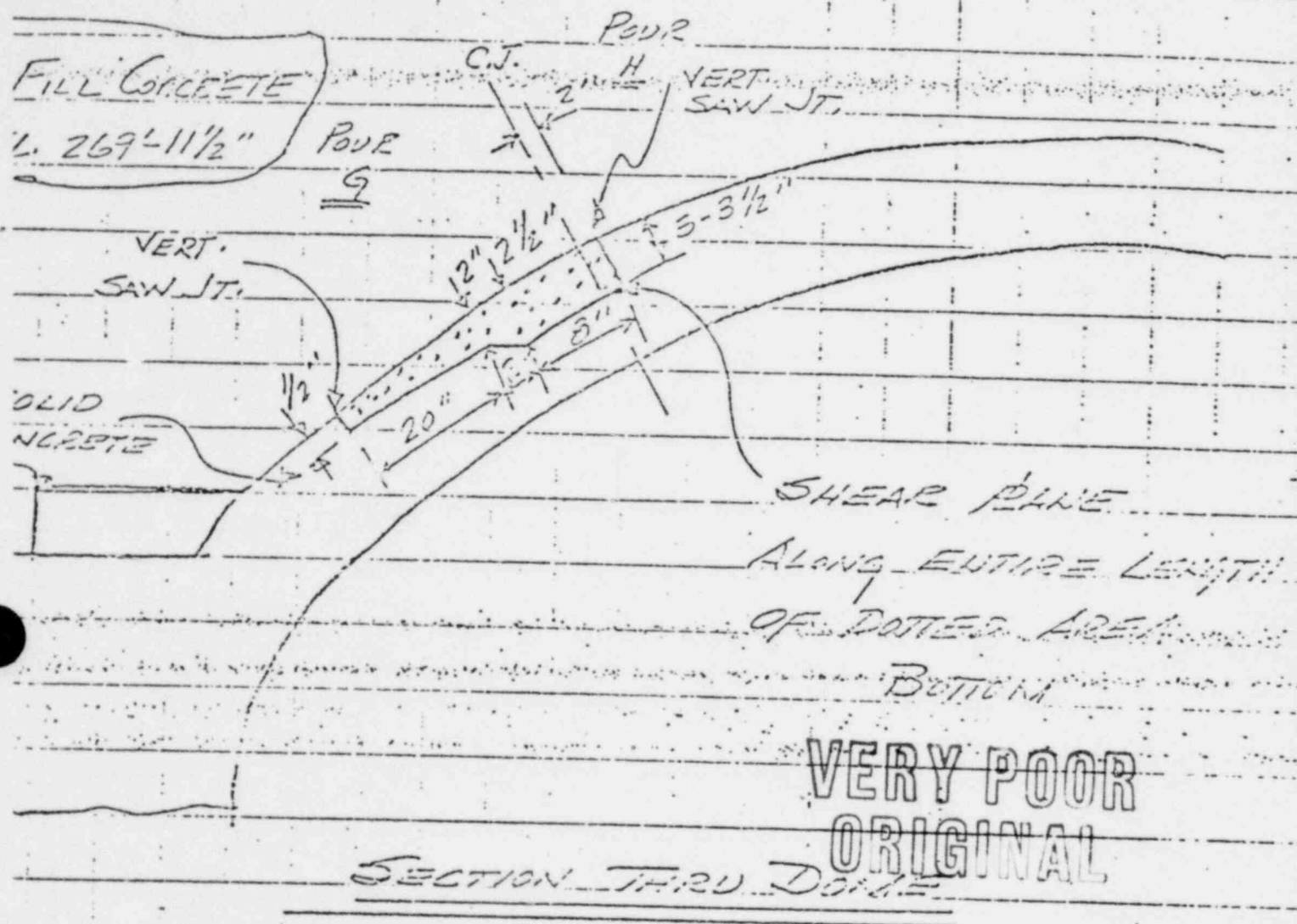
LOCATION WHERE
 HOLLOW SOUND
 BEGINS



SECTION THRU DOME



VERY POOR
 ORIGINAL



DOTTED AREA REPRESENT
CONCRETE REMOVED BY
SAWING AROUND THE
PLAN PERIMETER OF
THE SECTION.

IV

REFER TO ENCLOSED PHOTOGRAPHS.

MAY 5 1976

R. C. DeYoung

- 3 -

ccs:

E. Volgenau, IE
 J. G. Davis, IE
 H. D. Thornburg, IE
 D. Thompson, IE
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 W. R. Butler, DPM
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RIP: 676/F2017041

OFFICE	IE:RTB <i>3/1</i>	IE:RTB <i>3/1</i>	IE:RID <i>2/1</i>	DPM:ADWRS		
SURNAME	REShevmaker	KVSeyfrit	BHGrier	RCDeYoung		
DATE	4/30/76 <i>sg</i>	4/30/76	4/2/76	5/3/76		