

**Franke, Mark**

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**From:** Williams, Charles R. [Charles.Williams@pgnmail.com]  
**Sent:** Tuesday, November 24, 2009 7:10 AM  
**To:** Lake, Louis; Thomas, George; nausdj@ornl.gov  
**Cc:** Herrin, Dennis W.  
**Subject:** Refute 2,8 for Review  
**Attachments:** FM 2.8.ppt; Picture 013.jpg; 4 jan 73 emailsize.jpg; 5 april 73.bmp.jpg; DSC04768.JPG; DSC04776.JPG; Picture 006.jpg

6

7

8pgs

Mr Lake,

I am resending due to difficulty with opening/reading the previous attachments. Again, this is prelim. Call me with questions. It looks like I will need to send each one as separate emails to keep from mixing documents.

Thank you,  
Charles Williams  
919-516-7417

# 2.8 Inadequate Support of Tendons during Pouring

Preliminary

May identify additional perspective on this  
issue as RCA related efforts proceeds

Description: If the tendons are not supported well, they may move during concrete pouring resulting in either or both, (1) localized friction between the tendon and its sleeve and (2) non-uniform stress in the concrete over the length of the tendon.

Data to be Collected and Analyzed:

Examine supports of hoop sleeves during construction.

(1) Examine supports of vertical sleeves during construction.

(2) Examine sleeve location and condition during demolition.

See Exhibit 1 as an example of a few pictures that show spacing during construction and SGR hole cutting.

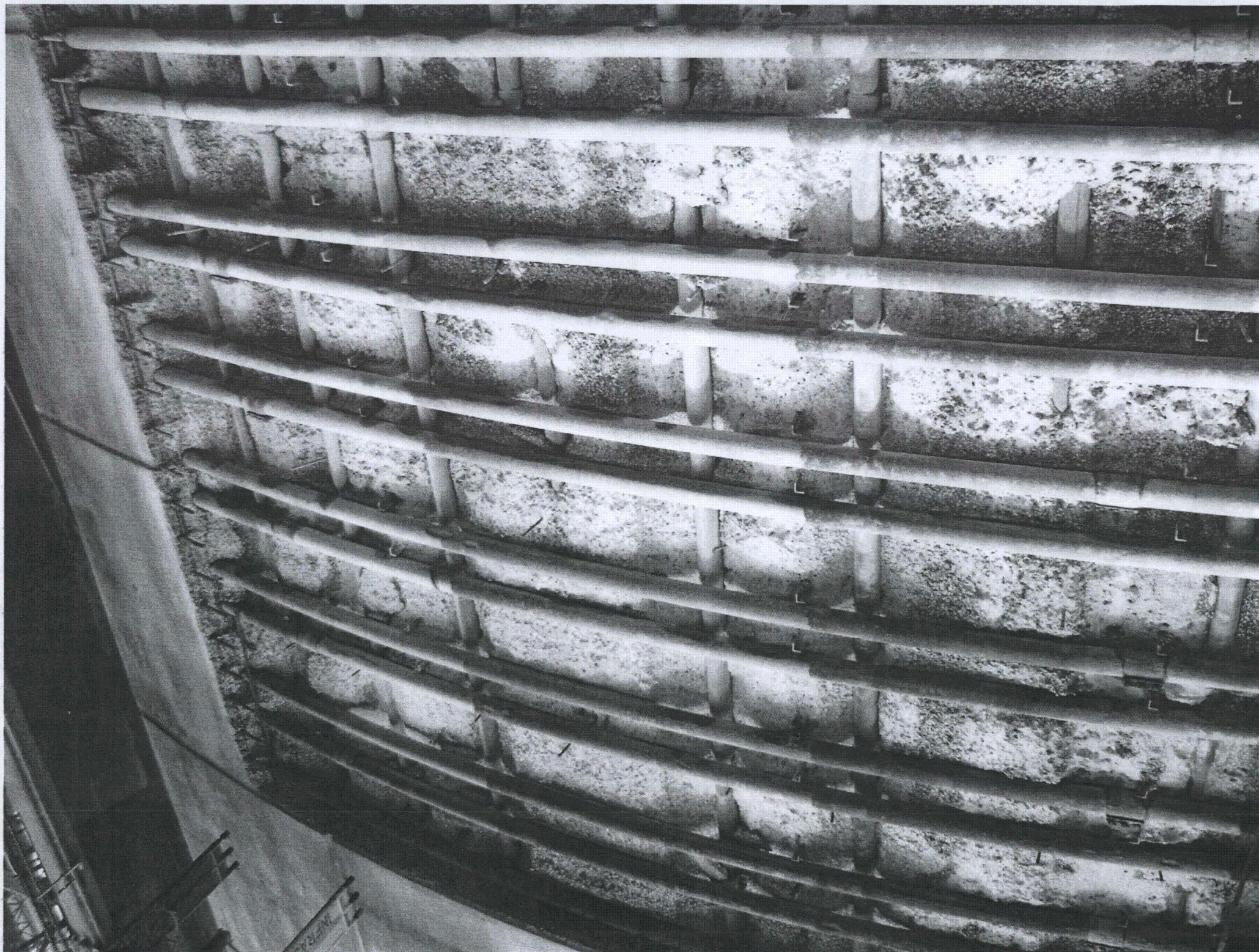
Verified Refuting Evidence:

1. Photos from original construction demonstrate the support system.
2. Photos taken during demolition show that the sleeves were evenly distributed in the zone and not deformed.

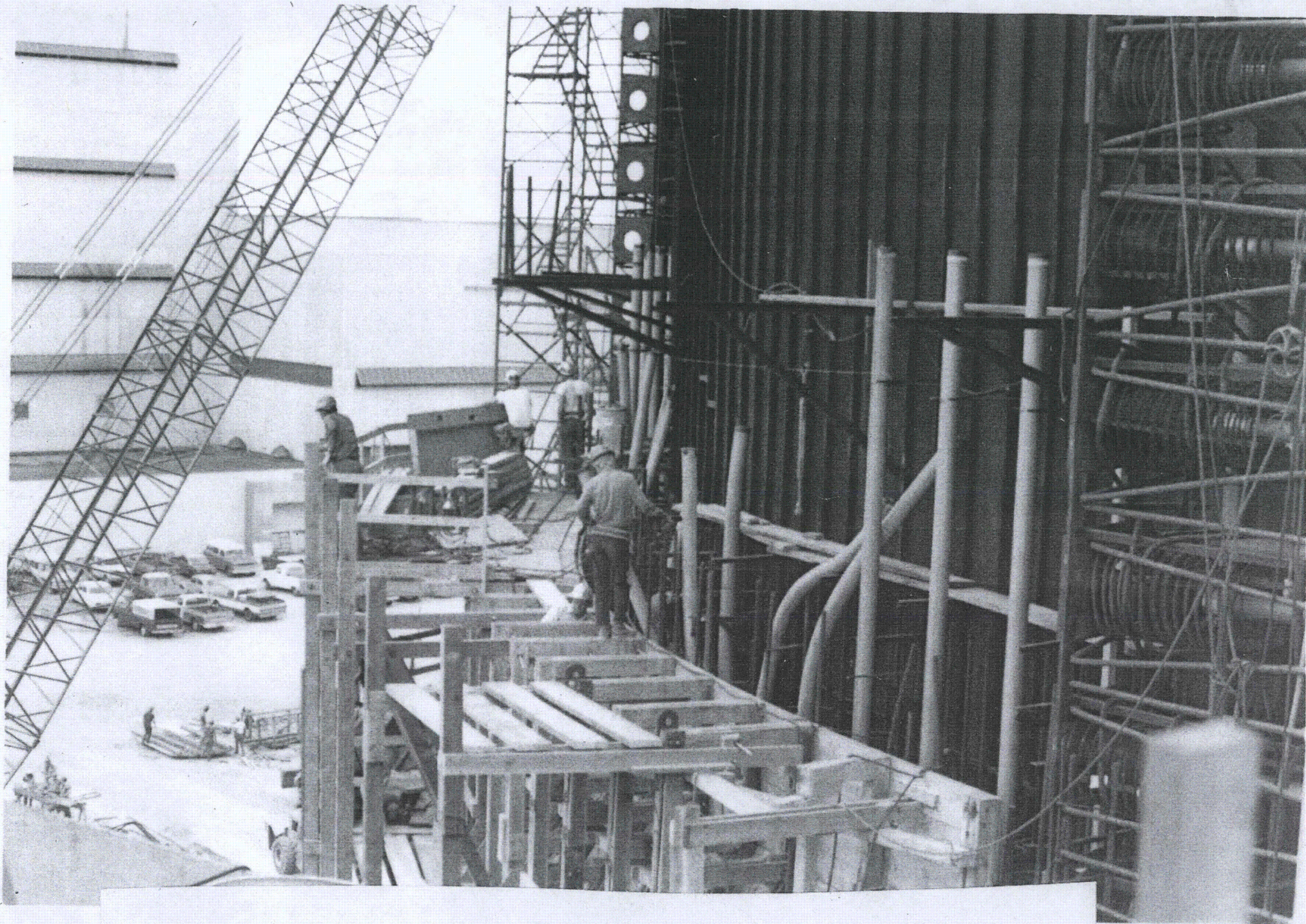
Reviewed by: Dr. Avi Mor, 352-795-6486 , ext 1030 –  
PII CR3 Team Office

Verified Supporting Evidence:



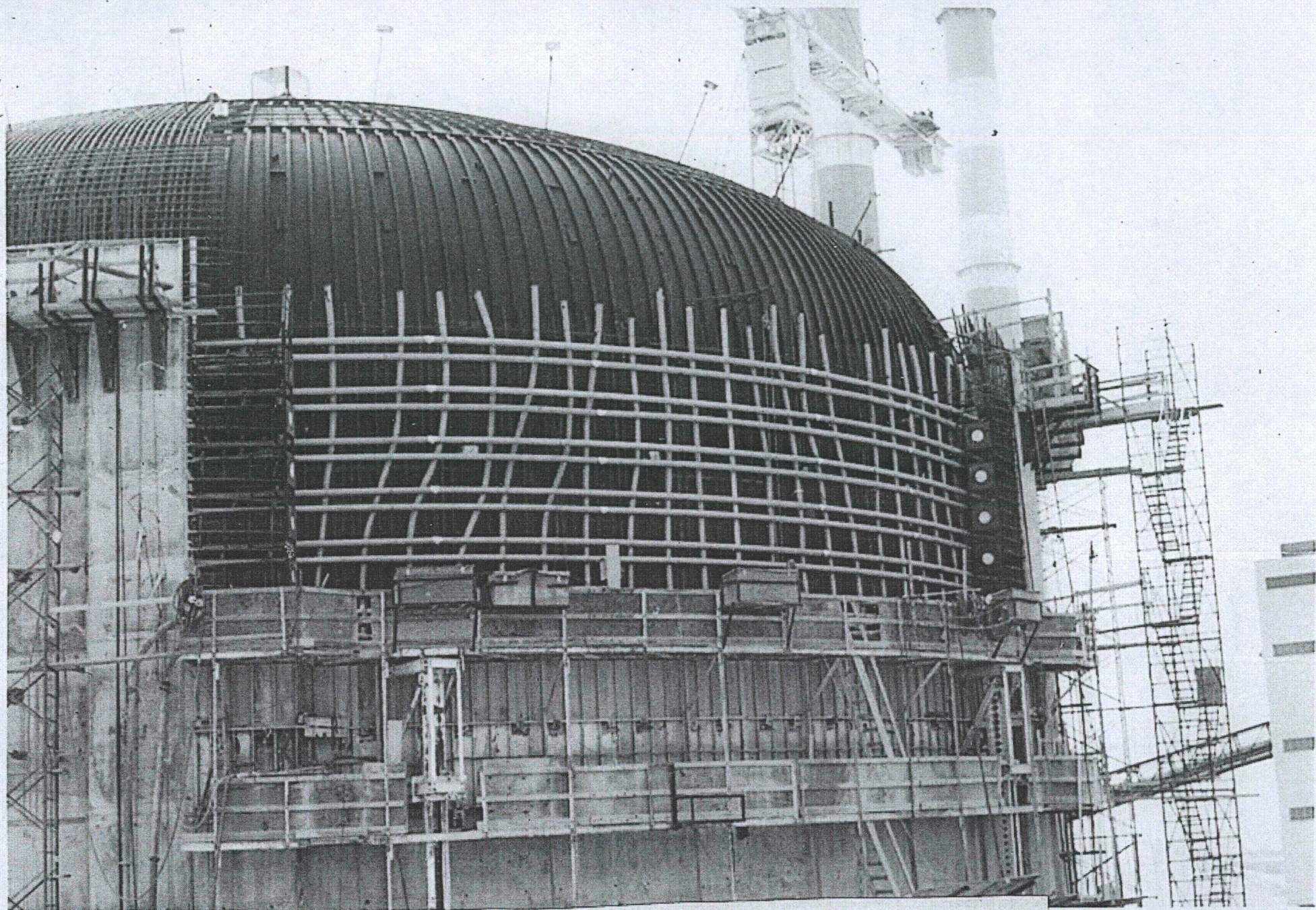






4 JAN 73  
REACTOR BLDG EQUIP ACCESS OPENING





5 APRIL 73  
REACTOR BLDG EXT WALL 300°-360°



