

# PRIORITY 1

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 JOHNSON, A.R.      Document Control Branch (Document Control Desk)

SUBJECT: Forwards SER addressing best way to assure structural integrity of containment is through well planned tendon surveillance program.

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ROBERT C. MECREDY  
Vice President  
Ginna Nuclear Production

July 12, 1994

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Attn: Allen R. Johnson  
Project Directorate I-3  
Washington, D.C. 20555

Subject: Ginna Containment Structural Integrity  
R. E. Ginna Nuclear Power Plant

Dear Mr. Johnson:

The NRC has transmitted to RG&E, via reference 1, their Safety Evaluation Report (SER) addressing the Containment Structural Integrity. The NRC advised in the SER that the best way to assure the structural integrity of the containment is through a well-planned tendon surveillance program.

RG&E does have in place a tendon surveillance program, which is consistent with Regulatory Guide 1.35. That test is scheduled to be done in the summer of 1995 and will be tracked with Engineering Work Request (EWR) #10180.

The scope of the program consists of the following:

- Visual examination of the casing filler grease.
- Analytical testing of the casing filler grease.
- Inspection of the anchor assemblies for deleterious conditions such as corrosion, cracks, broken wires, or missing buttonheads.
- Measuring shim dimensions and anchor head bushing projection to determine lift off elongation.
- Measuring Lift off loads.
- Application of additional 6% overstress and measuring corresponding tendon elongation.

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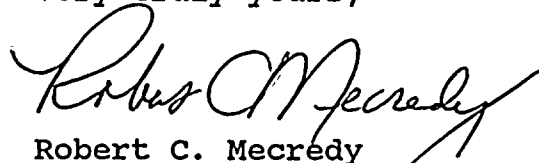


- Resealing tendon cans and regreasing anchor assembly.
- Removal and visual inspection of one unstressed sacrificial tendon wire.
- Tensile testing of tendon specimens.
- Evaluation of test and inspection results to assess the general condition of the post-tensioning system and evaluate time dependent factors such as prestress losses and corrosion.

RG&E is planning on replacing Ginna's steam generators in 1996 by removing them through openings cut in the containment building dome. This project is being tracked under EWR 10034. After reconstruction of the dome, a structural integrity test at 115 percent of design pressure will be conducted. Local measurements of displacement and stress will be performed in the vicinity of the reconstructed area. Measurements in the cylindrical portion of the containment are also anticipated.

The Ginna tendon surveillance program and the planned structural integrity of the containment building meet the request of reference 1 and should resolve the containment integrity issues.

Very truly yours,



Robert C. Mecredy

LAS/388

References

1. Letter dated May 27, 1994 from NRC (Johnson) to RG&E (Mecredy)  
Subject: "Ginna Containment Structural Integrity - Technical  
Report 500167-7, "Radial Displacement and Rebar Strain  
Measurement for EWR 5181," May 17, 1993 (TAC NO M80494).