Masters, Anthony

From: ODonohue, Kathleen
Sent: Tuesday, October 06, 2009 12:01 PM
To: Masters, Anthony; Jackson, Rahsean; Davis, Bradley; Lizardi, Jonathan; Abbott, Coleman; Heher, Elaine; Seat, Jamin
Subject: FW: Crystal River containment crack

Categories: Perform Review

FYI - currently Operating side has not asked for any assistance

Picture to follow

Kathleen O'Donohue
Branch Chief, Construction Inspection - Branch 2
404-562-0554
NEW EMAIL: Kathleen.Odonohue@NRC.GOV

From: Blake, Jerome
Sent: Tuesday, October 06, 2009 10:14 AM
To: Chou, Rich; Carrion, Robert
Cc: Ogle, Chuck; Moorman, James; ODonohue, Kathleen
Subject: Crystal River containment crack

Rich, Bob,
During conversation with Chuck Ogle about the Crystal River containment cracking issue, I remembered an issue concerning Crystal River from construction days.

After the containment was completed and post-tensioned, the containment dome spontaneously de-laminated. (aloud "BANG" was heard, and subsequent investigation found the de-lamination problem.) At that time Gilbert and Associates, (the site Architect/Engineer) determined that re-bar hooks meant to couple the outer and inner layers of rebar in the dome had been left off the rebar detail plans and therefore had not been installed. I believe the details of the dome problem were documented in a 50.55(e) report.

This morning I heard that the licensee is saying that the containment crack appears to be full height of the containment and 360-degrees. It seems to me that the current problem sounds like an issue similar to the problem that resulted in de-lamination of the dome - re-bar hooks connecting inner and outer layers of rebar were omitted from the detail plans and never installed.

I don't know if the licensee would remember the earlier issue, but I thought that you should know about the history of the containment dome so that you can see if the licensee and contractors are factoring in that part of the history of the containment in their root cause analyses.

Jerry