

## Carrion, Robert

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**From:** Carrion, Robert *RS*  
**Sent:** Friday, November 06, 2009 10:28 AM  
**To:** Masters, Anthony  
**Subject:** RE: observations from core boring this afternoon

Thanks, Anthony.

Bob

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**From:** Masters, Anthony *RS*  
**Sent:** Thursday, November 05, 2009 6:03 PM  
**To:** Carrion, Robert  
**Cc:** Lake, Louis; Thomas, George; Dan Naus; Masters, Anthony  
**Subject:** observations from core boring this afternoon

Bob,

Here is some more information about the two issues I told you about from my observations of the core boring. Pictures are on your thumb drive you gave me this evening and at G:\shared\DRS\SIT\CR3 - Oct 2009 - Containment Bldg Delam\PICTURES\Core Boring Nov 5th

1 - Observed core boring with Progress Energy Project Engineer, Bill Bayrd. The core boring team were Bechtel steel workers (D. Miller, G. Ayala, and M. Clacchella). The cores were being taken under work order 01636782-01 at RBCN0015 (the equipment hatch section between buttresses 3 and 4). The process they use is to first drill 4 small diameter pilot holes around the core location. The area is already marked by CTL using the NDE techniques to identify the steel. They also use a "drillstop" while drilling both pilot holes and core drilling that will turn the drill off if the bit comes in contact with metal. The first pilot hole for core hole #49 encountered steel at about 3.5 inches, they moved slightly closer to the core location and attempted again, and then encountered steel at about 4.5 inches deep. Then moved slightly closer to core center mark and drilled to depth of 12 inches with out encountering steel. The other 3 pilot holes were good. So, Mr. Bayrd made the decision to reduce from the requested 4" core diameter to 1 inch diameter due to the tight steel restrictions. The core was successful to 12 inches.

Then while drilling the first pilot hole for core hole #46, grease began coming out of the hole at about the 10 inch depth. When they checked the drillstop, it was not turned on. They turned the drill stop on and stuck the bit back in the hole and it shut off the drill indicating that it did indeed come in contact with steel. It is believed that this hole was drilled into a tendon casing resulting in grease leaking out of hole. No indications on the wall from the NDE indicated a tendon in this location. It was located in panel AZ at about EL 160' and about 84.5 inches from left side of the panel, and about 22.5 inches from the top of the panel, and about 3 inches from the beginning of the transition to the sloped thickened section at the top of the equipment hatch.

I am not sure if this will result in an NCR or how they will document this.

2 - Mr. Bayrd showed me an large spalled off delam area located in the lower left corner of panel U at Azimuth 165 about EL 180'. It was triangular in shape and was about 4.5 ft wide at the bottom base of the triangle and about 2 ft. tall at the midspan and about 3 inches thick. Mr. Bayrd said he reported it to his management, but was unsure if there was an NCR or any documentation on this. This is a concern because it may further indicate that the surface is poor and that a repair to just epoxy or grout the crack may not be sufficient if the top surface is flaky off.

*C-SY*

**Anthony D. Masters, PE**

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