

Heisserer, Jamie

From: Ernstes, Michael
Sent: Tuesday, February 17, 2015 12:12 PM
To: Yerokun, Jimi; Jones, William; Heisserer, Jamie; Musser, Randy
Cc: Brown, Frederick; Donnelly, Patrick; Heher, Patrick; Chandler, Timothy
Subject: Summer CV issue

We don't have much new information on the Containment Vessel issue at Summer yet. Patrick D. said that an N&D has been written and that CB&I and WEC are evaluating a course of action.

I have a call into April Rice to get the SCE&G perspective.

To recap the issue which occurred inside the Summer Unit 2 Containment Vessel last week:

- During installation of embeds in preparation for pouring Layer 3 of concrete, interferences were identified with 7 dowels (vertical rebar) extending from Layer 2.
- These dowels were cut off.
- Holes were drilled in the concrete to grout in replacement dowels. The holes were 27" deep.
- To prepare for the grout, the holes are filled with water.
- One of the holes did not hold water.
- A borascope was inserted into the hole and it revealed that the containment liner had been penetrated (not all the way through).

Based on the additional details we get (or don't get) we may want to consider sending some technical help to the site to get an understanding of the cause of the event, the extent of condition and the technical fix. Patrick said he would appreciate the help.

I don't believe we have ever used it but Appendix C of MC 2504 lists criteria for Special Inspections. Under Significant Offsite or Onsite Industrial Event, it says: "Possibility of significant impact on stored or constructed items or materials." There is also a catch all under Any Other Significant Issue which says: "Significant issue not covered above judged by management to warrant additional inspection or followup."

I don't think we know enough to say we need a Special Inspection but it is something to keep in mind.

I will let everyone know when we get more details. Patrick Donnelly is following the issue from the site.

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NRC CV/Rebar Impact Special Inspection Team (SIT) Question/Information List

No.	Inspector	Assigned To	CAP	Status	Description
1	Oelstrom	Cole	N/A	Open	JOE, Please update this list with previously provided information per inspector request
2	Oelstrom	Salter	N/A	Closed	VS2-CR01-GNR-000259
3	Michel	Cole/ Drake Bianco/	N/A	Closed	Provide inspector with a copy of CB&I-S procedure CMS-830-15-PR-18010 R3 for repair of the CV indication. Provide SME to walk through procedure and tie back guidance to code requirements. Update provide walk through at 1400 Tuesday afternoon.
4	O'Bryan	Arnall/ Baucom	N/A	Closed	Set up Interviews with Craft personnel involved with the core drilling operation. Also include the personnel who provided layout/direction as to what location to drill.
5	Michel/ Oelstrom	Baucom	N/A	Closed	Provide a review of applicable core boring equipment as referred to in Entrance meeting. Baucom has set up for 0900 Wednesday in BLDG 9 CR 1A
6	Michel/ Oelstrom	Young/ Hughes	N/A	Open	Provide an opportunity for inspection of Unit 2 Containment 80'-6" core locations. Oelstrom in field Wednesday afternoon.
7	Oelstrom	Baucom	N/A	Open	CSI 3-40, CSI 3-29, CSI 2-21 copies -CSI 2-21 is in draft
8	Oelstrom	Baucom	N/A	Closed	Chad would like to understand where the criteria are located that specify Low/Moderate/High Risk Activities. ICN for CSI 2-19 was provided.
9	Oelstrom	Baucom	N/A	Open	Review work package encompassing scope of the following N&D dispositions VS2-CR01-GNR-000263, -259, -275. - Chad is targeting reviewing this Work Package around 10:00 Wednesday.
10	Michel	Cole/ Bianco	N/A	Closed	SME to walk through CBI-S repair procedure at 1400 today. Completed, Question below.
11	O'Bryan	Baucom/ Wills	N/A	Closed	Schedule interviews this afternoon with FE and QA personnel associated with Event.

Open = Received from NRC
 In Progress = Information Partially Provided to NRC
 To NRC = Information Provided to NRC
 Closed = NRC Requires No Further Information on This Item

NRC CV/Rebar Impact Special Inspection Team (SIT) Question/Information List

No.	Inspector	Assigned To	CAP	Status	Description
					FE Interviews scheduled 1300 Tuesday. QC individual on Night shift, may come in 14:30.
12	Oelstrom	Baucom/ Fleetwood	N/A	Open	Provide a List of cores drilled inside U2 CV Concrete (Layer 1, 1A, 2) to-date. This list needs to include applicable N&Ds.
13	Michel		CAR 2015-0626		IOC #1: [Revised 2-25-15 11:00] There were errors made in the development of VSG-CR01-GNR-000263. The N&D referenced the incorrect drawing and incorrect rebar dowel type. How were guidelines in NCSP 3-33 or CSI 3-40 applied?
14	Michel	Wills/Comer		Open	IOC #2: [Revised 2-25-15 11:00] Work was not stopped when structural rebar was struck. This appears to have been due to a lack of knowledge of CV internal construction/design.
15	Michel	Wills		Open	Under CB&I site process, when is a Ground Fault Interrupter (GFI) supposed to be used? During interviews it was determined that the GFI was used until issues arose with faulting on the construction aid mat. A proposed work around had been rejected by some level of supervision.
16	Michel	Robinson		Open	Related to a potential NSC Issue of Concern - Why was WEC Engineering not able to catch that the incorrect dowel type was called out on the N&D. Upon investigation by the inspection team the latent condition appears to be fairly evident. There does not appear to be a second check to help verify entered into an N&D by the originator.
17	Michel	Burk/Comer		Open	Related to a potential NSC Issue of Concern - How are HuP tools utilized during Pre-Job Briefs in the field? During the evolution of this issue the question, "What's the worst that could happen?" does not appear to have been asked during any PJB.
18	Michel	Bianco	ORPN PN-VCS-	Open	After the review and discussion of CMS-830-15-PR-18010 R3 for repair of the CV

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NRC CV/Rebar Impact Special Inspection Team (SIT) Question/Information List

No.	Inspector	Assigned To	CAP	Status	Description
			2015-608 CAPAL XXXXXXX CR-NND-15-00352		indication there was a question concerning treatment of defects in accordance with code requirements for depth.
19	O'Bryan	Wills		Open	[Revised 2-25-15 11:00] There appears to have been a miscommunication between survey and carpentry crews about what the layout offset marks meant. What type of controls are in place for this type of activity?
20	Oelstrom	Baucom	N/A	Closed	NCSP 3-33 [Closed 2-25-15 11:00]
21	Oelstrom	Baucom	N/A	Open	During the interviews procedure QS 15.03 was mentioned as part of N&D process. Verify and provide applicable procedures for N&D initiation. QS 15.01 has been provided previously. Also provide QS 15.03 for clarification.
22	O'Bryan	Wills	N/A	Open	Provide a Revision to the detailed event timeline presented at the Entrance meeting.
23	O'Bryan	Cole	N/A	Closed	[Requested 2-25-15 13:00] APP-GW-GAP-428
24	Michel	Cole/Bianco	N/A	Open	[Requested 2-25-15 13:00] Follow-up question for CB&I-S regarding organization responsible for base metal repairs in ASME NE-4000, NE-2500. Follow up this afternoon with SME arrives back onsite.
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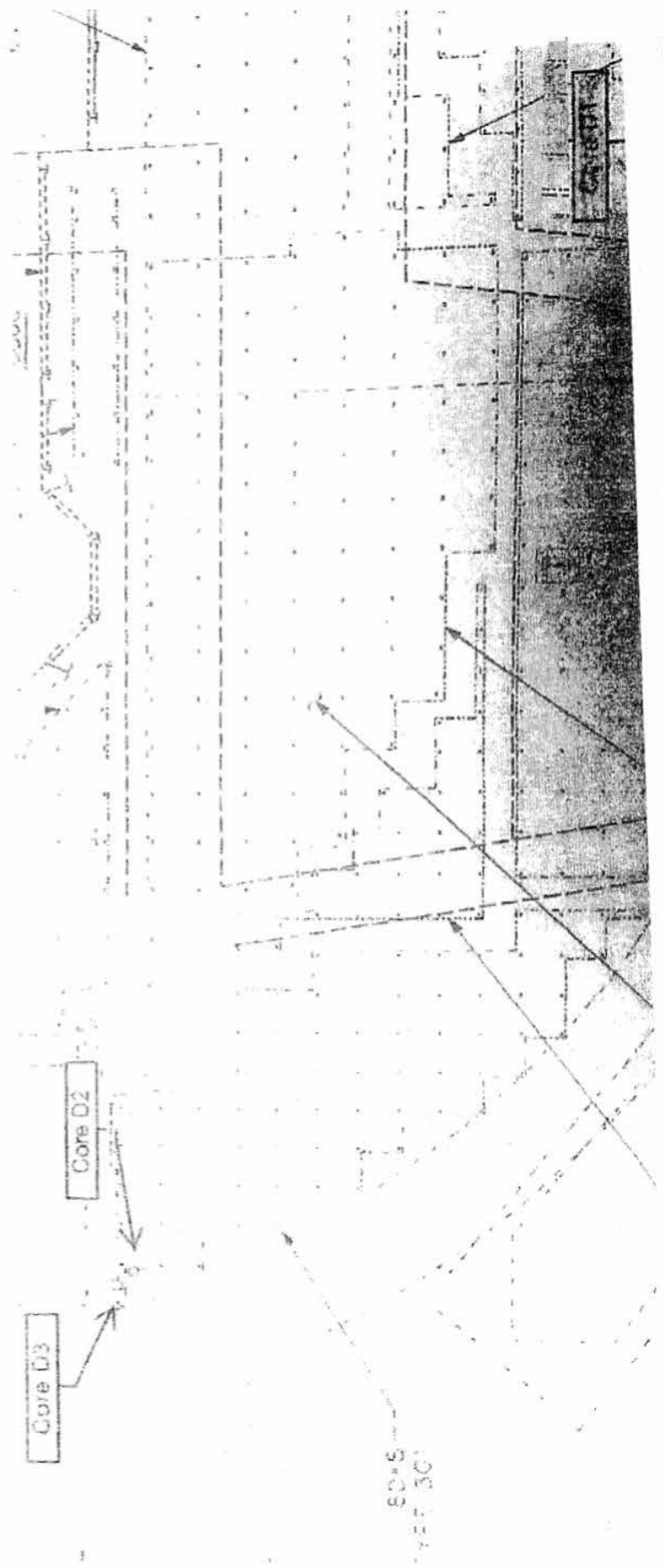
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A. NRC-Identified and Self Revealed Findings

Cornerstone: Construction/ Installation

Green. The inspectors identified an ITAAC finding of very low safety significance (Green) and associated non-cited violation (NCV) of 10 CFR Part 50, Appendix B, Criterion V, "Instructions, Procedures, and Drawings" for South Carolina Electric and Gas' (SCE&G) through their contractor CB&I Power, failed to implement appropriate procedures for coring into concrete. The licensee entered this issue into their corrective action program as CR-NND-15-00539.

The finding was associated with the Construction/ Installation cornerstone. The inspectors determined the performance deficiency was more than minor following the guidance in IMC 0613, "Power Reactor Construction Inspection Reports," Appendix E, Example 16. The inspectors evaluated the finding using the construction significance determination process and determined the finding was of very low safety significance (Green) because it was associated with a portion of a structure assigned to the intermediate risk importance column of the construction significance determination matrix. The finding was determined to be an ITAAC finding because it was material to the acceptance criteria of Unit 2 ITAAC 760 (3.3.00.02a.i.a). The acceptance criteria of this ITAAC requires that a reconciliation report is completed that concludes the "as-built" construction conforms to the approved design. This finding is associated with deviations from design requirements that would not have been reconciled by the licensee as required by the ITAAC, because CB&I failed to implement appropriate procedures that resulted in coring holes that impacted already installed safety related rebar and did not notify the design engineer of the impact.

The inspectors screened the finding for a possible construction safety focus component (CSFC) aspect in accordance with Appendix F, "Construction Safety Focus Components and Aspects," of IMC 0613, "Power Reactor Construction Inspection Reports." This finding has a cross-cutting aspect in the area of Human Performance, Procedure adherence because the licensee failed to ensure that individuals followed specific procedures [H.8]. (Section 2).

1. Review of Human Performance Issues, Procedure Violations, and Code Violations

a. Scope and Observations

The inspectors reviewed both implemented and existing procedures for the coring of holes in concrete and post installation of safety-related rebar. At the time of the incident, CB&I Power had procedures in place for the post-installation of anchors in concrete, which included requirements for grouted anchors and embedments. These procedures were reviewed for applicability to the coring performed for the post-installation of safety-related rebar. In addition, the procedures were reviewed for conformance with the licensing basis, applicable codes, and to ensure compliance with the requirements of 10 CFR Part 50 Appendix B for corrective actions and non-conformances (e.g. encountering rebar during coring and/or anchor installation).

The inspectors interviewed the CB&I craft directly involved with the core boring operations including the core boring machine operators, labor, and the foreman to understand how human performance tools such as pre-job briefs were used, fully understand operation of the core boring machine, training and qualifications for the craft, use of safety equipment such as ground fault interrupters, and evaluate the adequacy of a safety conscious work environment. Human

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performance tools were used, but the inspectors observed that they were primarily focused on industrial safety, and did not address possible negative interactions with systems, structures and components.

The inspectors also interviewed the three CB&I field engineers (one of whom was in training) directly involved in the core boring operations to understand how N&Ds were created and processed for this incident, the use of safety equipment and procedures such as ground fault interrupters, training and qualifications, and the implementation of quality assurance procedures. The inspectors observed that the field engineers performed their duties with little backup from supervision. For example, the field engineers were solely responsible for creating N&Ds, which describe the set of conditions from which the corrective actions for field activities are generated, and the independently developed the means and methods by which to accomplish those field activities. With respect to this incident, an error in the N&D for the selection of vertical dowel type contributed to contacting the CV bottom head and structural rebar during core boring operations. It was also observed that the N&D process was the favored means of dispositioning hardware issues and the 10 CFR Part 50, Appendix B corrective action program (CAP) was rarely used. While the field engineers were familiar with the CAP, they did appear to make use of it to document conditions adverse to quality, which could result in less effective evaluations of those conditions.

The inspectors interviewed the Westinghouse civil engineer who evaluated N&D VS2-CR01-GNR-000263 to relocate dowels within layer 2 of the basemat, the Westinghouse Site Engineering Manager, and Westinghouse Lead Mechanical Engineer...[VIOLATION?].

The inspectors reviewed the actions surrounding contact with the containment vessel (CV) bottom head in hole D2. Specifically, the inspectors reviewed the procedures used to conduct repairs to the CV to ensure they were in compliance with the requirements of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section III, Subsection NE. The inspectors also reviewed the repair traveler and N&D report for the repair. Ultrasonic thickness measurements and visual inspection of the as-repaired area were observed and verified to confirm the repair did not reduce the CV wall below the ASME required minimum design thickness.

b. Conclusion

Findings

Failure to Implement procedures for coring concrete and post installing anchors.

Introduction

An ITAAC finding of very low safety significance (Green) and associated non-cited violation (NCV) of 10 CFR Part 50, Appendix B, Criterion V, "Instructions, Procedures and drawings," was identified by the inspectors NRC for unanalyzed damaged to safety related structural rebar as a result of the failure by SCE&G, through their contractor CB&I Power, to adequately implement procedures for post-installing safety related rebar and coring into concrete.

Description

In early February 2015, CB&I Power was installing relocated dowels in preparation for the proposed Layer 3 of concrete inside the CVBH. The relocated dowels were being post-installed by coring into the existing concrete of Layer 2 (below the proposed Layer 3) and grouting the post-installed dowels in the cored holes. As stated above, 10 ~~ten~~ holes were cored. To prepare

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for grouting, each hole was filled with water to pre-soak the hole. However, one of the holes (R1) closest to the containment vessel wall did not hold water. A subsequent boroscope examination of that hole revealed that the drill penetrated concrete through the concrete and had impacted the containment vessel. Additionally, the core bit cut through safety-related rebar at this location. The contractor subsequently investigated potential rebar impact from coring at the other nine locations and determined safety-related rebar was impacted at the D2 and D7 core locations.

The VC Summer Unit 2 project had procedures in place for installing reinforcing steel and post installing rebar or anchors by coring and grouting. These procedures include corporate level procedures NCSP 3-33-1, Installation of Drilled-In Concrete Anchors and NCSP 3-42-1, Reinforcing Steel Installation, and site instruction CSI 3-40-0, Installation of Post Installed Anchors. Both corporate level procedures and site instructions were required to be followed.

NCSP 3-33-1 Section 4.0 and CSI 3-40-0 Section 4.0 both define a grouted anchor as "an anchor in which, a non-shrink cementitious or adhesive grout fills the annular space around the anchor and provides bonding to the anchor rod and wall of the drilled hole." Section 6.2.3 of CSI 3-40-0 states, in part, "For anchors that are installed with non-shrink cementitious grout or adhesive systems, a core drill may be used to drill the hole."

NCSP 3-33-1, Attachment 7.1, Drilled-In Concrete Anchor Installation Attributes is part of the construction quality completion (CQC) checklist that provides the attributes that need to be verified by a field engineer and superintendent. Attribute W90 states, in part, "Rebar has not been cut unless approved (list approval documents in remarks)." In addition, NCSP 3-33-1, Section 6.2.2 states, in part, "Discipline Construction Superintendent and responsible Field Engineer shall verify that reinforcing steel has not been cut." CSI 3-40-0 Section 6.2.1 states, in part, "post installed anchors shall not be drilled into structural rebar or embedded plates unless approved by the Engineer." NCSP 3-42-1 Section 6.6b states, in part, "any item, condition or material which deviates from drawings, specifications or other engineering requirements and cannot be resolved within the scope of such requirements, or otherwise requires an Engineering disposition, shall be reported in accordance with, NCSP 2-8, 'Nonconformance Reporting and Control'."

The contractor had failed to adequately implement procedures for post installing safety related rebar and coring into concrete. Specifically, the post-installation of grouting rebar dowels and coring was performed per the "Repair" dispositions in N&D VS2-CR01-GNR-00259 and N&D VS2-CR01-GNR-00263. These dispositions provided no approvals for cutting safety related rebar. The field engineer used the N&D's as the procedures and instructions for the repair but failed to incorporate or review CBAI procedures NCSP 3-33-1, CSI 3-40-0, and NCSP 3-42-1. The Field Engineer did not understand that these procedures applied to post-installed rebar and coring activities. Safety related rebar was contacted and cut at three core locations (R1, D2, and D7). Coring was not stopped by the Field Engineer or Construction Superintendent when rebar was contacted. In addition, the Field Engineer or Superintendent did not contact the Engineer for approval or to report the nonconformance of the impacted rebar, as required by the procedures. Prior to grout placement, neither the Field Engineer nor Construction Superintendent verified that rebar was not cut. As a result ITAAC 3.3.00.02a.1a was materially impacted because these two locations contained unanalyzed structural deviations from the original design that would not have been reconciled.

Analysis:

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The inspectors determined that the left in-place, damaged and unanalyzed structural rebar as a result of the failure to implement the appropriate procedures as required by 10 CFR Part 50, Appendix B, Criterion V, was a performance deficiency. The performance deficiency was more than minor following the guidance in IMC 0613, "Power Reactor Construction Inspection Reports," Appendix E, Example 16. Specifically, CB&I didn't implement the appropriate requirements for coring into concrete and impacting safety related rebar, thereby leaving the cutting of safety related rebar unacceptable or indeterminate.

The finding was determined to be an ITAAC finding because it was material to the acceptance criteria of Unit 2 ITAAC 760 (3.3.00.02a.1a). The acceptance criteria of this ITAAC requires that a reconciliation report, concluding the "as-built" construction conforms to the approved design, is completed for the areas associated with the ITAAC. The structural rebar that was impacted at holes D2 and D7, then subsequently grouted over, is included within the scope of ITAAC 760. The finding is associated with deviations from design requirements that would not have been reconciled by the licensee as required by the ITAAC.

The inspectors concluded this finding was associated with the Construction/Installation Cornerstone. The inspectors evaluated the finding using the construction SDP in accordance with IMC 2519, "Construction Significance Determination Process," Appendix A, "AP 1000 Construction Significance Determination Process" and determined that finding was of very low safety significance (Green) because it was associated with a portion of a structure assigned to the intermediate risk importance column and Row 2 of the construction significance determination matrix.

The inspectors screened the finding for a possible construction cross-cutting aspect in accordance with Appendix F, "Construction Cross-Cutting Components and Aspects" of IMC 0613. This finding has a cross-cutting aspect in the area of Human Performance, Procedure Adherence because the licensee failed to ensure that individuals followed the specified procedures [H.8].

Enforcement.

10 CFR Part 50, Appendix B, Criterion V, "Instructions, Procedures and Drawings" requires, in part, that "Activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings."

Contrary to the above, during coring and grouting in early February for the construction of Layer 3 concrete inside the CVBH, the licensee, through their contractor CB&I Power, failed to accomplish work by not implementing appropriate procedures for post-installing safety related rebar and coring into concrete. Specifically, coring was not stopped by the Field Engineer or Construction Superintendent when rebar was contacted at locations R1, D2, and D7 per procedures NCSP 3-33-1, CSI 3-40-0, and NCSP 3-42-1. In addition, the Field Engineer or Superintendent did not contact the Engineer, per the procedures, for approval or report the nonconformance of the impacted rebar. Prior to grout placement, neither the Field Engineer nor Construction Superintendent verified that rebar was not cut. As a result, core locations D2 and D7 were grouted with an unapproved, unanalyzed and unreconciled structural defect. If left uncorrected, this unanalyzed and unreconciled defect, in this portion of the structure, had the potential safety consequence of not meeting its design function per the UFSAR, Tier 1, Section 3.3.2.a). Corrective actions taken by the licensee, to date of this report, include: issuing a stop work order on all coring activities, reviewing and revising procedures for coring and post-

installing anchors in concrete, training of management and craft, developing new procedures for penetrating concrete, and analyzing the impacts of the cut structural rebar.

Because this violation was of very low safety significance (Green) and it was entered into the licensee's corrective action program as CR 15-0539, this violation is being treated as a non-cited violation (NCRV 05200027/2015009-021). Failure to implement procedures for coring concrete and post installing anchor URM 2 Containment Internal Structures Coring, consistent with Section 2.3.2 of the NRC Enforcement Policy and EGM 11-006.

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Oelstrom, Chad

From: Issa, Alfred
Sent: Wednesday, May 06, 2015 12:01 PM
To: Johnson, Andrea
Cc: Michel(R2), Eric; OBryan, Phil; Oelstrom, Chad
Subject: FW: VC Summer Rebar OpE article

I hate to bother you again but I received the following request regarding the availability of additional pictures. Any help would be greatly appreciated.

Thank you



Alfred Issa, P.E.
US NRC
Reactor Operations Engineer
alfred.issa@nrc.gov
(301) 415-5342

From: Thomas, Eric
Sent: Wednesday, May 06, 2015 11:54 AM
To: Issa, Alfred
Subject: VC Summer Rebar OpE article

Al,

I received some feedback on the OpE newsletter article that the pictures don't really tell the story of what happened. I plan to show one of the pictures linked in the power point slides to show overall orientation of the rebar in containment, but I'd like something that tells more about what the licensee went back and excavated.

This picture shows what I think is the gouge in containment after workers excavated some concrete to see what they hit and why the hole wasn't holding water. It is hard to explain that to the reader though, and if there is another picture from a little further back that shows the excavation and the different directions that the rebar is going in reference to the overall containment, it would be helpful. Also, I'm not sure if the white mark is something workers put there to mark the gouge in the containment, or if it's a reflection, but I think it actually takes away from the image.

Thanks for any assistance you or others in NRO/RII can provide. The existing pix are great, but I want to ensure the casual reader can figure this out on first glance.



Eric Thomas
U.S. Nuclear Regulatory Commission
NRR/DIRS/IOEB
OWFN-7E24
eric.thomas@nrc.gov
301-415-6772 (office)

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 (mobile)

Heisserer, Jamie

From: Heisserer, Jamie
Sent: Friday, May 01, 2015 8:43 AM
To: Yerokun, Jimi
Subject: RE: Draft EDO Daily Note (to be issued after exit meeting)

That works for me. The new things communicated by this are that the inspection is complete and the CV was repaired and rebar acceptable as-is. Those are the only items that had not previously been reported.

From: Yerokun, Jimi
Sent: Friday, May 01, 2015 8:41 AM
To: Heisserer, Jamie
Subject: RE: Draft EDO Daily Note (to be issued after exit meeting)

Jamie – Let's hold off on the Daily Note. In discussing this yesterday, we decided we can exercise the "should" option in 0350, as well as in its Appendix, for when a note is necessary and not write one. Nothing new is being communicated.

From: Heisserer, Jamie
Sent: Tuesday, April 28, 2015 5:15 PM
To: Yerokun, Jimi
Subject: Draft EDO Daily Note (to be issued after exit meeting)

(Update) On April 30, 2015, Region II conducted the exit meeting for the Special Inspection at V.C. Summer Unit 2. The inspection team evaluated damage to safety related rebar and the lower containment vessel head caused by a crew drilling through previously placed concrete, and reviewed the final root cause analysis for the event and engineering evaluations of the damaged rebar. The damage to the containment vessel was repaired successfully, and the damaged rebar was dispositioned as use-as-is. The team identified two green non-cited violations related to a failure to follow procedures and a failure to properly verify design.

Jamie M. Heisserer
Chief, Construction Inspection Branch 2
Region II - Division of Construction Inspection
U.S. Nuclear Regulatory Commission
(404) 997-4451 (Office)
(b)(6) (Cell)

Oelstrom, Chad

Subject: NRC Special Inspection EXIT
Location: (telecon) 1-803-217-5000 (b)(6)
Start: Thu 04/30/2015 2:00 PM
End: Thu 04/30/2015 2:30 PM
Recurrence: (none)
Meeting Status: Accepted
Organizer: SALTER, JAMES FINDLAY

When: Thursday, April 30, 2015 2:00 PM-2:30 PM (UTC-05:00) Eastern Time (US & Canada).
Where: (telecon) 1-803-217-5000 (b)(6)

Note: The GMT offset above does not reflect daylight saving time adjustments.

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This is the exit for the Special Inspection on Coring/CV. Please forward as needed.

The inspectors have completed their review of the provided Root Cause Analysis with SCE&G comments.

Preliminarily, there have been no additional violations identified since previous debrief.

TELECON INFO:

1. Call one of the following numbers:
Call in toll number: 1-803-217-5000
2. Follow the instructions that you hear on the phone:
Cisco Unified MeetingPlace meeting ID: (b)(6)

Oelstrom, Chad

From: Oelstrom, Chad
Sent: Thursday, April 30, 2015 7:01 AM
To: Michel(R2), Eric; OBryan, Phil
Subject: RE: CVBH RCA

Are we still exiting at 2:00 pm today?

Chad Oelstrom
Construction Resident Inspector
VC Summer Units 2 and 3
USNRC Region II, CCI-DCP-CPB4
Phone: 803-345-6856
Email: <mailto:chad.oelstrom@nrc.gov>

From: Michel(R2), Eric
Sent: Tuesday, April 28, 2015 9:01 AM
To: OBryan, Phil; Oelstrom, Chad
Subject: RE: CVBH RCA

Chad did a good job finding some provisions in their procedures that required them to stop and evaluate the cut rebar.

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From: OBryan, Phil
Sent: Tuesday, April 28, 2015 8:48 AM
To: Michel(R2), Eric; Oelstrom, Chad
Subject: RE: CVBH RCA

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From: Michel(R2), Eric
Sent: Tuesday, April 28, 2015 8:39 AM
To: OBryan, Phil; Oelstrom, Chad
Subject: RE: CVBH RCA

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Chad – you have any opinions on this?

From: OBryan, Phil
Sent: Tuesday, April 28, 2015 8:18 AM
To: Michel(R2), Eric; Oelstrom, Chad
Subject: RE: CVBH RCA

That one looks good for the first finding. (b)(5)

H.5

Work Management: The organization implements a process of planning, controlling, and executing work activities such that nuclear safety is the overriding priority. The work process includes the identification and management of risk commensurate to the work and the need for coordination with different groups or job activities

From: Michel(R2), Eric
Sent: Tuesday, April 28, 2015 8:10 AM
To: OBryan, Phil; Oelstrom, Chad
Subject: RE: CVBH RCA

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H.12

Avoid Complacency: Individuals recognize and plan for the possibility of mistakes, latent issues, and inherent risk, even while expecting successful outcomes. Individuals implement appropriate error reduction tools (QA.4). **

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From: OBryan, Phil
Sent: Tuesday, April 28, 2015 8:01 AM
To: Michel(R2), Eric; Oelstrom, Chad
Subject: RE: CVBH RCA

I think that is a good approach. (b)(5)

(b)(5)

From: Michel(R2), Eric
Sent: Tuesday, April 28, 2015 7:48 AM
To: OBryan, Phil; Oelstrom, Chad
Subject: RE: CVBH RCA

(b)(5)

(b)(5)

I'm scheduled to brief Jimi, Bill and Jamie at 11:30 this morning. If we want to have any additional conversation, I'll give you guys a call...email is painful for this stuff sometimes!

From: OBryan, Phil
Sent: Monday, April 27, 2015 2:12 PM
To: Oelstrom, Chad; Michel(R2), Eric
Subject: RE: CVBH RCA

(b)(5)

From: Oelstrom, Chad
Sent: Monday, April 27, 2015 2:04 PM
To: OBryan, Phil; Michel(R2), Eric
Subject: RE: CVBH RCA

(b)(5)

Chad Oelstrom
Construction Resident Inspector
VC Summer Units 2 and 3
USNRC Region II, CCI-DCP-CPB4
Phone: 803-345-6856
Email: <mailto:chad.oelstrom@nrc.gov>

From: OBryan, Phil
Sent: Monday, April 27, 2015 1:45 PM
To: Michel(R2), Eric; Oelstrom, Chad
Subject: RE: CVBH RCA

I reviewed the RCA this morning and have one observation. The RCA states a couple of times that neither the WEC Responsible Engineer nor the WEC Reviewer is required to review N&D's for technical accuracy. The RCA points out that this is a deficiency, but claims that neither GAP-428 nor WEC 3.3.3 required WEC engineering to review the technical accuracy of the N&D's. As we discussed during the SIT, we planned to use GAP section 7.18 in our "contrary to" statement. This section states that "a Deviation may be approved by the Site Design Engineering organizations when the following criteria are met:

7.18.1 Does not reduce the AP1000 Safety margin or impact a Licensing Basis Document..."

(b)(5)

From: Michel(R2), Eric
Sent: Monday, April 20, 2015 2:49 PM
To: Oelstrom, Chad; OBryan, Phil
Subject: FW: CVBH RCA

Chad and Phil,

FYI here is the CB&I root cause and associated SCE&G Project Letter. I'll be reviewing this week.

Eric

From: SANDERS, GARRETT R [<mailto:GARRETT.SANDERS@scana.com>]
Sent: Monday, April 20, 2015 10:52 AM
To: Michel(R2), Eric
Cc: SALTER, JAMES FINDLAY
Subject: CVBH RCA

Please let me know if you have any questions regarding the attached.

Oelstrom, Chad

From: Oelstrom, Chad
Sent: Tuesday, April 28, 2015 11:03 AM
To: OBryan, Phil; Michel(R2), Eric
Subject: RE: CVBH RCA

I remember the conversation and discussion. I remember Ed directing someone to the ECP but I do not remember who or the details. Sorry.

Chad Oelstrom
Construction Resident Inspector
VC Summer Units 2 and 3
USNRC Region II, CCI-DCP-CPB4
Phone: 803-345-6856
Email: <mailto:chad.oelstrom@nrc.gov>

From: OBryan, Phil
Sent: Tuesday, April 28, 2015 10:49 AM
To: Michel(R2), Eric; Oelstrom, Chad
Subject: RE: CVBH RCA

While de-conflicting our timeline of events with the RCA timeline, I ran into one problem. The RCA states that the Concrete Manager (CM) attempted to, but did not, inform the CB&I Site Director of the confirmed CVBH contact on Friday evening, feb. 13. Recall discussion with Ed Wills about this part of the timeline and his directing that an Employee Concern be submitted by the CM because the CM objected to Ed's presentation stating the timeline this way. I can contact Ed and get clarification, but I think that we are treading on sensitive ground here. What do you think? Is your recollection the same as mine?

From: Michel(R2), Eric
Sent: Monday, April 20, 2015 2:49 PM
To: Oelstrom, Chad; OBryan, Phil
Subject: FW: CVBH RCA

Chad and Phil,

FYI here is the CB&I root cause and associated SCE&G Project Letter. I'll be reviewing this week.

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From: SANDERS, GARRETT R [<mailto:GARRETT.SANDERS@scana.com>]
Sent: Monday, April 20, 2015 10:52 AM
To: Michel(R2), Eric
Cc: SALTER, JAMES FINDLAY
Subject: CVBH RCA

Please let me know if you have any questions regarding the attached.

Oelstrom, Chad

From: Oelstrom, Chad
Sent: Tuesday, April 28, 2015 10:04 AM
To: OBryan, Phil; Michel(R2), Eric
Subject: RE: CVBH RCA

(b)(5)

Chad Oelstrom
Construction Resident Inspector
VC Summer Units 2 and 3
USNRC Region II, CCI-DCP-CPB4
Phone: 803-345-6856
Email: <mailto:chad.oelstrom@nrc.gov>

From: OBryan, Phil
Sent: Tuesday, April 28, 2015 9:24 AM
To: Michel(R2), Eric; Oelstrom, Chad
Subject: RE: CVBH RCA

(b)(5)

From: Michel(R2), Eric
Sent: Tuesday, April 28, 2015 9:01 AM
To: OBryan, Phil; Oelstrom, Chad
Subject: RE: CVBH RCA

Chad did a good job finding some provisions in their procedures that required them to stop and evaluate the cut rebar.

(b)(5)

From: OBryan, Phil
Sent: Tuesday, April 28, 2015 8:48 AM
To: Michel(R2), Eric; Oelstrom, Chad
Subject: RE: CVBH RCA

(b)(5)

From: Michel(R2), Eric
Sent: Tuesday, April 28, 2015 8:39 AM

To: OBryan, Phil; Oelstrom, Chad
Subject: RE: CVBH RCA

(b)(5)

H.8

Procedure Adherence: Individuals follow processes, procedures, and work instructions (WP.4).

Chad – you have any opinions on this?

From: OBryan, Phil
Sent: Tuesday, April 28, 2015 8:18 AM
To: Michel(R2), Eric; Oelstrom, Chad
Subject: RE: CVBH RCA

That one looks good for the first finding.

(b)(5)

H.5

Work Management: The organization implements a process of planning, controlling, and executing work activities such that nuclear safety is the overriding priority. The work process includes the identification and management of risk commensurate to the work and the need for coordination with different groups or job activities

From: Michel(R2), Eric
Sent: Tuesday, April 28, 2015 8:10 AM
To: OBryan, Phil; Oelstrom, Chad
Subject: RE: CVBH RCA

(b)(5)

H.12

Avoid Complacency: Individuals recognize and plan for the possibility of mistakes, latent issues, and inherent risk, even while expecting successful outcomes. Individuals implement appropriate error reduction tools (QA.4). **

(b)(5)

From: OBryan, Phil
Sent: Tuesday, April 28, 2015 8:01 AM

To: Michel(R2), Eric; Oelstrom, Chad
Subject: RE: CVBH RCA

I think that is a good approach.

(b)(5)

(b)(5)

From: Michel(R2), Eric
Sent: Tuesday, April 28, 2015 7:48 AM
To: OBryan, Phil; Oelstrom, Chad
Subject: RE: CVBH RCA

(b)(5)

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Sent: Monday, April 27, 2015 2:12 PM
To: Oelstrom, Chad; Michel(R2), Eric
Subject: RE: CVBH RCA

(b)(5)

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To: OBryan, Phil; Michel(R2), Eric
Subject: RE: CVBH RCA

(b)(5)

Chad Oelstrom
Construction Resident Inspector
VC Summer Units 2 and 3
USNRC Region II, CCI-DCP-CPB4
Phone: 803-345-6856
Email: <mailto:chad.oelstrom@nrc.gov>

From: OBryan, Phil
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(b)(5)

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Sent: Monday, April 20, 2015 2:49 PM
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Subject: FW: CVBH RCA

Chad and Phil,

FYI here is the CB&I root cause and associated SCE&G Project Letter. I'll be reviewing this week.

Eric

From: SANDERS, GARRETT R [<mailto:GARRETT.SANDERS@scana.com>]
Sent: Monday, April 20, 2015 10:52 AM
To: Michel(R2), Eric
Cc: SALTER, JAMES FINDLAY
Subject: CVBH RCA

Please let me know if you have any questions regarding the attached.

Oelstrom, Chad

From: Oelstrom, Chad
Sent: Tuesday, April 28, 2015 9:22 AM
To: Michel(R2), Eric; OBryan, Phil
Subject: RE: CVBH RCA

(b)(5)

With regards to the CCA. I haven't looked at these for a week or two. When I did look at it, I thought multiple ones could apply. I will review again.

Chad Oelstrom
Construction Resident Inspector
VC Summer Units 2 and 3
USNRC Region II, CCI-DCP-CPB4
Phone: 803-345-6856
Email: <mailto:chad.oelstrom@nrc.gov>

From: Michel(R2), Eric
Sent: Tuesday, April 28, 2015 9:01 AM
To: OBryan, Phil; Oelstrom, Chad
Subject: RE: CVBH RCA

Chad did a good job finding some provisions in their procedures that required them to stop and evaluate the cut rebar.

(b)(5)

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To: OBryan, Phil; Oelstrom, Chad
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(b)(5)

(b)(5)

From: Michel(R2), Eric
Sent: Tuesday, April 28, 2015 7:48 AM
To: OBryan, Phil; Oelstrom, Chad
Subject: RE: CVBH RCA

(b)(5)

exit. Regarding GAP-428, my exit notes show we were leaning towards 7.25.3 at that time, but in hindsight WEC 3.3.3 looks like a more appropriate place to focus (and lines up well with a Crit III violation).

I'm scheduled to brief Jimi, Bill and Jamie at 11:30 this morning. If we want to have any additional conversation, I'll give you guys a call...email is painful for this stuff sometimes!

From: OBryan, Phil
Sent: Monday, April 27, 2015 2:12 PM
To: Oelstrom, Chad; Michel(R2), Eric
Subject: RE: CVBH RCA

(b)(5)

From: Oelstrom, Chad
Sent: Monday, April 27, 2015 2:04 PM
To: OBryan, Phil; Michel(R2), Eric
Subject: RE: CVBH RCA

(b)(5)

Chad Oelstrom
Construction Resident Inspector
VC Summer Units 2 and 3
USNRC Region II, CCI-DCP-CPB4
Phone: 803-345-6856
Email: <mailto:chad.oelstrom@nrc.gov>

From: OBryan, Phil
Sent: Monday, April 27, 2015 1:45 PM
To: Michel(R2), Eric; Oelstrom, Chad
Subject: RE: CVBH RCA

I reviewed the RCA this morning and have one observation. The RCA states a couple of times that neither the WEC Responsible Engineer nor the WEC Reviewer is required to review N&D's for technical accuracy. The RCA points out that this is a deficiency, but claims that neither GAP-428 nor WEC 3.3.3 required WEC

engineering to review the technical accuracy of the N&D's. As we discussed during the SIT, we planned to use GAP section 7.18 in our "contrary to" statement. This section states that "a Deviation may be approved by the Site Design Engineering organizations when the following criteria are met:

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Sent: Monday, April 20, 2015 2:49 PM
To: Oelstrom, Chad; OBryan, Phil
Subject: FW: CVBH RCA

Chad and Phil,

FYI here is the CB&I root cause and associated SCE&G Project Letter. I'll be reviewing this week.

Eric

From: SANDERS, GARRETT R [<mailto:GARRETT.SANDERS@scana.com>]
Sent: Monday, April 20, 2015 10:52 AM
To: Michel(R2), Eric
Cc: SALTER, JAMES FINDLAY
Subject: CVBH RCA

Please let me know if you have any questions regarding the attached.

Heisserer, Jamie

From: Heisserer, Jamie
Sent: Tuesday, April 28, 2015 5:15 PM
To: Yerokun, Jimi
Subject: Draft EDO Daily Note (to be issued after exit meeting)

(Update) On April 30, 2015, Region II conducted the exit meeting for the Special Inspection at V.C. Summer Unit 2. The inspection team evaluated damage to safety related rebar and the lower containment vessel head caused by a crew drilling through previously placed concrete, and reviewed the final root cause analysis for the event and engineering evaluations of the damaged rebar. The damage to the containment vessel was repaired successfully, and the damaged rebar was dispositioned as use-as-is. The team identified two green non-cited violations related to a failure to follow procedures and a failure to properly verify design.

Jamie M. Heisserer

Chief, Construction Inspection Branch 2
Region II - Division of Construction Inspection
U.S. Nuclear Regulatory Commission
(404) 997-4451 (Office)

(b)(6) (Cell)

Oelstrom, Chad

From: Oelstrom, Chad
Sent: Friday, April 24, 2015 6:49 AM
To: SALTER, JAMES FINDLAY
Subject: Accepted: NRC Special Inspection EXIT

Oelstrom, Chad

From: Oelstrom, Chad
Sent: Wednesday, April 22, 2015 3:21 PM
To: Michel(R2), Eric
Subject: RE: CVBH RCA

I have completed my write-ups. Please review. I still need to provide a list of documents.

Chad Oelstrom
Construction Resident Inspector
VC Summer Units 2 and 3
USNRC Region II, CCI-DCP-CPB4
Phone: 803-345-6856
Email: <mailto:chad.oelstrom@nrc.gov>

From: Michel(R2), Eric
Sent: Monday, April 20, 2015 2:49 PM
To: Oelstrom, Chad; OBryan, Phil
Subject: FW: CVBH RCA

Chad and Phil,

FYI here is the CB&I root cause and associated SCE&G Project Letter. I'll be reviewing this week.

Eric

From: SANDERS, GARRETT R [<mailto:GARRETT.SANDERS@scana.com>]
Sent: Monday, April 20, 2015 10:52 AM
To: Michel(R2), Eric
Cc: SALTER, JAMES FINDLAY
Subject: CVBH RCA

Please let me know if you have any questions regarding the attached.

Oelstrom, Chad

From: Ledford, Joey
Sent: Wednesday, April 15, 2015 1:15 PM
To: Michel(R2), Eric; Ernstes, Michael; Hannah, Roger
Cc: Heisserer, Jamie; Donnelly, Patrick; OBryan, Phil; Oelstrom, Chad; Musser, Randy; King, Michael
Subject: RE: NRC report on SCE&G unit 3 containment damage?

Thanks, Eric. And congrats on your new assignment.

Joey Ledford
Public Affairs Officer, Region II
U.S. Nuclear Regulatory Commission
O: 404.997.4416
C: (b)(6)
Joey.Ledford@NRC.gov

From: Michel(R2), Eric
Sent: Wednesday, April 15, 2015 12:44 PM
To: Ernstes, Michael; Ledford, Joey; Hannah, Roger
Cc: Heisserer, Jamie; Donnelly, Patrick; OBryan, Phil; Oelstrom, Chad; Musser, Randy; King, Michael
Subject: RE: NRC report on SCE&G unit 3 containment damage?

We're still waiting on the final root cause analysis from the licensee. It went to CARB today, so sometime soon I hope! We'll be exiting following the inspection of the RCA, so worst case is 45 days following that exit, but I'd expect something closer to 3-4 weeks just to get it through all the reviews and comments I'm expecting. Overall, my ballpark is end of May.

From: Ernstes, Michael
Sent: Wednesday, April 15, 2015 12:39 PM
To: Ledford, Joey; Hannah, Roger
Cc: Heisserer, Jamie; Michel(R2), Eric; Donnelly, Patrick
Subject: RE: NRC report on SCE&G unit 3 containment damage?

Jamie Heisserer and Eric Michel had the lead on that inspection. They would have the best answer.

Let me know if you don't get what you need.

Patrick Donnelly is going to give a brief discussion of the incident at the public meeting tomorrow.

Do you know if Tom C. is coming to the meeting?

From: Ledford, Joey
Sent: Wednesday, April 15, 2015 12:26 PM
To: Ernstes, Michael; Hannah, Roger
Subject: Fwd: NRC report on SCE&G unit 3 containment damage?

Mike: Can you help here?
Rough estimate is all I need.

Begin Forwarded Message:

From: "Tom Clements" <tomclements329@cs.com<mailto:tomclements329@cs.com>>

Subject: NRC report on SCE&G unit 3 containment damage?

Date: 15 April 2015 10:26

To: "roger.hanah@nrc.gov<mailto:roger.hanah@nrc.gov>"

<roger.hanah@nrc.gov<mailto:roger.hanah@nrc.gov>>

Cc: "Ledford, Joey" <Joey.Ledford@nrc.gov<mailto:Joey.Ledford@nrc.gov>>

Hello Roger & Joey,

When is the NRC report on damage to the SCE&G unit 2 containment (while cutting rebar) due out? Is it finished? When will it be released?

FYI, this news release isn't linked properly on the NRC's list of news releases:
02/23/2015

II-15-004<<http://pbadupws.nrc.gov/docs/ML1506/ML15065A341.pdf>>

NRC Begins Special Inspection at Summer Nuclear Plant Unit 2 Construction Site

The link is to this <http://pbadupws.nrc.gov/docs/ML1506/ML15065A341.pdf>, on Monticello.

Proper link is: <http://www.nrc.gov/reading-rm/doc-collections/news/2015/15-004.ii.pdf>

Thanks,

Tom Clements

SRS Watch<<http://www.srswatch.org/>>

Columbia, SC

Oelstrom, Chad

From: OELSTROM, CHAD <CHAD.OELSTROM@scana.com>
Sent: Wednesday, April 15, 2015 11:41 AM
To: Oelstrom, Chad
Subject: repair
Attachments: VS2-CR01-GNR-000297 2.pdf

Page 216 of 960

Withheld pursuant to exemption

(b)(4)

of the Freedom of Information and Privacy Act

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Withheld pursuant to exemption

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of the Freedom of Information and Privacy Act

Page 218 of 960

Withheld pursuant to exemption

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of the Freedom of Information and Privacy Act

Page 219 of 960

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Page 220 of 960

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of the Freedom of Information and Privacy Act

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of the Freedom of Information and Privacy Act

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of the Freedom of Information and Privacy Act

Page 226 of 960

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Page 227 of 960

Withheld pursuant to exemption

(b)(4)

of the Freedom of Information and Privacy Act

Page 228 of 960

Withheld pursuant to exemption

(b)(4)

of the Freedom of Information and Privacy Act

Heisserer, Jamie

From: Michel(R2), Eric
Sent: Monday, April 13, 2015 2:03 PM
To: Heisserer, Jamie; Musser, Randy
Cc: OBryan, Phil; Oelstrom, Chad
Subject: RE: SIT Information request 3-9-15

Got a call back from Findlay. "Final approval" only meant approval through CB&I. SCE&G CARB will review and provide comments this Wednesday.

Eric

From: Michel(R2), Eric
Sent: Monday, April 13, 2015 1:32 PM
To: Heisserer, Jamie; Musser, Randy
Subject: FW: SIT Information request 3-9-15

No word on the RCA. Left a voicemail with Findlay today, as well as last Friday.

Eric

From: SALTER, JAMES FINDLAY [<mailto:JAMES.SALTER@scana.com>]
Sent: Monday, April 06, 2015 4:05 PM
To: SALTER, JAMES FINDLAY; Michel(R2), Eric
Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbl.com'; 'Baucom, Charles'; Oelstrom, Chad; Heisserer, Jamie; Musser, Randy; ASHCRAFT, ZACHARY WAYNE
Subject: RE: SIT Information request 3-9-15

Eric,

Currently no change to target approval date. The team is continuing to incorporate comments from reviewers. Will notify you over the course of the week if anything changes.

J. Findlay Salter, EIT
Associate Engineer
New Nuclear Deployment - Licensing
SCE&G | V.C. Summer Nuclear Station
P.O. Box 88 | MC 846
Jenkinsville, SC 29065-0088
803.941.9855 Office
james.salter@scana.com



From: SALTER, JAMES FINDLAY
Sent: Monday, March 30, 2015 4:46 PM
To: SALTER, JAMES FINDLAY; Michel(R2), Eric
Cc: 'Donnelly, Patrick'; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE,

JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; 'Oelstrom, Chad';
'Heisserer, Jamie'; 'Musser, Randy'; ASHCRAFT, ZACHARY WAYNE
Subject: RE: SIT Information request 3-9-15

Eric,

To allow for final comment resolution we are now targeting 4/10/15 to issue final RCA.

Let me know if you need anything additional,

Findlay

From: SALTER, JAMES FINDLAY

Sent: Monday, March 23, 2015 12:41 PM

To: SALTER, JAMES FINDLAY; 'Michel(R2), Eric'

Cc: 'Donnelly, Patrick'; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; 'Oelstrom, Chad'; 'Heisserer, Jamie'; 'Musser, Randy'

Subject: RE: SIT Information request 3-9-15

Eric,

1. RCA finalization: RCA team is targeting April 3, as the completion (Final sign off) of the RCA.
2. CV Cores Disposition Update: See attached table for information concerning the CV Core holes.

All N&Ds are in workflow or are dispositioned. All RAIs have been answered. Daily OCC meetings have been discontinued.

Let me know if you need anything additional,

J. Findlay Salter, EIT

Associate Engineer

New Nuclear Deployment - Licensing

SCE&G | V.C. Summer Nuclear Station

P.O. Box 88 | MC 846

Jenkinsville, SC 29065-0088

803.941.9855 Office

james.salter@scana.com



From: SALTER, JAMES FINDLAY

Sent: Monday, March 16, 2015 12:35 PM

To: 'Michel(R2), Eric'

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; Oelstrom, Chad; Heisserer, Jamie; Musser, Randy

Subject: RE: SIT Information request 3-9-15

Eric,

I will plan to provide an update on 3/23.

Findlay

From: Michel(R2), Eric [<mailto:Eric.MichelR2@nrc.gov>]

Sent: Monday, March 16, 2015 12:34 PM

To: SALTER, JAMES FINDLAY

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; Oelstrom, Chad; Heisserer, Jamie; Musser, Randy

Subject: RE: SIT Information request 3-9-15

***This is an EXTERNAL email. Please do not click on a link or open any attachments unless you are confident it is from a trusted source.

Findlay,

Thanks for the update. Unless anything changes drastically in the interim, can we have another update next Monday (3/23)?

Eric

From: SALTER, JAMES FINDLAY [<mailto:JAMES.SALTER@scana.com>]

Sent: Monday, March 16, 2015 12:09 PM

To: Michel(R2), Eric

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; Oelstrom, Chad; Heisserer, Jamie

Subject: RE: SIT Information request 3-9-15

Eric,

3. RCA finalization: RCA team is targeting Friday, MARCH 25, as the completion (Final sign off) of the RCA.
4. CV Cores Disposition Update: See attached table for information concerning the CV Core holes.

Final QC Investigations are occurring in re-cored holes D3, D7 today to address VS2-CR01-GNR-000294, VS2-CR01-GNR-000295 RAI's.

Let me know if you need anything additional,

J. Findlay Salter, EIT

Associate Engineer

New Nuclear Deployment - Licensing

SCE&G | V.C. Summer Nuclear Station

P.O. Box 88 | MC 846

Jenkinsville, SC 29065-0088

803.941.9855 Office

james.salter@scana.com



From: Michel(R2), Eric [mailto:Eric.MichelR2@nrc.gov]

Sent: Tuesday, March 10, 2015 9:32 AM

To: SALTER, JAMES FINDLAY

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; Oelstrom, Chad; Heisserer, Jamie

Subject: RE: SIT Information request 3-9-15

***This is an EXTERNAL email. Please do not click on a link or open any attachments unless you are confident it is from a trusted source.

Findlay,

Thanks, this is very helpful. Can we ask for an update on Monday 3/16 to see if anything has changed? It would also help to get rough dates when the actions for the N&Ds for the holes will be completed. Again, those dates would be for our planning purposes only. Thanks.

Eric

From: SALTER, JAMES FINDLAY [mailto:JAMES.SALTER@scana.com]

Sent: Monday, March 09, 2015 4:11 PM

To: SALTER, JAMES FINDLAY; Michel(R2), Eric; Oelstrom, Chad

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'

Subject: RE: SIT Information request 3-9-15

CORRECTION

From: SALTER, JAMES FINDLAY

Sent: Monday, March 09, 2015 3:48 PM

To: 'Michel(R2), Eric'; 'Oelstrom, Chad'

Cc: 'Donnelly, Patrick'; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'

Subject: SIT Information request 3-9-15

Eric,

Per our conversation this morning:

5. RCA finalization: RCA team is targeting Friday, MARCH 20, as the completion (Final sign off) of the RCA.
6. CV Cores Disposition Update: See attached table for information concerning the CV Core holes.

The outstanding core locations were recently logically grouped and new N&Ds written to facilitate the retrieval of as-built information. The N&Ds will reference each other and will consider cumulative effects of these and other nonconformances.

As you'll see in the table, we're still in the process of gathering information at four locations (D3, D6 and D7). The information gathering process may lead to re-coring. The extent of those efforts has not yet been defined. As part of excavation D4 and D5 have been exposed for inspection. The cut #11 radial bar in R1 has been dispositioned as abandon in place.

I understand you have been able to review CB&I Services repair documentation.

Let me know if you need anything additional,

J. Findlay Salter, EIT

Associate Engineer

New Nuclear Deployment - Licensing

SCE&G | V.C. Summer Nuclear Station

P.O. Box 88 | MC 846

Jenkinsville, SC 29065-0088

803.941.9855 Office

james.salter@scana.com



Oelstrom, Chad

From: Santos, Cayetano
Sent: Wednesday, April 08, 2015 1:36 PM
To: Ernstes, Michael; Donnelly, Patrick; Chandler, Timothy; Karlovich, Nicholas; Oelstrom, Chad
Cc: Waters, Michael; Beardsley, James
Subject: FW: Closeout of OEDO-15-00222-RII- Briefing Package for Visit to Virgil C. Summer Nuclear Power Plant Units 2 and 3 on April 20, 2015
Attachments: Briefing Package Baran Visit VC Summer 4-20-15.docx; FW: CB&I Stop Work on Nuclear Island Work

All,

I am covering for Mike Waters this week so I reviewed the briefing package for Commissioner Baran's visit to Summer later this month. I have a few editorial comments. See attached for a redline strikeout version.

The Commission assistants are aware of the recent stop work at VC Summer last week. Jim Beardsley gave me some information that I have shared with them as well as the EDO/DEDOs. See attachment.

Would it be possible to include some of this information as part of the briefing book? It's not due to the Commission offices until 4/15 so I think we have some time to try to include it.

Thanks

Tanny Santos
Executive Technical Assistant, OEDO
301-415-7270

From: Dubose, Sheila
Sent: Tuesday, April 07, 2015 6:10 PM
To: Santos, Cayetano; Waters, Michael
Cc: McCree, Victor; Brown, Frederick; O'Donohue, Kathleen; Wert, Leonard; Jones, William; Khouri, George; Kent, Jonathan; Miles, Patricia; Lee, Pamela; Donnelly, Patrick; Chandler, Timothy; Karlovich, Nicholas; Oelstrom, Chad; Dubose, Sheila; Ernstes, Michael; Sloan, Kimberly
Subject: Closeout of OEDO-15-00222-RII- Briefing Package for Visit to Virgil C. Summer Nuclear Power Plant Units 2 and 3 on April 20, 2015

[View ADAMS P8 Properties ML15079A396](#)

[Open ADAMS P8 Package \(OEDO-15-00222 - Renee Taylor, OCM/JB Email re: Briefing Package Request for Site Visit to Virgil C. Summer Nuclear Power Plant Units 2 and 3 on April 20, 2015.\)](#)

DATE: April 7, 2015

TO: Michael Waters, OEDO and Cayetano (Tanny) Santos, OEDO

FROM: Victor McCree, Region II

SUBJECT: OEDO-15-00222-RII- Briefing Package for Visit to Virgil C. Summer Nuclear Power Plant Units 2 and 3 on April 20, 2015

ADAMS Accession No. ML15079A396(Package); ML15079A395(Incoming Request Ticket); ML15079A397(Incoming E-mail from Renee Taylor); ML15097A545(Region II Response)

Sheila H. DuBose, Administrative Assistant
Deputy Regional Administrator for Construction
Office of the Regional Administrator
U. S. NRC, Region II
Atlanta, GA 30303
(404) 997-4431

(b)(6)

On-Site Visit by Commissioner ~~Ostendorff~~ Baran

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EXECUTIVE SUMMARY

Purpose of the visit

- Meet with Licensee personnel, NRC resident inspectors (construction), and tour the construction site.

Persons to meet

NRC Region II (RII) personnel at Virgil C. Summer 2 & 3

- Fredrick Brown, Deputy Regional Administrator for Construction, RII
Cell Phone: 404-217-8555
- Patrick Donnelly, Acting Senior Resident Inspector, Summer Units 2 & 3
Office Phone: 803-345-6856
Cell Phone: 757-350-9314
- Timothy Chandler, Resident Inspector, Summer Units 2 & 3
- Nick Karlovich, Resident Inspector, Summer Units 2 & 3
- Chad Oelstrom, Acting Resident Inspector, Summer Units 2 & 3

Virgil C. Summer management team that could be present during this visit

- Stephen (Steve) Byrne, Chief Operating Officer and President, Generation and Transmission, SCE&G
- Jeffery (Jeff) Archie, Senior Vice President and Chief Nuclear Officer, SCE&G
- Ronald (Ron) Jones, Vice President of New Nuclear Operations, SCE&G
- Alan Torres, General Manager of New Construction, SCE&G
- Dave Lavigne, General Manager, Operational Readiness, SC&G
- Brad Stokes, General Manager, Engineering Services, New Nuclear Deployment, SC&G
- Larry Cunningham, Manager, Quality Systems, SC&G
- Paul Mothena, Manager, Nuclear Training, SC&G
- Andy Barbee, Director, Nuclear Training, SC&G
- April Rice, Nuclear Licensing Manager, SC&G
- Dan Gatlin (Unit 1), Vice President, Nuclear Operations, (Unit 1), SC&G
- George Lippard, General Manager, Nuclear Plant Operations (Unit 1), SC&G
- Bruce Thompson Manager, Nuclear Licensing (Unit 1), SC&G
- William (Bill) Macecevic, Vice President and Consortium Project Director (acting), WES
- Brian McIntyre, Consortium Licensing and Nuclear Safety Director, WES
- Rick Easterling, Acting Site Director, WES

Activities on Site

- Meet with construction and operating reactor resident inspectors
- Licensee presentations
- Tour construction site

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Agenda for On-Site Virgil C. Summer Nuclear Station, Units 2 & 3

VC Summer Units 2 & 3 - Monday April 20, 2015

8:14 am	Flight Departs Washington DC	
9:42 am	Arrive in Columbia, S.C. Airport	
10:30 am	Meet Fred Brown at Airport	
10:30 am - 11:30 pm	Drive to VC Summer	
11:30 am	Badging	NNOB
11:30 - 12:15	Lunch with Resident Inspectors	Room 145 B
12:15 pm - 1:15 pm	Meet Site Senior Managers Overview of Unit 1 and Unit 2/3	
1:15 pm - 3:30 pm	Units 3&42&3 Site Tour	NNOB, Rm 201
3:30 pm	Depart Site for Columbia Airport	

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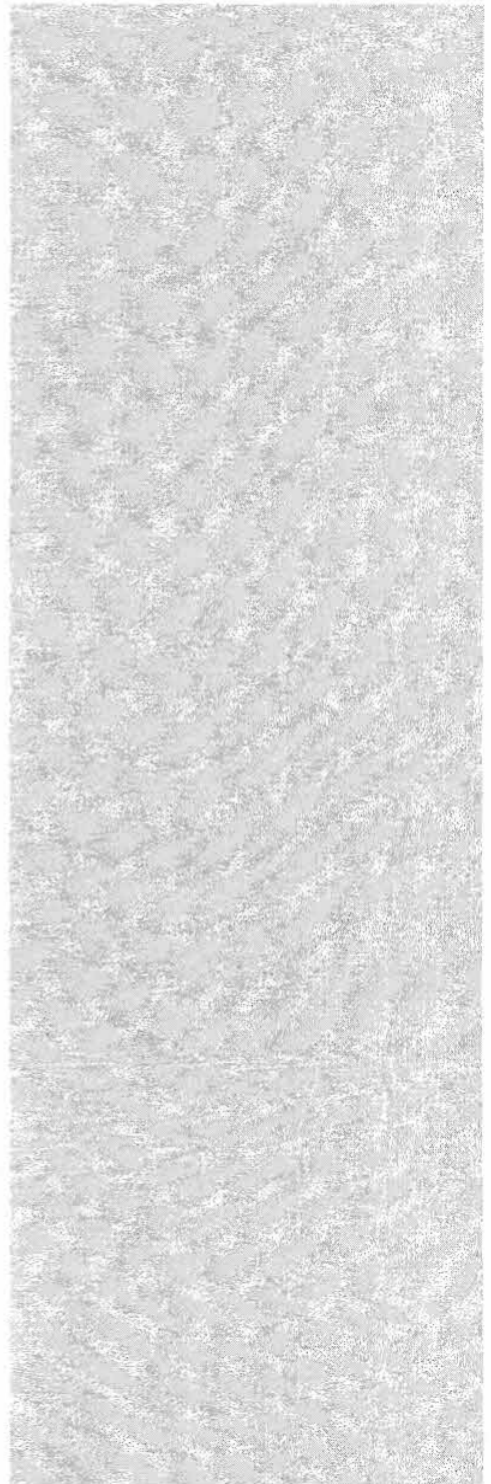
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Facility Location Map and Directions

Directions from Columbia Airport to VC Summer

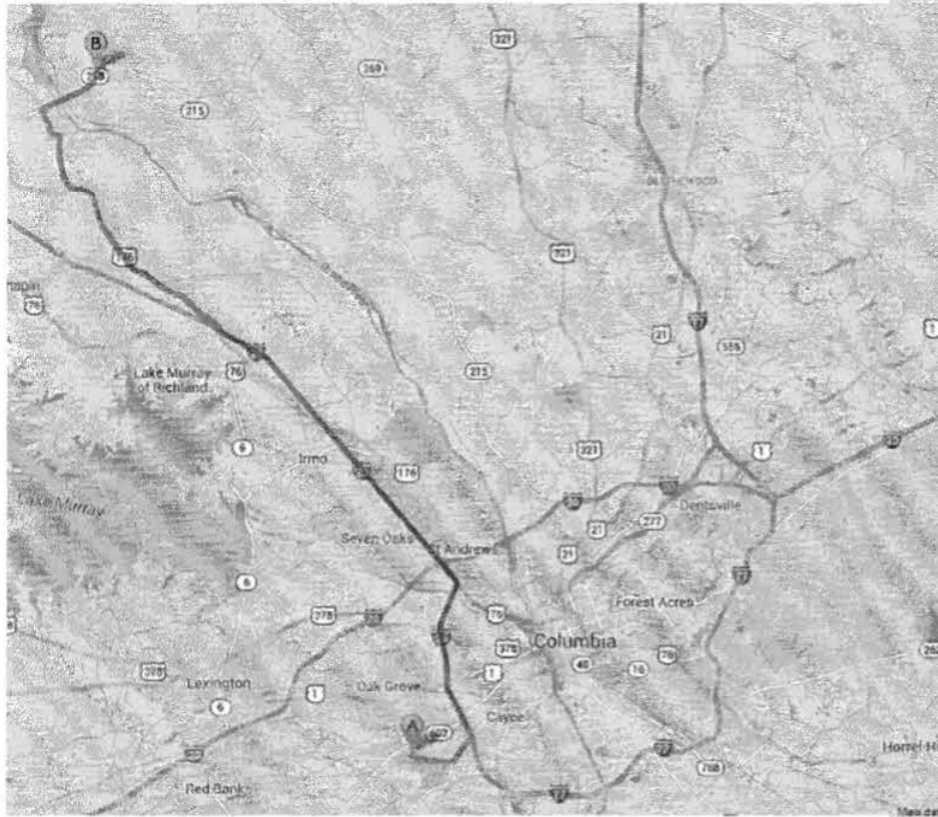
- | | |
|---|---------|
| 1. Head south on Airport Blvd | 0.9 mi |
| 2. Turn left onto Lexington Dr. | 312 ft. |
| 3. Take the 1st right onto John N. Hardee Expy | 0.6 mi |
| 4. Turn left onto SC-302/Airport Blvd/Edmund Rd | 1.0 mi |
| 5. Turn left toward I-26 W (signs for I-26 W/Spartanburg) | 499 ft. |
| 6. Take the ramp on the left onto I-26 W | 16.4 mi |
| 7. Take exit 97 for US-176 toward Peak | 0.3 mi |
| 8. Slight right onto US-176 W (signs for Peak/Pomaria) | 6.6 mi |
| 9. Slight right onto R Stoudemayer Rd/State Rd S-40-32 | 1.8 mi |
| 10. Continue onto Church St/Co Rd S-36-28 | 397 ft. |
| 11. Slight left onto Peak Bypass | 0.3 mi |
| 12. Turn right onto Mayer Rd | 0.1 mi |
| 13. Continue onto Broad River Rd | 0.7 mi |
| 14. Turn right onto SC-213 N | 2.2 mi |
| 15. Sharp left onto Parr Rd/State Rd S-20-16 | 0.1 mi |

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Directions from Columbia Airport to VC Summer



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Facility Data

Virgil C. Summer Nuclear Station, Units 2 & 3

Utility: South Carolina Electric & Gas
Location: 26 miles northwest of Columbia, South Carolina
County: Fairfield County

UNIT 2 UNIT 3

Docket Nos. 52-027 52-028
License Nos. NPF-93 NPF-94
COL Issuance 03/30/12 03/30/12

Plant Characteristics

All Units

Reactor Type	AP1000
Power Level	3400 MWt (>1100 MWe)
NSSS Vendor	Westinghouse

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Facility Unique Features

Virgil C. Summer Nuclear Station, Units 2 & 3

The combined license for Virgil C. Summer Nuclear Station Units 2 and 3 incorporates by reference the Westinghouse AP1000 certified design. The AP1000 reactor design is a PWR with a power rating of 3400 megawatts thermal and an electrical output of at least 1000 megawatts electric. The AP1000 design uses safety systems that rely on passive means, such as gravity, natural circulation, condensation and evaporation, and stored energy, for accident prevention and mitigation.

Virgil C. Summer Nuclear Station is owned by SCE&G and the South Carolina Public Service Authority (Santee Cooper). The plant is located in Fairfield County near Columbia, South Carolina. SCE&G owns two-thirds of Virgil C. Summer Nuclear Station and Santee Cooper owns one-third of the plant.

On March 30, 2012, the NRC issued the licenses NPF-93 and NPF-94 for Virgil C. Summer Nuclear Station Units 2 and 3, respectively.

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Non Responsive

February 25

NRC Conducts Special Inspection Into Containment Vessel Damage At Summer Plant Unit 2. In continuing coverage, World Nuclear News reported that the NRC has "started inspecting the construction site of VC Summer unit 2 for the cause and impact of 'inadvertent damage' to its containment vessel." The NRC said that during the week of 9 February, Chicago Bridge & Iron workers cut safety-related reinforcing bar and damaged the containment vessel bottom head while drilling into concrete. CB&I informed Scana Corporation "of the damage on 16 February, which then informed the NRC." The NRC said the three-man special inspection team will "review the events that led to the damage" and "develop its own assessment." The NRC said the inspectors would also "evaluate any potential effects on containment vessel integrity, any similar activities and corrective actions'."

Penn Energy noted that CB&I "did not report the damage to plant operator SCANA until Feb. 16 and SCANA reported it to the NRC."

Power Engineering reports that NRC Region II Administrator Victor McCree, said that while the "actual damage appears to have been minor, we want to make sure we completely understand its potential impact and the apparent breakdown in controls that might have prevented it." McCree added, "We are also concerned about the delay in CB&I reporting the issue."

Non Responsive

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Facility Organization

OVERVIEW OF SOUTH CAROLINA ELECTRIC & GAS and SCANA

Headquartered in Columbia, S.C., SCANA Corporation is a holding company principally engaged, through subsidiaries, in regulated electric and natural gas utility operations and other non-regulated energy-related businesses. SCANA's subsidiaries serve approximately 620,000 electric customers in South Carolina and more than one million natural gas customers in South Carolina, North Carolina and Georgia. Information about SCANA is available on the Company's web site at www.scana.com.

The Virgil C. Summer Nuclear Station, the company's only nuclear plant, is located approximately 30 miles north of Columbia in Jenkinsville, South Carolina. The single-unit facility generates 1000 megawatts of power using a pressurized water reactor. The station is jointly owned by SCE&G and Santee Cooper. SCE&G operates the station.

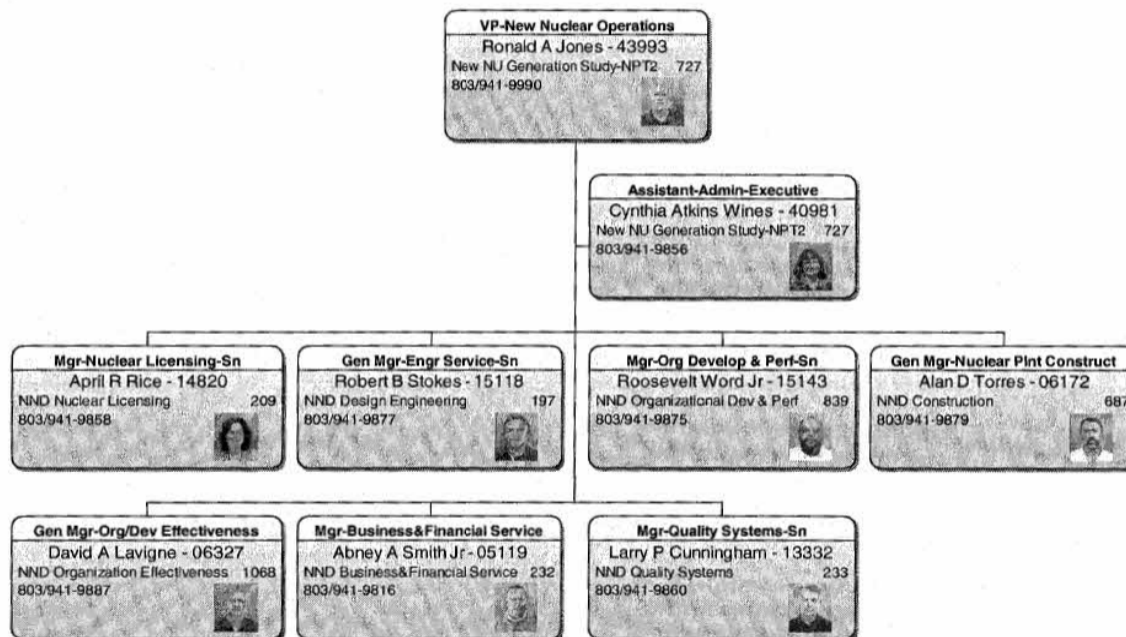
The organization chart for SCE&G is attached.

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OUTSIDE
SCOPE

EX. 6

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Stephen A. Byrne

*President, Generation and Transmission and Chief Operating Officer
South Carolina Electric & Gas Company
Executive Vice President, SCANA*

Stephen Byrne joined SCANA in 1995 and has more than 28 years of experience in the nuclear industry. He has served as SCE&G's chief nuclear officer and executive vice president for generation. As president of SCE&G generation and chief operating officer of SCE&G, Byrne is responsible for a diversified fleet of generation, including SCE&G's plans to construct two new nuclear plants, as well as demand side management, alternative energy strategies, system control and transmission planning and compliance. Prior to joining SCANA he obtained a Nuclear Regulatory Commission Senior Reactor Operator's License while working for a utility in Ohio.

Byrne serves on the South Carolina Governor's Nuclear Advisory Council, University of South Carolina College of Engineering & Computing Dean's Advisory Board, Westinghouse Quality Fuels Council, Savannah River National Lab Advisory Board and the United Way of the Midlands Community Impact Council. He is the current president of the Carolinas Virginia Nuclear Power Associates, Inc. Decommissioning Project and chairman of the nuclear industry's New Plant Oversight Committee.

A native of West Hartlepool, England, Byrne has a Bachelor of Science degree in engineering from Wayne State University.

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Jeffrey B. Archie
Senior Vice President and Chief Nuclear Officer
South Carolina Electric & Gas Company

Jeff Archie joined SCE&G in 1978 and began his career at Virgil C. Summer Nuclear Station, just a few miles from where he grew up. He's been in the nuclear industry for more than 30 years. Throughout his tenure at SCE&G, he has held several managerial positions with increasing leadership responsibilities including: general manager of engineering, general manager of nuclear plant operations and vice president of nuclear plant operations, where his duties included the overall leadership of the V.C. Summer Station's operations, engineering, training, and support organizations.

Archie was appointed to senior vice president and chief nuclear officer in May 2010. He is responsible for all nuclear matters, including the day-to-day management of nuclear operations, as well as the overall leadership and strategic direction for existing nuclear operations and new nuclear construction for SCE&G.

Archie is a member of the Institute of Nuclear Power Operations Executive Advisory Group, the Nuclear Energy Institute Nuclear Strategic Issues Advisory Committee and the University of South Carolina Mechanical Engineering Advisory Committee. Also, as a supporter of community organizations, Archie serves on the Fairfield County CEO Roundtable, Midlands Technical College QuickJobs Advisory Committee, the American Red Cross Board of Directors (Central South Carolina Chapter/Columbia Region) and the Palmetto Conservation Foundation Board.

He is a native of Jenkinsville, South Carolina, and a graduate of the University of South Carolina where he earned a Bachelor of Science degree in Mechanical Engineering in 1981.

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Ronald A. Jones
Vice President, New Nuclear Operations
South Carolina Electric & Gas Co.

Ron Jones is Vice President, New Nuclear Operations for Units 2 and 3 at SCE&G's V. C. Summer nuclear station and leads the organization responsible for operational readiness and construction of the two new AP1000 nuclear power plants. Jones joined SCE&G and was named to this position in July 2012. Jones retired from a 31 ½ year career with Duke Energy in December 2011. He most recently served as senior vice president of Nuclear Development for Duke Energy. He was named to this position in December 2010.

Previously, Jones served as senior vice president of Nuclear Operations for Duke Energy, from 2005 through 2010. During that period, he provided oversight for the safe and reliable operation of Duke Energy-operated nuclear stations – Catawba, McGuire and Oconee. He also held responsibility for corporate nuclear engineering and plant support groups. Jones has more than 33 years experience in the nuclear field. He joined Duke Power in 1980 as an engineer at Catawba Nuclear Station. He received his senior reactor operator license from the U.S. Nuclear Regulatory Commission in 1987. Jones held various Leadership positions at Catawba, McGuire and Oconee Nuclear stations. After a series of promotions, Jones was named as the vice president of Oconee Nuclear Station in 2002 and subsequently he assumed the role of senior vice president of Nuclear Operations in 2005.

Jones is a member of several organizations related to the Industry including the American Nuclear Society, Institute of Electrical and Electronic Engineers, NEI New Plant Working Group, INPO New Plant Development Executive Group and also currently chairs the EPRI Advanced Nuclear Technology Committee. He is also past chairman and past member of the Pressurized Water Reactors Owners Group Executive Management Group and Executive Committee; and past chairman of the Carolinas Nuclear Cluster. He has also served as a member of several Nuclear Energy Institute (NEI) industry groups: Workforce Working Group, Small Modular Reactor Working Group, New Plant Oversight Committee and Nuclear Security Working Group.

He previously chaired the APOG, an industry group formed to collaborate on and develop generic products for AP1000 new nuclear projects and was a member of the NuStart Energy Management Committee. Jones has served as a member of the Nuclear Safety Review Boards for both the Tennessee Valley Authority and Progress Energy. He is a graduate of the INPO Senior Nuclear Plant Management program. He is also a past member of the board of directors for Junior Achievement of the Central Carolinas in Charlotte, NC and the Lake Norman Charter School in Huntersville, NC.

The Salisbury, Md., native graduated from Virginia Tech in Blacksburg, Va., with a Bachelor of Science degree in Electrical Engineering in 1980.

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Thomas (Dan) D. Gatlin
Vice President, Nuclear Operations, South Carolina Electric & Gas Co.

Dan Gatlin is the Vice President of Nuclear Plant Operations for the V.C. Summer Nuclear Station, Unit 1. This position provides the overall guidance for the safe and reliable operation of the station. Area responsibilities include nuclear plant operations, engineering, nuclear safety, station support, plant administration, and financial operations.

Mr. Gatlin has 35 years' experience in the nuclear industry with 30 years at V.C. Summer Station. Prior assignments include General Manager of Nuclear Plant Operations, Operations Manager, and various supervisory and technical positions, both on and off shift.

Mr. Gatlin is recognized for his role in developing the probabilistic risk assessment model for the station. He is a registered professional engineer with the State of South Carolina and a former senior reactor operator and shift technical advisor.

Mr. Gatlin is a graduate of Christian Brothers University/Memphis with a degree in Electrical Engineering.

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David A. Lavigne
General Manager, Operational Readiness
South Carolina Electric & Gas Co.

David Lavigne is the General Manager, Operational Readiness for South Carolina Electric and Gas New Nuclear Deployment in Jenkinsville, South Carolina.

Mr. Lavigne became General Manager, Operational Readiness in April 2010. In this position, he is responsible for assuring the VC Summer AP1000 units successfully transition from the construction to the operational phase. This includes the areas of program and procedure development, staffing of the new units, oversight of the initial test program, and all other matters related to plant operational readiness.

Previous positions include management of the VC Summer Unit 1 training programs, quality systems, regulatory support, station nuclear security, materials and procurement and nuclear records and document control functions. Mr. Lavigne holds a Senior Reactor Operator Certification at VC Summer, Unit 1.

Before joining SCE&G in 1977, he spent six years in the nuclear submarine force with the US Navy. A graduate of the University of South Carolina, he has a Bachelors degree in Management Science.

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George A. Lippard, III
General Manager, Nuclear Plant Operations (Unit 1)
South Carolina Electric & Gas Co.

George Lippard is the General Manager, Nuclear Plant Operations for V. C. Summer Nuclear Station's existing Unit One and is responsible for the safe and reliable operation of the station. Lippard joined SCE&G in 1983 and was named to this position in February, 2010.

Previously, Mr. Lippard held positions as the Manager, Operations, Manager, Nuclear Licensing and Operating Experience, Refueling Outage Manager, and various other positions within the Operations and Training organizations.

Committed to leadership in all aspects of plant nuclear, radiological, and industrial safety, he chairs the site's Plant Safety Review Committee, Plant Health Committee, ALARA Committee, and Safety Steering Committee. Mr. Lippard is a former Senior Reactor Operator License holder and a former Shift Technical Advisor, and also held an Instructor Certification from the Nuclear Regulatory Commission. He is a member of INPO's Working Group on Leadership Education and a graduate of INPO's Senior Nuclear Plant Management Course, which he has also mentored.

The Columbia, SC native graduated from Clemson University, with a Bachelor of Science degree in Mechanical Engineering and from the University of South Carolina with a Masters of Business Administration.

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BRUCE L. THOMPSON
Manager, Nuclear Licensing
South Carolina Electric & Gas Company

Bruce L. Thompson began his service with SCE&G in 1985 after four years at Gilbert Associates Inc. and eight years in the Navy Submarine Service. He is a graduate of Limestone College. A Certified

Senior Reactor Operator, he has held positions in Quality Assurance and Nuclear Operations Training. Bruce is currently the Manager of Nuclear Licensing.

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Robert Bradford (Brad) Stokes

General Manager, Engineering Services, New Nuclear Deployment

A graduate of the Clemson University with an undergraduate degree in Mechanical Engineering, Brad began his service with SCE&G in 1990 after working for seven years in the Nuclear Engineering Department at Charleston Naval Shipyard. During his time at SCE&G he has worked in engineering and supervisory positions in Plant Support Engineering, supervisor in engineering training and supervision and management positions in Design Engineering. A Certified Senior Reactor Operator and registered professional engineer, he now is a part of the management staff which is in the process of licensing and constructing two new nuclear plants at SCE&G's V.C. Summer Nuclear Station.

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April R. Rice
Nuclear Licensing Manager

April Rice has over 30 years of experience in the nuclear industry primarily in licensing and engineering. She is currently the Licensing Manager for V. C. Summer Units 2 and 3 and is responsible for activities supporting the licensing of the two new AP 1000 plants. Prior to this, April served as the Environmental Project Manager responsible for oversight of the environmental review team and development of the Environmental Report for the project.

Before joining the New Nuclear Deployment team, April worked at V. C. Summer Unit 1 in Licensing, Plant Support Engineering and Performance Improvement. She received an SRO Certification for Unit 1 in 1995. Prior to joining South Carolina Electric & Gas, April was a Senior Engineer with Impell Corporation.

April has a Bachelor of Science degree in Nuclear Engineering from N. C. State University and is a registered Professional Engineer in the State of South Carolina.

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Alan D. Torres

*General Manager of Nuclear Construction New Nuclear Deployment
South Carolina Electric & Gas Company*

Alan D. Torres is the General Manager of Nuclear Construction for New Nuclear Deployment Unit's 2 and 3 at SCE&G's V.C. Summer nuclear station. Alan was appointed to this position in 2007. He manages the oversight of the EPC contract and construction activities for VC Summer Units 2 and 3.

Torres has more than 38 years with SCE&G at VC Summer Unit 1 and Units 2 and 3 in the nuclear construction field. He joined SEC&G in 1976 working with Construction oversight. He has held various supervisor and manager positions with SCE&G. Torres worked as an Inspection Supervisor, QC Manager, and a QA Supervisor. He received his senior reactor operator certification in 1996. Torres performed qualification for Shift Engineer and was an Outage and Work Control Manager with SCE&G.

Torres is a graduate of Limestone College where he received his Bachelor degree in Business and his Associate degree in Architectural Engineering at Midlands Technical College.

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Resumes of Resident Inspectors



Patrick B. Donnelly

*Senior Construction Resident Inspector (Acting), VC Summer Units 2&3
Division of Construction Projects, Construction Projects Branch 4*

Mr. Donnelly joined the NRC in November, 2008, as a project manager for the AP1000 design certification amendment. In January, 2011 Mr. Donnelly was accepted into the Resident Inspector Development Program in RII and was subsequently assigned to the V.C. Summer construction project as a Resident Inspector in February 2012. Mr. Donnelly is currently the acting Senior Resident for the V.C. Summer project.

Patrick Donnelly began his career at Newport News Shipbuilding after graduating from Virginia Tech with a Bachelor's Degree in Mechanical Engineering in 2004. Mr. Donnelly worked in the test engineering, nuclear engineering and advanced concepts departments while at the shipyard and received an MBA from the College of William and Mary in May of 2008.

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Timothy Chandler

*Construction Resident Inspector, V.C. Summer Units 2 & 3
Division of Construction Projects, Construction Projects Branch 4*

Timothy Chandler began his career in the NRC's resident inspector development program in November 2007. In March 2008, he was selected as the resident inspector at the Vogtle Electric Generating Station and continued in that position until the end of May 2014. In June 2014, he assumed the duties of construction resident inspector at the V.C. Summer Units 2 and 3 Construction Site.

For 15 years prior to the NRC, Mr. Chandler worked as a lead process engineer in various DOE facilities at the Savannah River Site, and was involved with the radioactive startup of two different DOE facilities. Prior to SRS, he spent 5 years working as a contract senior reactor operator at various commercial nuclear facilities, developing and conducting licensed operator training. Mr. Chandler is an 11-year veteran of the US Navy's nuclear power program, and was qualified reactor operator on two different submarine reactor designs. Mr. Chandler graduated summa cum laude from the University of Maryland with a Bachelor of Science degree in Hazardous Materials Management.

He has been married to his wife Maria for nearly 25 years, and has two adult children.

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Nick Karlovich

*Construction Resident Inspector, V.C. Summer 2 & 3
Division of Construction Projects, Construction Projects Branch 4*

Mr. Karlovich was recently selected as a construction resident inspector at V.C. Summer Units 2 and 3 Construction Site and assumed his duties there in January 2015.

Previous to his assignment as resident inspector, Mr. Karlovich was a construction inspector in the Electrical Construction Inspection Branch in the Division of Construction. Mr. Karlovich participated in the software inspections associated with the Protection and Safety Monitoring System (PMS) for Vogtle. Mr. Karlovich visited the AP1000 Sanmen site in China in September, 2012. He was also a construction resident inspector at the Watts Bar 2 site from February 24, 2014 through January 9, 2015. Mr. Karlovich joined the Nuclear Regulatory Commission in June 2008 through the Nuclear Safety Professional Development Program (NSPDP).

Mr. Karlovich received his bachelor's degree in Electrical Engineering from the University of Florida in December of 2007.

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Chad Oelstrom

*Construction Resident Inspector (rotation), V.C. Summer Units 2 & 3
Division of Construction Projects, Construction Projects Branch 4*

Chad Oelstrom joined the Nuclear Regulatory Commission in January 2011, as a Construction Inspector in the Division of Construction Inspection. He is currently on rotation as a Resident Inspector at the VC Summer Units 2 and 3 AP1000 construction sites through mid- June 2015.

As a construction inspector, Mr. Oelstrom completed a rigorous inspector qualification program. He performed a variety of inspections, mainly focusing on Civil/structural inspections at fuel facilities and reactors under construction. Mr. Oelstrom has provided resident support at Watts Bar 2 and current AP1000 sites under construction.

Prior to joining the NRC, Mr. Oelstrom was a professional licensed Civil Engineer in the private sector. As a licensed engineer, he designed, managed, consulted, inspected and/ or performed testing on a large number of private, government, and municipal facilities and projects. He still maintains his license in the state of Georgia, today.

Mr. Oelstrom received his Bachelor of Science Degree in Civil Engineering from Iowa State University, in Ames, Ia., in 1998.

~~OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION~~

Oelstrom, Chad

From: Beardsley, James
Sent: Monday, April 06, 2015 4:25 PM
To: Santos, Cayetano
Cc: Valentin, Andrea; Cheok, Michael; Heher, Patrick; Jones, William; Fredette, Thomas; Johnson, Andrea; OBryan, Phil
Subject: FW: CB&I Stop Work on Nuclear Island Work

Tanny,

Below is the latest information we have on the stop work order issued at the VC Summer Unit 2 construction site last Thursday. Please let us know if you have any questions. I would be happy to help you talk though it if that is requested.

Background:

An event occurred inside the VC Summer Unit 2 Nuclear Island (NI) Containment Vessel on Thursday, 4/2, involving the installation of an Overlay Plate (OLP) inside the CB65 module. Holes were required to be drilled through the side of the module to feed OLP rebar through. During this activity, a hole in the incorrect location was drilled. Upon initial investigation, human behavior and work control issues were identified. A corrective action report (CAR) was initiated to document the breakdown. In addition, a nonconformance & deviation report (N&D) was generated to document the hardware issue with the incorrectly drilled hole. Following the event, CB&I issued an stop work order for all activity in the VC Summer Unit 2 nuclear Island.

Current Status:

CB&I has developed a Conditional Release Plan for the stop work order. Today (Monday, April 6th), there will be a series of All Hands meetings, Expectation Sessions with Construction Leadership and training on the procedures for Pre-job Briefings, 2 minute drills and Work Packages. Monday afternoon will involve reviews of work packages and submittals of requests for release of work from the Superintendents to the Site Director and Senior Construction Manager. There will be sessions scheduled for the nightshift as well.

This is a near term initiative to return to work in the U2 NI, however the consortium will be reviewing and developing what the longer term process will be to perform work in the Unit 2 NI and also the rest of the project.

Jim Beardsley
Chief, Construction Inspection Program Branch (CIPB)
U.S. Nuclear Regulatory Commission
Office of New Reactors
Division of Construction, Inspection, & Operational Programs
Office: T-7D49
MS: T-7D24
W: (301) 415-5998
C: (b)(6)

-----Original Message-----

From: Cheok, Michael
Sent: Monday, April 06, 2015 10:58 AM
To: Beardsley, James
Cc: Valentin, Andrea
Subject: FW: CB&I Stop Work on Nuclear Island Work

Jim - please work with your regional counterparts to keep the DEDOs updated. Thanks

Mike

-----Original Message-----

From: Santos, Cayetano
Sent: Monday, April 06, 2015 10:03 AM
To: Cheek, Michael; Valentin, Andrea
Subject: FW: CB&I Stop Work on Nuclear Island Work

Mike/Andrea,

As you get updated information regarding this could you send it to me so I can keep the DEDOs and reactor CAs updated?

Thank you.

Tanny

-----Original Message-----

From: Tracy, Glenn
Sent: Friday, April 03, 2015 10:46 AM
To: Johnson, Michael; Santos, Cayetano
Subject: Fw: CB&I Stop Work on Nuclear Island Work

FYI

----- Original Message -----

From: Cheek, Michael
Sent: Friday, April 03, 2015 08:04 AM
To: Tracy, Glenn; Holahan, Gary; Tappert, John
Cc: Valentin, Andrea
Subject: FW: CB&I Stop Work on Nuclear Island Work

Please see below. CB&I has imposed a stop-work at Summer. The Resident does not believe that there is a safety significance to the issue, but given the previous core boring issue, the root cause / corrective actions probably should be relooked at again.

From: Donnelly, Patrick
Sent: Thursday, April 02, 2015 4:40 PM
To: Ernstes, Michael; Heher, Patrick
Cc: Fredette, Thomas
Subject: CB&I Stop Work on Nuclear Island Work

Mike-

I just received a call from Alan Torres. CB&I management has issued a self-imposed stop work order on all work in the nuclear islands. Apparently field personnel had drilled into an embed plate in preparation for securing CB65 and drilled the hole in the wrong location. This on the heels of the core drilling incident has pushed them to declare a stop work. Note: I do not believe there is any safety significance to the issue. The stop work is due to the craft and field engineering's apparent lack of ability to execute field work.

It should also be noted that the construction site will be shut down for Good Friday through Easter anyway, so there really isn't any impact on schedule yet. No word yet on a plan for lifting the stop work either.

I will provide more information as it becomes available.

Oelstrom, Chad

From: Oelstrom, Chad
Sent: Monday, March 30, 2015 1:42 PM
To: Michel(R2), Eric
Subject: RE: Periodic Operating Experience Newsletter Article (Summer 2 SIT)
Attachments: AJ revision Summer Unit 2 SIT (3) -CNO Comments.docx

See attached.

Chad Oelstrom
Construction Resident Inspector
VC Summer Units 2 and 3
USNRC Region II, CCI-DCP-CPB4
Phone: 803-345-6856
Email: <mailto:chad.oelstrom@nrc.gov>

From: Michel(R2), Eric
Sent: Monday, March 30, 2015 1:17 PM
To: Oelstrom, Chad
Subject: RE: Periodic Operating Experience Newsletter Article (Summer 2 SIT)

Chad,

I talked to AI. Please make the changes reflective of our current understanding of the situation, and please keep it to a few sentences. Thanks for reviewing this.

Eric

From: Oelstrom, Chad
Sent: Monday, March 30, 2015 11:01 AM
To: Michel(R2), Eric
Cc: OBryan, Phil
Subject: RE: Periodic Operating Experience Newsletter Article (Summer 2 SIT)

See my attached revisions.

Chad Oelstrom
Construction Resident Inspector
VC Summer Units 2 and 3
USNRC Region II, CCI-DCP-CPB4
Phone: 803-345-6856
Email: <mailto:chad.oelstrom@nrc.gov>

From: Michel(R2), Eric
Sent: Monday, March 30, 2015 7:12 AM
To: Oelstrom, Chad
Cc: OBryan, Phil
Subject: FW: Periodic Operating Experience Newsletter Article (Summer 2 SIT)

Chad,

Can you take a look at this for any comments you might have? Are we good with the statement that drilling cut into "horizontal" rebar in two locations? Is two accurate, and are we more correct in calling that radial rebar? Thanks.

Eric

From: Michel (OGC), Eric
Sent: Friday, March 27, 2015 3:40 PM
To: Michel(R2), Eric
Subject: FW: Periodic Operating Experience Newsletter Article (Summer 2 SIT)

From: Johnson, Andrea
Sent: Friday, March 27, 2015 3:16 PM
To: Issa, Alfred; Thomas, Eric
Cc: Michel (OGC), Eric; OBryan, Phil; Fredette, Thomas; Anderson, Brian
Subject: RE: Periodic Operating Experience Newsletter Article (Summer 2 SIT)

Al, see revisions in the attached. (b)(5)

(b)(5) Unless Phil or Tom have additional changes, please use this version.

From: Issa, Alfred
Sent: Friday, March 27, 2015 3:00 PM
To: Thomas, Eric
Cc: Michel (OGC), Eric; OBryan, Phil; Fredette, Thomas; Johnson, Andrea; Anderson, Brian
Subject: Periodic Operating Experience Newsletter Article (Summer 2 SIT)

Hi Eric T.,

Please review the attached draft article regarding the Summer 2 SIT and provide me with comments (b)(5)

(b)(5)

Everybody else,

Please review especially for accuracy and provide me with any additional information/links that the NRC staff at large may be interested in, keeping in mind space limitations. Also, if you have a better sketch than Figure 1, please let me know. I may delete Photo 2 if I have to in order to meet space limitations. I would appreciate it if you can provide me with your comments and inputs by April 2nd, 2015.

Thank you

Al

Page 265 of 960

Withheld pursuant to exemption

(b)(4),(b)(5)

of the Freedom of Information and Privacy Act

Page 266 of 960

Withheld pursuant to exemption

(b)(4),(b)(5)

of the Freedom of Information and Privacy Act

Oelstrom, Chad

From: Oelstrom, Chad
Sent: Monday, March 23, 2015 12:59 PM
To: Michel(R2), Eric
Subject: RE: SIT Information request 3-9-15

Not yet. Still need to review the last two. Also, I want to go back through the others and double check some info.

Chad Oelstrom
Construction Resident Inspector
VC Summer Units 2 and 3
USNRC Region II, CCI-DCP-CPB4
Phone: 803-345-6856
Email: <mailto:chad.oelstrom@nrc.gov>

From: Michel(R2), Eric
Sent: Monday, March 23, 2015 12:53 PM
To: Oelstrom, Chad
Subject: FW: SIT Information request 3-9-15

Chad,

You finding any issues with the dispositions?

From: SALTER, JAMES FINDLAY [<mailto:JAMES.SALTER@scana.com>]
Sent: Monday, March 23, 2015 12:41 PM
To: SALTER, JAMES FINDLAY; Michel(R2), Eric
Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; Oelstrom, Chad; Heisserer, Jamie; Musser, Randy
Subject: RE: SIT Information request 3-9-15

Eric,

1. RCA finalization: RCA team is targeting April 3, as the completion (Final sign off) of the RCA.
2. CV Cores Disposition Update: See attached table for information concerning the CV Core holes.

All N&Ds are in workflow or are dispositioned. All RAIs have been answered. Daily OCC meetings have been discontinued.

Let me know if you need anything additional,

J. Findlay Salter, EIT
Associate Engineer
New Nuclear Deployment - Licensing
SCE&G | V.C. Summer Nuclear Station
P.O. Box 88 | MC 846
Jenkinsville, SC 29065-0088
803.941.9855 Office

james.salter@scana.com



From: SALTER, JAMES FINDLAY

Sent: Monday, March 16, 2015 12:35 PM

To: 'Michel(R2), Eric'

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYI F MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; Delstrom, Chad; Heisserer, Jamie; Musser, Randy

Subject: RE: SIT Information request 3-9-15

Eric,

I will plan to provide an update on 3/23.

Findlay

From: Michel(R2), Eric [<mailto:Eric.MichelR2@nrc.gov>]

Sent: Monday, March 16, 2015 12:34 PM

To: SALTER, JAMES FINDLAY

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; Delstrom, Chad; Heisserer, Jamie; Musser, Randy

Subject: RE: SIT Information request 3-9-15

***This is an EXTERNAL email. Please do not click on a link or open any attachments unless you are confident it is from a trusted source.

Findlay,

Thanks for the update. Unless anything changes drastically in the interim, can we have another update next Monday (3/23)?

Eric

From: SALTER, JAMES FINDLAY [<mailto:JAMES.SALTER@scana.com>]

Sent: Monday, March 16, 2015 12:09 PM

To: Michel(R2), Eric

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; Delstrom, Chad; Heisserer, Jamie

Subject: RE: SIT Information request 3-9-15

Eric,

3. RCA finalization: RCA team is targeting Friday, MARCH 25, as the completion (Final sign off) of the RCA.
4. CV Cores Disposition Update: See attached table for information concerning the CV Core holes.

Final QC Investigations are occurring in re-cored holes D3, D7 today to address VS2-CR01-GNR-000294, VS2-CR01-GNR-000295 RAI's.

Let me know if you need anything additional,

J. Findlay Salter, EIT
Associate Engineer
New Nuclear Deployment - Licensing
SCE&G | V.C. Summer Nuclear Station
P.O. Box 88 | MC 846
Jenkinsville, SC 29065-0088
803.941.9855 Office
james.salter@scana.com



From: Michel(R2), Eric [<mailto:Eric.MichelR2@nrc.gov>]
Sent: Tuesday, March 10, 2015 9:32 AM
To: SALTER, JAMES FINDLAY
Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; Oelstrom, Chad; Heisserer, Jamie
Subject: RE: SIT Information request 3-9-15

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Findlay,

Thanks, this is very helpful. Can we ask for an update on Monday 3/16 to see if anything has changed? It would also help to get rough dates when the actions for the N&Ds for the holes will be completed. Again, those dates would be for our planning purposes only. Thanks.

Eric

From: SALTER, JAMES FINDLAY [<mailto:JAMES.SALTER@scana.com>]
Sent: Monday, March 09, 2015 4:11 PM
To: SALTER, JAMES FINDLAY; Michel(R2), Eric; Oelstrom, Chad
Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'
Subject: RE: SIT Information request 3-9-15

CORRECTION

From: SALTER, JAMES FINDLAY
Sent: Monday, March 09, 2015 3:48 PM
To: 'Michel(R2), Eric'; 'Oelstrom, Chad'
Cc: 'Donnelly, Patrick'; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'
Subject: SIT Information request 3-9-15

Eric,

Per our conversation this morning:

5. RCA finalization: RCA team is targeting Friday, MARCH 20, as the completion (Final sign off) of the RCA.
6. CV Cores Disposition Update: See attached table for information concerning the CV Core holes.

The outstanding core locations were recently logically grouped and new N&Ds written to facilitate the retrieval of as-built information. The N&Ds will reference each other and will consider cumulative effects of these and other nonconformances.

As you'll see in the table, we're still in the process of gathering information at four locations (D3, D6 and D7). The information gathering process may lead to re-coring. The extent of those efforts has not yet been defined. As part of excavation D4 and D5 have been exposed for inspection. The cut #11 radial bar in R1 has been dispositioned as abandon in place.

I understand you have been able to review CB&I Services repair documentation.

Let me know if you need anything additional,

J. Findlay Salter, EIT
Associate Engineer
New Nuclear Deployment - Licensing
SCE&G | V.C. Summer Nuclear Station
P.O. Box 88 | MC 846
Jenkinsville, SC 29065-0088
803.941.9855 Office
james.salter@scana.com



Oelstrom, Chad

From: Oelstrom, Chad
Sent: Friday, March 20, 2015 8:42 AM
To: OBryan, Phil; Michel(R2), Eric
Subject: RE: SIT Information request 3-9-15

I messed up in my email yesterday about the dispositions. I got holes D6 and D7 reversed. Also, I forgot to include that structural rebar was encountered in D7. This made the disposition indeterminate with regards to use as is for holes D6 and D7. Sorry for the confusion.

Hole	Disposition Summary Unofficial
R1	Excavated during CVBH repair. Structural radial rebar cut. Dispositioned to remove 12" of radial rebar for CVBH repair. Abandon in-place.
R2	Excavated during CVBH repair. No structural rebar encountered.
R3	QC inspected and verified no rebar encountered.
D1	Based on provided design and asbuilt information, no structural rebar encountered.
D2	<i>Preliminary - assumed structural circumferential and radial rebar cut. Disposition use as is based on D3 recore indicating no rebar encountered.</i>
D3	<i>Preliminary - No rebar encountered during recore and boroscope. Repair recored hole.</i>
D4	Excavated during CVBH repair. No structural rebar encountered.
D5	Excavated during CVBH repair. No structural rebar encountered.
D6	<i>Preliminary - Recored. No rebar encountered. Waiting on disposition of N&D.</i>
D7	<i>Preliminary - Recored to determine rebar encountered. #8 bar observed cut. Indeterminate if cut bar construction aid or tail of hook bar. Also, determined structural rebar cut. Based on this indeterminate for use as is. Determined to recore D6.</i>

Chad Oelstrom
Construction Resident Inspector
VC Summer Units 2 and 3
USNRC Region II, CCI-DCP-CPB4
Phone: 803-345-6856
Email: <mailto:chad.oelstrom@nrc.gov>

From: Oelstrom, Chad
Sent: Thursday, March 19, 2015 10:48 AM
To: OBryan, Phil; Michel(R2), Eric
Subject: RE: SIT Information request 3-9-15

If you look at the attached table, I have reviewed all the dispositions except for VS2- CR01-GNR-000294, 295 and 297. To disposition these N&Ds they needed to recore D3, D6, and D7. N&D 297 deals with the repair of these holes. 294 was completed 3/18 but is awaiting final signatures. 295 and 297 are to be completed tomorrow.

Hole	Disposition Summary Unofficial
R1	Excavated during CVBH repair. Structural radial rebar cut. Dispositioned to remove 12" of radial rebar for CVBH repair. Abandon in-place.
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D1	Based on provided design and asbuilt information, no structural rebar encountered.
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D3	<i>Preliminary - No rebar encountered during recore and boroscope. Repair recored hole.</i>
D4	Excavated during CVBH repair. No structural rebar encountered.
D5	Excavated during CVBH repair. No structural rebar encountered.
D6	<i>Preliminary - Recored to determine rebar encountered. #8 bar observed cut. Indeterminate if cut bar construction aid or tail of hook bar. Determined to recore D7.</i>
D7	<i>Preliminary - Recored waiting on disposition of N&D.</i>

From: OBryan, Phil
Sent: Thursday, March 19, 2015 10:16 AM
To: Oelstrom, Chad; Michel(R2), Eric
Subject: RE: SIT Information request 3-9-15

Have you had a chance to look at the technical justifications for the use-as-is holes?

From: Oelstrom, Chad
Sent: Thursday, March 19, 2015 10:13 AM
To: Michel(R2), Eric
Cc: OBryan, Phil
Subject: RE: SIT Information request 3-9-15

FYI... Talked to Ed Wills | RCA final sign off is now scheduled for March 30th. Draft is complete. CBI Senior management to review this week. Then the CARB and MRB need to review and approve. Then final sign off. My understanding is SCE&G's review is to be concurrent with the CARB review. Ed said the team determined the root cause was inadequate procedures with several contributing causes. He told me the contributing causes generally aligned with our findings and observations. It was a brief conversation not much detail provided.

Rebar dispositions – waiting on final two holes (D6 and D7). Should be complete today and finalized by tomorrow. All other holes are use as is.

I asked Findlay to continue to provide an update on 3/23.

From: Michel(R2), Eric

Sent: Monday, March 16, 2015 12:34 PM

To: SALTER, JAMES FINDLAY

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYI F MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbl.com'; 'Baucom, Charles'; Delstrom, Chad; Heisserer, Jamie; Musser, Randy

Subject: RE: SIT Information request 3-9-15

Findlay,

Thanks for the update. Unless anything changes drastically in the interim, can we have another update next Monday (3/23)?

Eric

From: SALTER, JAMES FINDLAY [mailto:JAMES.SALTER@scana.com]

Sent: Monday, March 16, 2015 12:09 PM

To: Michel(R2), Eric

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbl.com'; 'Baucom, Charles'; Delstrom, Chad; Heisserer, Jamie

Subject: RE: SIT Information request 3-9-15

Eric,

1. RCA finalization: RCA team is targeting Friday, MARCH 25, as the completion (Final sign off) of the RCA.
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Final QC Investigations are occurring in re-cored holes D3, D7 today to address VS2-CR01-GNR-000294, VS2-CR01-GNR-000295 RAI's.

Let me know if you need anything additional,

J. Findlay Salter, EIT

Associate Engineer

New Nuclear Deployment - Licensing

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P.O. Box 88 | MC 846

Jenkinsville, SC 29065-0088

803.941.9855 Office

james.salter@scana.com



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Sent: Tuesday, March 10, 2015 9:32 AM

To: SALTER, JAMES FINDLAY

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; Oelstrom, Chad; Heisserer, Jamie

Subject: RE: SIT Information request 3-9-15

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Findlay,

Thanks, this is very helpful. Can we ask for an update on Monday 3/16 to see if anything has changed? It would also help to get rough dates when the actions for the N&Ds for the holes will be completed. Again, those dates would be for our planning purposes only. Thanks.

Eric

From: SALTER, JAMES FINDLAY [mailto:JAMES.SALTER@scana.com]

Sent: Monday, March 09, 2015 4:11 PM

To: SALTER, JAMES FINDLAY; Michel(R2), Eric; Oelstrom, Chad

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles

Subject: RE: SIT Information request 3-9-15

CORRECTION

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Subject: SIT Information request 3-9-15

Eric,

Per our conversation this morning:

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I understand you have been able to review CB&I Services repair documentation.

Let me know if you need anything additional,

J. Findlay Salter, EIT

Associate Engineer

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803.941.9855 Office

james.salter@scana.com



Oelstrom, Chad

From: Oelstrom, Chad
Sent: Thursday, March 19, 2015 10:51 AM
To: Michel(R2), Eric
Subject: RE: SIT Information request 3-9-15

I am hoping to make progress today.

From: Michel(R2), Eric
Sent: Thursday, March 19, 2015 10:48 AM
To: Oelstrom, Chad
Cc: OBryan, Phil
Subject: RE: SIT Information request 3-9-15

Thanks Chad. I'm assuming you're keeping tabs on the hole/rebar dispositions, including review/inspection to be documented in the inspection report.

Phil – I'd like you and I to both look at the root cause once it's available. Once we're at a point where we're ready to ask some questions I'll make some arrangements for a conference call with the SCE&G.

Once we've wrapped up inspection of the dispositions and root cause, I'll arrange for a final exit.

Where do you both stand on the write ups for the violations? Thanks.

Eric

From: Oelstrom, Chad
Sent: Thursday, March 19, 2015 10:13 AM
To: Michel(R2), Eric
Cc: OBryan, Phil
Subject: RE: SIT Information request 3-9-15

FYI... Talked to Ed Wills, RCA final sign off is now scheduled for March 30th. Draft is complete. CBI Senior management to review this week. Then the CARB and MRB need to review and approve. Then final sign off. My understanding is SCE&G's review is to be concurrent with the CARB review. Ed said the team determined the root cause was inadequate procedures with several contributing causes. He told me the contributing causes generally aligned with our findings and observations. It was a brief conversation not much detail provided.

Rebar dispositions – waiting on final two holes (D6 and D7). Should be complete today and finalized by tomorrow. All other holes are use as is.

I asked Findlay to continue to provide an update on 3/23.

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Sent: Monday, March 16, 2015 12:34 PM
To: SALTER, JAMES FINDLAY
Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbl.com'; 'Baucom, Charles'; Oelstrom, Chad; Heisserer, Jamie; Musser, Randy
Subject: RE: SIT Information request 3-9-15

Findlay,

Thanks for the update. Unless anything changes drastically in the interim, can we have another update next Monday (3/23)?

Eric

From: SALTER, JAMES FINDLAY [mailto:JAMES.SALTER@scana.com]

Sent: Monday, March 16, 2015 12:09 PM

To: Michel(R2), Eric

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Subject: RE: SIT Information request 3-9-15

Eric,

1. RCA finalization: RCA team is targeting Friday, MARCH 25, as the completion (Final sign off) of the RCA.
2. CV Cores Disposition Update: See attached table for information concerning the CV Core holes.

Final QC Investigations are occurring in re-cored holes D3, D7 today to address VS2-CR01-GNR-000294, VS2-CR01-GNR-000295 RAI's.

Let me know if you need anything additional,

J. Findlay Salter, EIT

Associate Engineer

New Nuclear Deployment - Licensing

SCE&G | V.C. Summer Nuclear Station

P.O. Box 88 | MC 846

Jenkinsville, SC 29065-0088

803.941.9855 Office

james.salter@scana.com



From: Michel(R2), Eric [mailto:Eric.MichelR2@nrc.gov]

Sent: Tuesday, March 10, 2015 9:32 AM

To: SALTER, JAMES FINDLAY

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'; Oelstrom, Chad; Heisserer, Jamie

Subject: RE: SIT Information request 3-9-15

***This is an EXTERNAL email. Please do not click on a link or open any attachments unless you are confident it is from a trusted source.

Findlay,

Thanks, this is very helpful. Can we ask for an update on Monday 3/16 to see if anything has changed? It would also help to get rough dates when the actions for the N&Ds for the holes will be completed. Again, those dates would be for our planning purposes only. Thanks.

Eric

From: SALTER, JAMES FINDLAY [<mailto:JAMES.SALTER@scana.com>]

Sent: Monday, March 09, 2015 4:11 PM

To: SALTER, JAMES FINDLAY; Michel(R2), Eric; Oelstrom, Chad

Cc: Donnelly, Patrick; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'

Subject: RE: SIT Information request 3-9-15

CORRECTION

From: SALTER, JAMES FINDLAY

Sent: Monday, March 09, 2015 3:48 PM

To: 'Michel(R2), Eric'; 'Oelstrom, Chad'

Cc: 'Donnelly, Patrick'; SANDERS, GARRETT R; 'Ewing, Jerrod A.'; 'Cole, Joseph A'; YOUNG, KYLE MATTHEW; CATLEDGE, JOHN THOMAS; 'McIntyre, Brian A'; RICE, APRIL R; 'edward.wills@cbi.com'; 'Baucom, Charles'

Subject: SIT Information request 3-9-15

Eric,

Per our conversation this morning:

3. RCA finalization: RCA team is targeting Friday, MARCH 20, as the completion (Final sign off) of the RCA.
4. CV Cores Disposition Update: See attached table for information concerning the CV Core holes.

The outstanding core locations were recently logically grouped and new N&Ds written to facilitate the retrieval of as-built information. The N&Ds will reference each other and will consider cumulative effects of these and other nonconformances.

As you'll see in the table, we're still in the process of gathering information at four locations (D3, D6 and D7). The information gathering process may lead to re-coring. The extent of those efforts has not yet been defined. As part of excavation D4 and D5 have been exposed for inspection. The cut #11 radial bar in R1 has been dispositioned as abandon in place.

I understand you have been able to review CB&I Services repair documentation.

Let me know if you need anything additional,

J. Findlay Salter, EIT

Associate Engineer

New Nuclear Deployment - Licensing

SCE&G | V.C. Summer Nuclear Station

P.O. Box 88 | MC 846

Jenkinsville, SC 29065-0088

803.941.9855 Office

james.salter@scana.com



Oelstrom, Chad

From: BUSH, PAMELA <PAMELA.BUSH@scana.com>
Sent: Monday, March 16, 2015 2:35 PM
To: Oelstrom, Chad
Attachments: VSG-CC01-GEF-000210.pdf

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of the Freedom of Information and Privacy Act

Oelstrom, Chad

From: DONNELLY, PATRICK B <PATRICK.DONNELLY@scana.com>
Sent: Monday, March 16, 2015 9:33 AM
To: Oelstrom, Chad
Subject: D1 N&D
Attachments: VS2-CR01-GNR-000293.pdf

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of the Freedom of Information and Privacy Act

Oelstrom, Chad

From: DONNELLY, PATRICK B <PATRICK.DONNELLY@scana.com>
Sent: Monday, March 16, 2015 9:32 AM
To: Oelstrom, Chad
Subject: Cut Rebar N&D
Attachments: VS2-CR01-GNR-000279_2.pdf

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