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**Sent:** Wednesday, September 16, 2020 4:23 PM  
**To:** Vogtle PEmails  
**Cc:** Welch, Christopher; Gaslevic, James; Santos, Cayetano  
**Subject:** Presentation Material for 9/17/20 Public Meeting with SNC  
**Attachments:** ITAAC 138 Presentation for September 17 2020.pdf

**From:** Leighty, Steven <sleighty@southernco.COM>  
**Sent:** Wednesday, September 16, 2020 4:12 PM  
**To:** Schiller, Alina <Alina.Schiller@nrc.gov>  
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**Subject:** [External\_Sender] Presentation Material for Public Meeting Tomorrow

Alina,

Please find attached presentation material in support of the 2<sup>nd</sup> topic on the agenda for tomorrow's public meeting. Please let me know if you have any questions.

Thanks,

**Steve Leighty | Southern Nuclear**

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**From:** Schiller, Alina

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**Passive Containment Cooling (PCS) test for ITAAC 138**

**September 17, 2020**



# Review of ITAAC 138 Requirements

| Table 2.2.2-3<br>Inspections, Tests, Analyses, and Acceptance Criteria |              |  |   |  |
|--|--------------|--|---|--|
| No.  | ITAAC No.    | Design Commitment  | Inspection, Test, Analyses  | Acceptance Criteria  |
| 138  | 2.2.02.07b.i | 7.a) The PCS delivers water from the PCCWST to the outside, top of the containment vessel. | i) Testing will be performed to measure the PCCWST delivery rate from each one of the three parallel flow paths.            | i) When tested, each one of the three flow paths delivers water at greater than or equal to: <ul style="list-style-type: none"> <li>– 469.1 gpm at a PCCWST water level of 27.4 ft + 0.2, - 0.0 ft above the tank floor</li> <li>– 226.6 gpm when the PCCWST water level uncovers the first (i.e. tallest) standpipe</li> <li>– 176.3 gpm when the PCCWST water level uncovers the second tallest standpipe</li> <li>– 144.2 gpm when the PCCWST water level uncovers the third tallest standpipe</li> </ul> – or a report exists and concludes that the as-measured flow rates delivered by the PCCWST to the containment vessel provides sufficient heat removal capability such that the limiting containment pressure and temperature values are not affected and the PCS is able to perform its safety function to remove heat from containment to maintain plant safety. |
|  |              |  | ii) Testing and or analysis will be performed to demonstrate the PCCWST inventory provides 72 hours of adequate water flow. | ii) When tested and/or analyzed with all flow paths delivering and an initial water level at 27.4 + 0.2, - 0.00 ft, the PCCWST water inventory provides greater than or equal to 72 hours of flow, and the flow rate at 72 hours is greater than or equal to 100.7 gpm<br><br>or a report exists and concludes that the as-measured flow rates delivered by the PCCWST to the containment vessel provides sufficient heat removal capability such that the limiting containment pressure and temperature values are not affected and the PCS is able to perform its safety function to remove heat from containment to maintain plant safety   |

*Purple: Added by LAR-17-043*



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# Acceptance Criteria i)

- Perform test as described in the UIN (reference ML 19266A596)
  - An additional step will be added to measure the water coverage on the top of the containment vessel.
  - Method to measure coverage to be determined.
- If AC flowrates are met, no further action is required
- If AC flowrates are not met, AC will be met by an updated calculation of containment pressure and temperature using the measured flowrates and vessel coverage.

Calculation will demonstrate that measured flow rate and coverage provides sufficient heat removal capability such that the limiting containment pressure and temperature values are not affected



## Acceptance Criteria ii)

- Perform test as described in the UIN (reference ML 19266A596)
- If 72 hour AC flowrate is met, no further action is required
- If 72 hours AC flowrate is not met, AC will be met by a calculation of containment pressure and temperature using the measured flowrate.

Calculation will demonstrate that the measured flow rate provides sufficient heat removal capability such that the limiting containment pressure and temperature values are not affected



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# ITAAC 138 UIN

“These values confirm that the ITAAC acceptance criteria are satisfied or if any flow values do not meet the ITAAC acceptance criteria values, an analysis is performed and a report exists and concludes that the as-measured flow rates delivered by the PCCWST to the containment vessel provides sufficient heat removal capability such that the limiting containment pressure and temperature values are not affected and the PCS is able to perform its safety function to remove heat from containment to maintain plant safety.”



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