

SummerRAIsPEm Resource

From: Gleaves, Bill
Sent: Wednesday, July 20, 2016 9:15 AM
To: SummerRAIsPEm Resource
Subject: FW: Draft RAIs on V.C. Summer LAR 15-15 (WEC22) "RCA Ventilation Changes (VAS)"
Attachments: Summer LAR 15-15 (airborne monitor loc.) RAIs (7-14-16).doc

Billy

William (Billy) Gleaves
Lead Project Manager for
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From: Hinson, Charles
Sent: Monday, July 18, 2016 3:56 PM
To: Gleaves, Bill
Cc: Burkhart, Lawrence; Chien, Nan
Subject: RE: Draft RAIs on V.C. Summer LAR 15-15 (WEC22) "RCA Ventilation Changes (VAS)"

Billy
As we discussed over the phone, I have slightly modified my draft RAIs for LAR 15-15 (see attachment). In subpart 1.b. (end of second paragraph) I added another reason justifying why radiation monitor VAS-JE-RE008 should be installed upstream of the juncture for the filtered exhaust flowpath. I also added subpart 1.d, which states that portions of UFSAR 9.4.3.1.1 should be modified to agree with changes made by this LAR. Please call me if you have any questions on these changes.
Charlie

From: Gleaves, Bill
Sent: Friday, July 15, 2016 12:50 PM
To: Nick Kellenberger (nicholas.r.kellenberger@scana.com) <nicholas.r.kellenberger@scana.com>
Cc: Hinson, Charles <Charles.Hinson@nrc.gov>; Burkhart, Lawrence <Lawrence.Burkhart@nrc.gov>; Chien, Nan <Nan.Chien@nrc.gov>; Barr, Jonathan <Jonathan.Barr@nrc.gov>; Clement, Richard <Richard.Clement@nrc.gov>; Patel, Chandu <Chandu.Patel@nrc.gov>; Dixon-Herrity, Jennifer <Jennifer.Dixon-Herrity@nrc.gov>
Subject: Draft RAIs on V.C. Summer LAR 15-15 (WEC22) "RCA Ventilation Changes (VAS)"

See attached for draft RAIs. We have already discussed the staff need for these clarifications at the public meeting held on 7.14.16. These draft RAIs are available in public ADAMS at ML16197A271.

Once you have read and discussed these, please let me know when you plan to formally respond or if they need discussion at a future public meeting.

Respectfully,

Billy

William (Billy) Gleaves

Lead Project Manager for

V.C. Summer Units 2 and 3

Licensing Branch 4

US NRC, Office of New Reactors

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Clarification needed on LAR 15-15 regarding Figure 9.4.3-1 (sheet 2 of 3)

1. LAR 15-15 contains proposed revisions to UFSAR Figure 9.4.3-1 (Sheet 2 of 3), which include the addition of airborne radiation detector VAS-RE-008 to monitor the exhaust flow from the annex building.
 - a. This figure shows dashed lines coming from the exhaust ducting coming from both the annex building (monitored by radiation detector VAS-JE-RE008) and from the portion of the auxiliary building indicated on the lower portion of the figure (monitored by radiation detector VAS-JE-RE002). These dashed lines indicate that a filtered exhaust flowpath is used when radiation in the exhaust ducts is detected. If radiation detector VAS-JE-RE003, which monitors the air coming from the portion of the auxiliary building indicated on the upper portion of Figure 9.4.3-1, is also able to isolate this zone and direct the airflow from this portion of the auxiliary building to the filtered flowpath, then this capability should be clarified on UFSAR Figure 9.4.3-1 (Sheet 2 of 3).
 - b. UFSAR Figure 9.4.3-1 (Sheet 2 of 3) shows that the filtered exhaust flowpath line for the annex building and portion of the auxiliary building ties into the exhaust ducting from the annex building upstream of radiation detector VAS-JE-RE008. If high airborne radioactivity from the annex building is detected in the exhaust duct from this zone by radiation detector VAS-JE-RE008, this detector will close the supply and exhaust duct isolation dampers for the annex and auxiliary (upper portion shown on this figure) buildings and reroute this air through the filtered exhaust flowpath shown. In this situation, the exhaust air coming from the portion of the auxiliary building monitored by radiation detector VAS-JE-RE003 will flow past radiation detector VAS-JE-RE003, as well as past radiation detector VAS-JE-RE008, before being routed through the filtered exhaust flowpath line to the containment air filtration exhaust units. If the exhaust air coming from the auxiliary building does not contain high airborne radioactivity, the passage of this uncontaminated air past radiation detector VAS-JE-RE008 could result in the radiation readings from this detector decreasing. Since the readings from radiation detector VAS-JE-RE008 are monitored by operators in the control room, this decrease in the radiation levels measured by this detector could result in some uncertainty regarding the actual radiation levels of the air being exhausted from the annex building.

UFSAR Figure 9.4.3-1 (sheet 2 of 3) shows that the filtered exhaust flowpath line to the containment air filtration exhaust units for the exhaust air from the portion of the auxiliary building being monitored by radiation detector VAS-JE-RE002 is located downstream of this detector. If the filtered exhaust flowpath line that ties into the exhaust duct from the annex building were to be relocated so that it is downstream of radiation detector VAS-JE-RE008, then this modification would resolve the issue described in the previous paragraph regarding potential misleading readings from radiation detector VAS-JE-RE008 under certain conditions. Locating radiation detector VAS-JE-RE008 upstream of the filtered exhaust flowpath instead of downstream of the filtered flowpath would also ensure that you would have an accurate indication of the activity of the air from the annex building that is being directed through the filtered exhaust flowpath.

On the basis of the reasons discussed above, justify your reasons for not relocating this filtered exhaust flowpath so that it is located downstream of radiation detector VAS-JE-RE008.

- c. The proposed revision to UFSAR Subsection 11.5.2.3.2 states that when a predetermined setpoint is exceeded, indicating abnormal airborne radiation, the auxiliary and annex building exhaust radiation monitors provide signals to alarm in the main control room, to initiate closure of the affected radiologically controlled area ventilation system zone supply and exhaust air isolation dampers, to open the radiologically controlled area ventilation system zone exhaust air isolation damper to the containment air filtration units, and to start a containment air filtration exhaust unit. Please clarify if the isolation of these areas upon high airborne radioactivity is an automatic function or is performed manually. In addition, provide the criteria for resuming normal ventilation flow to these areas.
- d. Portions of UFSAR Subsection 9.4.3.2.1.1, Auxiliary/Annex Building Ventilation Subsystem, should be modified to reflect the changes proposed in this LAR. For example, the last sentence in the first paragraph states that a radiation monitor is located in the exhaust air duct from each zone. The proposed LAR would add a second monitor (VAS-JE-RE008) in the exhaust air duct from the auxiliary/annex building ventilation zone.