

SummerRAIsPEm Resource

From: Gleaves, Bill
Sent: Friday, July 15, 2016 12:21 PM
To: SummerRAIsPEm Resource
Subject: FW: Vogtle LAR 15-011 on RCA Ventilation Changes (VAS)
Attachments: Summer LAR 15-15 (airborne monitor loc.) RAIs (7-14-16).doc

For addition to public ADAMS.

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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From: Burkhart, Lawrence
Sent: Friday, July 15, 2016 10:46 AM
To: Gleaves, Bill
Cc: Hinson, Charles
Subject: FW: Vogtle LAR 15-011 on RCA Ventilation Changes (VAS)

Billy,

I concur on sending these questions to SCE&G to support discussions in a public meeting about the subject LAR.

Larry

From: Hinson, Charles
Sent: Thursday, July 14, 2016 5:28 PM
To: Burkhart, Lawrence <Lawrence.Burkhart@nrc.gov>
Subject: FW: Vogtle LAR 15-011 on RCA Ventilation Changes (VAS)

Larry

Here is the link to the LAR on ventilation changes that we spoke about and I have also attached my revised questions (not formal RAIs!) for you to review. Please call me at home if you have any questions on this material. Thanks and have a good weekend.

Charlie
703-898-0212

From: Gleaves, Bill
Sent: Thursday, July 07, 2016 1:32 PM
To: Burkhart, Lawrence <Lawrence.Burkhart@nrc.gov>

Cc: Hinson, Charles <Charles.Hinson@nrc.gov>; Patel, Chandu <Chandu.Patel@nrc.gov>

Subject: Vogtle LAR 15-011 on RCA Ventilation Changes (VAS)

These are the references to the incoming, and the acceptance letter.

[View ADAMS P8 Properties ML15328A515](#)

[Open ADAMS P8 Document \(Vogtle, Units 3 and 4 - Request for License Amendment and Exemption: Radiologically Controlled Area Ventilation System \(VAS\) Design Changes \(LAR-15-011\).\)](#)

[View ADAMS P8 Properties ML16077A355](#)

[Open ADAMS P8 Document \(Acceptance Letter for Vogtle, Units 3 and 4 LAR 15-011.\)](#)

Billy

William (Billy) Gleaves

Lead Project Manager for

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Licensing Branch 4

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Hearing Identifier: Summer_COL_eRAIs
Email Number: 158

Mail Envelope Properties (f76cd91a5bd342f4993e2812ccbe1b12)

Subject: FW: Vogtle LAR 15-011 on RCA Ventilation Changes (VAS)
Sent Date: 7/15/2016 12:21:17 PM
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From: Gleaves, Bill

Created By: Bill.Gleaves@nrc.gov

Recipients:
"SummerRAIsPEm Resource" <SummerRAIsPEm.Resource@nrc.gov>
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Files	Size	Date & Time
MESSAGE	3431	7/15/2016 12:21:18 PM
Summer LAR 15-15 (airborne monitor loc.) RAIs (7-14-16).doc		35710

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
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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.

The staff notes that UFSAR Figure 9.4.3-1 (sheet 2 of 3) shows 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. On the basis of the reason 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. It is unclear if the isolation of these areas upon high airborne radioactivity is an automatic function or is performed manually. Please provide clarification on this. In addition, provide the criteria for resuming normal ventilation flow to these areas.