

From: Mark Whittaker [MSWHITTAKER@energysolutions.com]
Sent: Monday, March 29, 2010 4:23 PM
To: Saverot, Pierre
Cc: Mirza Baig
Subject: RE: Thermal and Containment clarifications - 3-60B - March 31 @ 1:30 p.m.
Attachments: Microsoft Word - Staff needs further clarification for the following questions.pdf; parker stat-o-seal.pdf

Pierre,

Attached are our draft responses to staff questions you provided on March 15th and 23rd. Please provide to staff for review in preparation for our call on Wednesday afternoon (1:30pm). Please call Mirza's office for this call also.
Thanks

Mark Whittaker, CHP
EnergySolutions
(803) 758-1898
(803) 252-9770 fax
mwhittaker@energysolutions.com

From: Saverot, Pierre [mailto:Pierre.Saverot@nrc.gov]
Sent: Wednesday, March 24, 2010 9:29 AM
To: Mark Whittaker
Cc: Mirza Baig
Subject: Thermal and Containment clarifications - 3-60B - March 31 @ 1:30 p.m.

Mark,

In order to minimize the duration of the call and achieve a common and proper understanding of every issue, please e-mail me before the call your proposed responses (even incomplete) to the 6 questions raised on March 15 and 23.

March 31 at 1:30 p.m. for thermal and containment.

Pierre

From: Mark Whittaker [mailto:MSWHITTAKER@energysolutions.com]
Sent: Wednesday, March 24, 2010 8:32 AM
To: Saverot, Pierre
Cc: Mirza Baig
Subject: RE: RAI to be discussed next week - 3-60B

Pierre,

We will be available on the 31st for discussion on the thermal and containment questions; let me know the time. Please send the structural questions as soon as you can. Can we set the date for the call after you send the questions? Mirza may want a few days to prepare.

Thanks

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From: Saverot, Pierre [mailto:Pierre.Saverot@nrc.gov]
Sent: Tuesday, March 23, 2010 5:51 PM
To: Mark Whittaker
Subject: RAI to be discussed next week - 3-60B

Mark,

This is a new one we want to discuss next week, as indicated in my previous e-mail, along with the clarification request sent on March 15 for 5 RAIs.

Please confirm your availability for March 31. We want also to have a second conference call on structural topics with Mirza Baig. I will send you the topics for discussion. When can this take place?

Pierre

RAI #3 – 3: Provide the equations and the related parameters/values used to derive the maximum pressure of NCT within the 3-60B containment vessel.

The calculated pressure of 25.6 psig for NCT in SAR 3.4.3 does not include the radiolysis-induced pressure in a complete manner and its effect on the other pressure components. Specifically, the applicant did not calculate the pressure, generated by radiolysis, as a function of the effective G value, the decay heat, and the 60-day shipping period.

The maximum pressure within the 3-60B under NCT is attributed by the radiolytic gas generation, the thermal expansion of gases, and the vapor pressure of water within the package. Therefore, the applicant should perform a NCT pressure calculation based on three factors:

- Pressure generated by radiolysis (based on the decay heat, the effective G value and a 60-day shipping period),
- Pressure increase of the initial gas due to thermal expansion, and
- Vapor pressure of water.

The applicant should provide the equations, the related parameters/values, and calculations for the total pressure calculations. In addition, the applicant should show the calculation for the water vapor pressure using the formula in Ref. 3-4 of the SAR.

This information is required to show compliance with 10 CFR 71.35, 71.43(d), and 71.71.

E-mail Properties

Mail Envelope Properties (8E6A1CD683D978448E248BB291090D2C033B78B6)

Subject: RE: Thermal and Containment clarifications - 3-60B - March 31 @ 1:30 p.m.
Sent Date: 3/29/2010 4:22:56 PM
Received Date: 3/29/2010 4:22:56 PM
From: Mark Whittaker

Created By: MSWHITTAKER@energysolutions.com

Recipients:

Pierre.Saverot@nrc.gov (Saverot, Pierre)
Tracking Status: None
MIBAIG@energysolutions.com (Mirza Baig)
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Files	Size	Date & Time	
MESSAGE	796032	3/29/2010	
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parker stat-o-seal.pdf	722241		

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