FOIAPANSIR Resource

From: M.T. Leonard [mtl@dycoda.com]
Sent: Tuesday, September 02, 2008 10:25 AM
To: Sullivan, Randy
Cc: 'Jones, Joe A'; Brock, Terry; Schaperow, Jason
Subject: RE: SOARCA, what else
Attachments: PB_fill_volume2.pdf

Randy,

The fill-volume plot that I sent you earlier simply indicates the drywell floor elevation as a reference point. The internal volume curves are correct above and below that reference elevation. So, if you want to know the volume required to fill the drywell and/or reactor building up to some point above the drywell floor, the volumes indicated above the drywell floor reference point can be used reliably.

The building elevations in the diagrams I sent you are actual plant reference elevations in feet. The plant uses sea level as reference zero. However, when I generated the fill volume curves, I used the MELCOR model data which (for convenience) uses the nadir of the RPV as the reference point. Thus the confusion (my apologies). I've attached an alternate diagram that realigns the y-axis to actual plant reference elevations.

Regarding your more recent question about CS pump power, I have no idea, but I'll dig through some files to see if it is mentioned.

Mark

From: Randy Sullivan [mailto:Randy.Sullivan@nrc.gov]
Sent: Tuesday, September 02, 2008 7:24 AM
To: M.T. Leonard
Cc: Jones, Joe A; Terry Brock; Jason Schaperow
Subject: SOARCA, what else

Hi

A while back you helped me with a P Bottom analysis. I guess the project staff likes the idea I put forward, so I need to refine the analysis. You provided a building elevation vs. gallons plot with a dotted line for the fill level we would need. I understand from the plot that the fill line is for the DW floor. We need one meter above the floor, I guess, to cover the molten core sufficiently to mitigate the release. If my understanding is correct, could you please redo the plot to show 1 meter above floor (or should it be a bit more than that since the core would have some height?).

Also the building elevations indicated are not consistent with those on the DW cross section diagram, or perhaps I do not know what I am looking at. Is it that building elevation is different than elevation? I think for ease of reading, they should be the same?

Please let me know if I have misunderstood some issue.

Sometime this week if possible.

Thanks

301 415 1123

Randolph Sullivan, CHP

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