Mitman, Jeffrey

From: Wilson, George NRC
Sent: Friday, January 08, 2010 3:47 AM
To: Mitman, Jeffrey
Subject: Re: Questions on OFI

We are asking specifically for the hydro procedures associated with item 3

Sent from nrc blackberry
George wilson
(b)(6)

From: Mitman, Jeffrey NRC
To: Wilson, George
Cc: Khanna, Meena; James, Lois
Sent: Thu Jan 07 18:00:04 2010
Subject: Questions on OFI

George, in our discussion today we talked about additional questions that may be appropriate to ask Duke if they have not already been asked. Below are some to consider. I may have more after thinking more about the existing list.

Thanks.

Jeff

- In addition to the final flood height at the SSF and around the ONS another parameter of interest coming out of the final 2D analysis is the water velocity. The mitigation strategies (or what you have called interim compensatory measures - I assume they are the same) will depend on what equipment remains usable once the flood waters recede. The velocity of the flood water and what the flood waters strike could significantly erode and/or damage systems, structures and components (SSC) that may be useful in event mitigation. When we go to evaluate the mitigation strategies and the credit given in risk space for those strategies we will need to know what forces the SSC experienced. I bring this up now because this is an output of the 2D hydrology work and it would be good to put Duke on notice while they are performing the hydrology analysis that we will be needing this information.
- Likewise, as we have discussed, the 2D analysis results that I've seen to date indicates that at the end of the analysis about a foot of water remains on the site at the SSF. I recognize that the graphs Duke presented to us is only of limited duration. However, if and/or when the water level recedes to below ground elevation after the flood waters pass, will significantly impact/complicate recovery. For example, if water continues to flow across the site after flood water recede, it appears that pumping the basement floor elevation of the turbine building and possibly the aux. buildings may be impossible. Likewise, as we discussed, a constant flow across the site will impede access to SSC that may be relied upon for mitigation.
- In your question 10 you indicate that we are requesting copies of the procedure which Duke would use for decision making in the event of an impending storm and possible PMF. It is unclear to me whether we are requesting ONS procedures that would govern decision making at the nuclear site or whether we are requesting procedures that govern the operation of the Jocassee Dam. In my opinion it would be good to have both. Likewise, as it appears that operation of the entire watershed prior to a dam failure or PMF could affect the water levels at Oconee, I believe it would be prudent to have any procedures that Duke "hydro" might use during these conditions. For example procedures that might direct personnel to drop the Keowee Reservoir level, etc.

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