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Sent: Monday, November 30, 2015 10:43 PM
To: CHAIRMAN Resource <CHAIRMAN.Resource@nrc.gov>
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Subject: [External_Sender] IAEA Technical Volume 5/5 Comments for November 30, 2015

Good morning,

Problems with Figures (Diagrams)

Figure 5.3-5 on page 78 is incorrect where it shows concrete stop logs between the top of the primary containment vessel and (the left side of) the spent fuel pool. That would make them removable and lead to possible loss of water needed over the stored spent fuel to reduce radiation to workers on the operating floor or even bolting on the reactor head.

Figure 5.3-13 on page 87 “shows the estimated locations of fuel debris for Units 1, 2 and 3”. Unfortunately, it presents, in all three cases, inaccurate levels of water. I cannot argue that (previously?) melted fuel and metal are inaccurately placed. However, having been on that drywell floor many times as one of a number of Drywell Coordinators during our lengthy, (one year plus), external recirculation pipe replacement outage, I can tell you that the lowest part of those vent tubes leaving the drywell and entering the suppression chamber is only about 2 inches above the drywell floor level. So as soon as the water gets above 2”, it will flow down into the suppression pool. Now, if the suppression chamber leaks, and we have been told that all three do, then water will flow out of the suppression chamber and into the room around it. So, in all three of these cases, the only way the water under the reactor vessel on (and above) the drywell floor is the height shown is if the water level OUTSIDE the suppression chamber is the same height.

Actually, we know that probably cannot be, since all the foundation walls leak and a strategy has been chosen to keep the water level inside the foundations lower than the groundwater outside the foundations so that corium-contaminated cooling water does not leak outside the foundations.

A casual viewer of this figure would have a lot more comfort that things are well than is deserved.

Thank you,

Tom Gurdziel