Mitman, Jeffrey

From: Ferrante, Fernando /NRC
Sent: Monday, November 29, 2010 11:48 AM
To: Mitman, Jeffrey
Subject: ONS MATLAB stuff

Jeff,

I forgot to mention that I also implemented the different possibilities in analyzing the JD storage routing routine in MATLAB (i.e., n-out-of-4 turbines fail, n-out-of-2 spillways fail). I didn't implement the early/late turbine failure because I found an easier way to do it which involves starting the analyses later during the PMP event and setting starting level at 1106 ft, and failing the turbine capacity after a certain height (this requires disregarding after-peak PMP flow results, which are not a concern anyway). I found all results were similar to what we had been discussing as far as I can remember. Also, the reason the inflow/outflow lines match so well is due to increase refinement in the interpolation input data and the time discretization in the analysis. I didn't change the spillway discharge increase from the 30 ft to 38 ft yet, but that should be easy to do once I'm back in the office, as we have all the equations. I think all the analyses is mature enough to document it and take it forward. What do you think?

Thanks,
Fernando

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