

August 17, 1999

CT thoughts on SFP

Could do some level 2 analysis, but we will have to understand more about spent fuel pools and the level 1 analysis first.

Two areas for potential improvements to analysis:

1. How much of the spent fuel pool is engaged in the fire?

Could look at this with MELCOR or SCDAP/RELAP5.

But first need to know:

What is the background/basis for the BNL release fractions?

How is the spent fuel pool loaded (e.g., checkerboard)?

2. Is the building intact to mitigate fission product releases?

Could look at this with MELCOR.

But first need to know:

Does an earthquake cause the building to fall down? (For BWR? For PWR?)

Does the fire burn off the roof of the building? How soon? (For BWR? For PWR?)

It would be worth a week of my time to answer the above questions, in particular the one regarding the background/basis for the BNL release fractions.

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