

From: Diane Jackson, *NRR*
To: Edward Throm, *NRR*
Date: Mon, Apr 12, 1999 7:54 AM
Subject: -1353/ -0612 question

Ed -

In thinking more about your comments regarding cask drop. Brian Thomas and I went back over the reports and could not put the reports in line; perhaps you can help.

BNL (-4982) states that the -0612 range is $2E-5$ to $2E-9/ry$ (p27) and "with the previous estimate of pool failure per cask drop (0.001) the pool failure rate is $2E-8$ to $2E-12/ry$ due to load drop." I did not find "the previous estimate" discussion. On p 27, Para 1, it talks about a 10% conditional probability for "structural damage given a cask drop in the vicinity of the pool edge." But this is only 0.1, not 0.001. It looks like BNL should have only multiplied by 0.1 not 0.001?

In -1353 p4-14, it references BNL's probability of $3.1E-4/ry$ without A-36, and uses a factor of 0.001 for the resolution of A-36 and 0.1 conditional probability of failure given a shipping cask drop. I could not find the referenced BNL number ($3.1E-4/ry$ without A-36) in the BNL report (-4982) - Do you know where this number is from?

It appears that BNL and -1353 do not say that the 0.001 factor is the same thing. What do you think about this? -0612 did not provide a probability estimate without its recommendations.

Diane

CC: Brian Thomas, Glenn Kelly, Vonna Ordaz

B/12-7