## Schaperow, Jason

From:

Schaperow, Jason

Sent:

Thursday, January 06, 2011 8:19 AM

To: Subject:

'Bixler, Nathan E' RE: New Tables

Thanks.

From: Bixler, Nathan E [mailto:nbixler@sandia.gov]
Sent: Wednesday, January 05, 2011 6:50 PM

**To:** Schaperow, Jason; Tinkler, Charles

**Cc:** McClellan, Yvonne **Subject:** New Tables

Jason and Charlie,

Here are the new tables that I intend to add to the bottom of the new section in Appendix A.

## Nate

Table 36 Conditional, i.e., Assuming the Accident Occurs, Mean, Latent-Cancer Fatality Probabilities (dimensionless) Using a Background (620 mrem) Dose Truncation Level for Residents within the Specified Radii of the Peach Bottom Site. Probabilities Are for the Recreation of the Sandia Siting Study Using the SST1 Source Term at Peach Bottom and for the Unmitigated STSBO Calculated for SOARCA. Core Damage Frequencies Were Estimated to Be 10<sup>-5</sup>/yr and 3-10<sup>-7</sup>/yr for the SST1 and STSBO Source Terms, Respectively.

Radius of Circular Area (mi)	SST1	PB STSBO	Ratio SST1 to STSBO
10	6.2E-04	3.3E-06	187
20	8.1E-04	8.4E-05	10
30	4.2E-04	5.2E-05	8
40	2.8E-04	2.9E-05	10
50	2.3E-04	2.1E-05	11

Table 37 Conditional, i.e., Assuming the Accident Occurs, Mean, Latent-Cancer Fatality Probabilities (dimensionless) for Three Levels of Dose Truncation for Residents within the Specified Radii of the Peach Bottom Site. Probabilities Are for the Recreation of the Sandia Siting Study Using the SST1 Source Term at Peach Bottom. Core Damage Frequency for This Sequence in the Siting Study is 10 s/yr.

Radius of - Circular Area (mi)	LNT	620 mrem/yr	5 rem/yr 10 rem Lifetime
10	7.4E-03	6.2E-04	7.2E-04
20	2.1E-03	8.1E-04	9.3E-04
30	9.1E-04	4.2E-04	5.0E-04
40	5.3E-04	2.8E-04	3.5E-04
50	4.2E <b>-</b> 04	2.3E-04	3.0E-04

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