

From: Jason Schaperow *RES*
To: Robert Palla
Date: Thu, Aug 3, 2000 4:41 PM
Subject: Comments on Appendix 4B

Per our discussion, I did one calculation reducing the power level to 2440 MWt. The consequences are a factor of 1.2 and 1.3 lower for societal dose and cancer fatalities, respectively. The power level is a factor of 1.4 lower. I have added this one calculation to the results you requested for 50 miles.

CC: Charles Tinkler, George Hubbard, John Flack, Ti...

I-80

August 3, 2000

**Results of Release Fraction Sensitivities
(95% evacuation, Surry Population Density)**

Case	Release Fraction							Mean Consequences within 50 miles	
	I,Cs	Ru	Te	Ba	Sr	Ce	La	Societal Dose (person-rem)	Cancer Fatalities
Base		2x10 ⁻⁵						3.16x10 ⁶	1,700
45a	1	1	.02	.01	.01	.01	.01	1.14x10 ⁷	10,600
45b	.75	.75	.02	.01	.01	.01	.01	1.00x10 ⁷	9,320
13 ^a		2x10 ⁻⁵						2.81x10 ⁶	1,370
46a ^a	1	1	.02	.01	.01	.01	.01	7.04x10 ⁶	6,970
46b ^a	.75	.75	.02	.01	.01	.01	.01	6.29x10 ⁶	5,860
56b ^{a,b}	.75	.75	.02	.01	.01	.01	.01	5.10x10 ⁶	4,420

^aBased on evacuation before release.

^bBased on Surry power level of 2440 Mwt (others were based on Susquehanna power level of 3441 MWt).