From:

Jason Schaperow, R45 Robert Palla, NRR

To:

Date: Subject: Thu, Aug 3, 2000 4:41 PM 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...



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

| Case | Release Fraction | | | | | | | Mean Consequences within 50 miles | |
|--------------------|------------------|--------------------|-----|-----|-----|-----|-----|-----------------------------------|----------------------|
| | I,Cs | Ru | Те | Ba | Sr | Се | 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 |
| 13ª | | 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).