

RE TVA Data Call.txt

From: Carey, Christopher [REDACTED]
Sent: Monday, August 30, 2010 12:50 PM
To: schlegel [REDACTED]
Subject: RE: TVA Data Call

Bob,

Both plants use 90 mrem/year for natural background radiation. The dose from radon is going to be highly dependent on the location, design and occupancy of the dwellings in the 50 mile zone so it is not included in the ARERR evaluation or in any of the EIS previously developed by TVA.

To be consistent with the EIS previously developed by TVA (e.g., SQN License renewal); please do not mention or include radon in the MOX EIS for BFN & SQN.

I can provide any additional information you need from the ARERR; please let me know specifically what information you are looking for.

Chris Carey

[REDACTED]

From: Eichner, John M. [REDACTED]
Sent: Friday, August 27, 2010 1:45 PM
To: Carey, Christopher
Cc: Owens, Kirk W.; Dimarzio, John A.; SCHLEGEL, ROBERT L.
Subject: FW: TVA Data Call

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Please see the questions in the message below. Thanks.

-----Original Message-----

From: Schlegel, Robert L.

Sent: Fri 8/27/2010 12:00 PM

To: Eichner, John M.

Cc: Owens, Kirk W.; schlegelr [REDACTED]

Subject: TVA Data Call

John:

On page 3 of the TVA data call responses, it is stated that the annual natural background radiation dose to the population within 50 miles of Browns Ferry is 70,044 person-rem and within 50 miles of Sequoyah is 95,400 person-rem. Since the populations within 50 miles of each site is on the order of 1,000,000 people, I would have expected background dose of about 300,000 person rem if radon is included. It appears that radon is not included in the numbers provided by TVA. If I assume that only cosmic and terrestrial radiation contribute to the natural background (approximately 83 millrem to an average individual in the United States [NCRP Report No. 160]) and use a 2010 50-mile population of 850,000 around Browns Ferry and 1,090,000 around Sequoyah (NUREG-1437, Volume 2), I would get 70,550 person-rem and 90,470 person-rem, respectively. These values are reasonably close to what TVA reports in the data call response.

The problem is that I include radon in the SRS human health section and need to know what I should do with the TVA reactor sections. I could report values with and without radon (using a footnote). Before I do this, however, I need confirmation that TVA does not include radon in the natural background radiation numbers and why not. How can this be confirmed?

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Also, the TVA data call references a number of ARERR reports (annual radiological effluent release reports). Is there any way we can get to them on the internet? I am having trouble trying to do so.

Thanks for your assistance.

Bob Schlegel (8-27-10)

Robert L. Schlegel| SAIC

Senior Nuclear Engineer| Engineering Support

[REDACTED]

[REDACTED]

Please consider the environment before printing this email.