

From: Nirodh Shah <sup>W3</sup>  
 To: Skokowski, Richard; Steven Orth  
 Date: 1/30/06 10:03AM  
 Subject: Tritium issue: conversation w/member of the public: ACTION ITEMS

EWL

I spoke with [redacted] this morning re: the Braidwood tritium issue. She is with Century 21 Advisors and had some concerns re: risk to residents in the area. [redacted] knows a family that owns property [redacted]. This family has [redacted] and is concerned about the potential health affects from the tritium exposure. The family wished to remain anonymous and asked [redacted] to obtain information from the licensee and NRC.

I briefly summarized the status of the tritium issue with [redacted] including the potential health effects. I told her that the highest (and only) drinking water sample was about 1600 pCi/L, which was a small fraction of the 20,000 pCi/L EPA limit. I told her that ingesting tritium at the EPA concentration, resulted in an exposure of about 4 mrem/yr, which is a small fraction of the exposure from natural background or of the NRC limit to a pregnant worker during the term of gestation (500 mrem).

I told her that Exelon had held two public meetings with affected residents and had recently sent out a letter re: the event and their actions re: affected property. I also told her that Exelon was in the process of establishing a website (www.braidwoodtritium.info) to update people on this event. She explained that she had been in touch with Neil Miller, the site communications director, and had recieved a copy of the letter. However, she was still concerned re: whether the people she knew could sell their house. I explained that they should contact Exelon for concerns with this issue.

[redacted] wanted to know what the EPA limit and highest well water sample results were if translated from pCi/L to ppm and whether there was an LD-50 limit for tritium. I am not sure if you could do this conversion or if an LD-50 limit exists (I don't think so). However, Steve if you could lend some insight I would appreciate it.

I gave [redacted] with my phone number and asked that either she or the people she was representing contact me if they needed additional info. She mentioned that they may be interested in having the NRC sample their water. I asked her to please contact me if that was the case. She seemed satisfied with the call and other than the questions above, had no issues.



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thanks...N

CC: Gregory Roach; Steven Ray

$$\frac{1 \text{ pCi H-3}}{2} \times \frac{1 \text{ L}}{1000 \text{ cc}} \times \frac{1 \text{ cc}}{1 \text{ g}} \times \frac{1 \times 10^{-12} \text{ Ci H-3}}{1 \text{ pCi}} \times \frac{9 \text{ H-3}}{9.64 \times 10^3 \text{ Ci H-3}} = \frac{9 \text{ H-3}}{9 \text{ H}_2\text{O}}$$

$$= \frac{1.037 \text{ E-19 } 9 \text{ H-3}}{9 \text{ H}_2\text{O}}$$

$$= \frac{1.037 \times 10^{-13} \text{ ppm}}{1}$$

1 pCi/L

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LD-50 =