

**From:** "Jacobsen, Joe" <jacobsenj@BATTELLE.ORG>  
**To:** <GMM@nrc.gov>  
**Date:** 07/02/2007 7:32:12 AM  
**Subject:** Results of Review of RESRAD run for Battelle West Jefferson North Site for higher Sr-90 in groundwater-FYI 7/2/07

Mike, we have completed our review of the impact to the earlier Battelle License Termination Request submittal of the Site Dose Model of assuming a higher Sr-90 groundwater number of 29pCi/Liter, which is the average for the Bog Layer Groundwater, instead of the submitted Site Dose Model value of 22 pCi/Liter Sr-90 in the groundwater. The goal of this review was to verify the extent of the impact of the higher Sr-90 value on the groundwater analysis and the all pathways analysis. The summary below is from the Battelle RESRAD model support staff member whom did the runs in the submitted Site Dose Model.

If I can be of any further assistance please advise.

Joe Jacobsen Battelle NRC License RSO

Joe--

It turned out to be a ratio and no additional RESRAD runs were needed. If we assume that the farmer uses the bog for drinking water, plants, and water for stock (i.e., meat and milk), the dose is 3.208 mrem/yr.

If we leave out the drinking water, the dose is 0.968 mrem/yr.

So our total site dose would be 21.6 to 23.8 mrem/yr, depending on how much conservatism we were willing to accept in the overlapping of the pathways.

Regards,

Steve Maheras

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**From:** "Jacobsen, Joe" <jacobsenj@BATTELLE.ORG>

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