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Weber, Michael

ED **From:** Weber, Michael -EDO
Sent: Wednesday, November 24, 2010 10:38 AM
To: Sheron, Brian
Cc: Bowman, Gregory; Sanfilippo, Nathan; Kotzalas, Margie; Andersen, James
Subject: RESPONSE - QHOs and cancer study

Thanks, Brian

RES **From:** Sheron, Brian
Sent: Wednesday, November 24, 2010 9:43 AM
To: Virgilio, Martin
Cc: Weber, Michael
Subject: FW: QHOs and cancer study

Marty, here is some more info regarding your question about SOARCA and the QHOs.

RES **From:** Uhle, Jennifer
Sent: Friday, November 19, 2010 12:26 PM
To: Sheron, Brian; Lyons, James
Cc: Gibson, Kathy
Subject: QHOs and cancer study

I wanted to highlight the following paragraph because it took a while in DSA to come up with the appropriate words and the following is a good summary:

The NRC-sponsored study objective is to examine whether there is a demonstrable difference in total cancer mortality/morbidity in populations living near nuclear power plants. The study will seek to determine if cancer rates around NPPs are different than like communities without nuclear power plants (control population). Any difference would then have to be further examined in a more detailed cause/effect study to determine whether the difference would be due to radiation from the plant. For example, some types of cancers are not caused by radiation so it would be impossible to attribute that cancer to the plant. In addition, we would also have to determine the radiation exposure to the population in quantitative terms (exactly how many mRem, etc...) and would then need to assess the likelihood that these doses could induce cancer based on current biological studies (ie, studies on a large cell population in the laboratory). Furthermore, if for instance the control (non-nuclear) population were to have a very low risk from cancer, we would not be able to extrapolate this risk to the rest of the U.S. population, which would be necessary to modify the QHO. Therefore, the study alone will not be able to serve as the technical basis to modify the QHO.

T/10