



**Smith Ranch - Highland  
Uranium Project**  
P. O. Box 1210  
Glenrock, Wyoming USA 82637  
Casper: 307-235-1628  
Douglas: 307-358-6541  
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May 4, 2007

Paul Michalak  
U.S. Nuclear Regulatory Commission  
Two White Flint North  
11545 Rockville Pike, T7E18  
Rockville, MD 20852-2738

RE: Additional MILDOS Information for Smith Ranch-Highland

Dear Mr. Michalak:

Please find attached Power Resources Inc.'s (PRI) revision to the "MILDOS Determination of Radiation Doses from Power Resources Inc. Smith Ranch-Highland Uranium In-Situ Recovery Operation". Restoration is limited by our ability to dispose of purge water from each system resulting from Reverse Osmosis (RO) operation. The attached Restoration Water Balance diagram depicts recirculation and disposal water volumes at each RO unit. Water arriving at RO units is filtered and pumped to vented tanks prior to recirculation or disposal. The submitted MILDOS was calculated using radon releases from all RO units and the resultant radiation doses.

The attached report presents calculation of radiation doses at the boundaries in the North, East, West and South directions, as depicted on the attached map. The maximum radiation dose at these locations is 11 mrem/year at the Northern boundary. The calculated value is 11% of the maximum allowable dose to the general public specified in 10 CFR 20. Monitoring radon emissions at the property boundaries of the Smith Ranch-Highland Uranium project is not recommended due to the low doses calculated at the project boundaries.

Also, attached for your information is PRI's Baseline Gamma Survey covering the Southwest Mining areas and Mine Unit 15A.



If you have any questions concerning this submittal please contact me at (307) 358-6541  
ext. 46.

Regards,

A handwritten signature in black ink that reads "John McCarthy". The signature is written in a cursive, flowing style.

John McCarthy  
Manager, Safety, Health and Environment

cc: S. Collings                      C. Foldenauer wo/atta                      File SR 4.6.4.1  
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# SMITH RANCH-HIGHLAND URANIUM RESTORATION WATER BALANCE

