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WMUR: PJG Docket No. 40-3453 04003453110E

MEMORANDUM FOR:

Docket File No. 40-3453

FROM:

Pete J. Garcia, Jr., Project Manager

Operating Facility Section II, WMUR

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SUBJECT:

REVIEW OF ATLAS MINERALS' RESPONSE TO REQUEST

FOR INFORMATION - 40 CFR 190

By letter dated May 19, 1982, Atlas Minerals provided a response to a May 3, 1982 NRC information request. The information request was based on the staff review of Atlas' February 25, 1982 submittal of 40 CFR 190 data for the fourth quarter of 1981.

Discussion

Item 1 of the staff information request concerned the disparity in Ra-226 concentrations at the background air monitoring location for the third and fourth quarters of 1981. This disparity resulted in a large difference in the calculated lung dose for the nearest residence (29.81 mrem and -10.9 mrem). Atlas was asked to provide an explanation for the large difference in Ra-226 concentrations.

Atlas' May 19, 1982 response stated the opinion that the difference in Ra-226 concentrations is due to winter temperature inversions which trap the effluents from wood and coal combustion. This could explain the higher readings at the background site during the fourth quarter since Atlas also stated that wood and coal are used as a primary source of heat in the nearby town of Moab. In any case, the staff concludes that the concentrations at the background site are subject to large fluctuations due to human activity, and therafore the location of the background site should be changed.

Item 2 concerned the unbelievably low concentrations of Rar 226 in soil reported by Atlas 10-16 pti/g compared with the LLD recommended in Regulatory Guide 4.14 of 2 x 10-7). Atlas responsed that typographical errors resulted in the values being reported as 10-16, whereas all actual

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values were of the order of magnitude 10^{-6} . With this explanation, the values reported by Atlas are reasonable.

Item 3 consisted of a request that Atlas provide a commitment to report concentrations of U-nat in soil in units of $\mu Ci/g$ instead of parts per million. Atlas' response provided the requested commitment.

Resolution

The staff concludes that no action is necessary regarding Items 2 and 3. However, the staff will request that Atlas propose for NRC review a new location for the background air monitoring site.

Original signed by

Pete J. Garcia, Jr., Project Manager Operating Facility Section II Uranium Recovery Licensing Branch Division of Waste Management

Original signed by

Approved by:

H. J. Pettengill, Section Leader Operating Facility Section II Uranium Recovery Licensing Branch Division of Waste Management

Case Completed: 04003453110E

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