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Docket File 8829
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URFO:GRK
 Docket No. 40-8829
 04008829190E

MEMORANDUM FOR: Docket File No. 40-8829

FROM: Gary R. Konwinski, Project Manager
 Licensing Branch 2
 Uranium Recovery Field Office, Region IV

SUBJECT: WYOMING FUEL COMPANY (WFC) REPORT OF FLUCTUATING
 RADIUM CONCENTRATIONS IN WELL RB-3

By letter dated January 8, 1986, WFC submitted analytical data for regional baseline monitor well RB-3. The data indicate that all chemical parameters are within limits previously established for the well. The data however showed a large increase in radium concentrations. Historical radium concentrations have averaged 1 pCi/l with the highest recorded value being 3.4 pCi/l. The sampling results of October 23, 1985 indicated 13.9 pCi/l re-analysis of the sample indicated 15.4 pCi/l. Based upon these results, WFC collected an additional water sample. Analysis of this sample indicated chemical parameters with normal ranges; however, radium was at 26.7 pCi/l.

Because no mining or lixiviant injections have taken place at the site, it appears that the "elevated" radium concentrations represent normal concentration fluctuations in the ground water. Additionally, Well RB-3 is located approximately 8,000 feet from the proposed wellfield and will not be used to determine upper control limits or baseline concentrations for compliance purposes.

Based upon the above discussion, as well as a January 5, 1986 telephone discussion with Mr. Stephen Collings of WFC, the staff has determined that other wells of equal or greater distance from the wellfield, which are sampled for regional baseline purposes, exhibit similar radium fluctuations. The staff therefore concludes these radium concentrations

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apparently exist in the ground water and that no further licensing action is necessary at this time.

/s/

Gary R. Konwinski, Project Manager
Licensing Branch 2
Uranium Recovery Field Office, RIV

Approved by:

/s/

Harry J. Pettengill, Chief
Licensing Branch 2
Uranium Recovery Field Office, RIV

Case Closed: 04008829190E

OFC	: URFO	: URFO	:	:	:	:	:
NAME	: Konwinski	: HPettengill	:	:	:	:	:
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