



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV
 URANIUM RECOVERY FIELD OFFICE
 BOX 26326
 DENVER, COLORADO 80226

JAN 03 1993

MEMORANDUM FOR: Docket File 40-8968
 FROM: Joel Grimm, Project Manager
 SUBJECT: MEETING MINUTES - HYDRO RESOURCES, INC., AND
 CROWNPOINT/CHURCH ROCK REVIEW GROUP

Location: Uranium Recovery Field Office
 Denver, Colorado

Date: December 16, 1993

Attendees:	<u>Review Group</u>	<u>Applicant</u>
	<u>NRC/URFO</u>	<u>Hydro Resources, Inc.</u>
	Edward Hawkins	Richard Clement
	Joel Grimm	Mark Pelizza
	Dana Ward	
	<u>Bureau of Indian Affairs</u>	
	Leonard Robbins	

Summary of Discussion: NRC's project manager for the license application review led the meeting to provide Hydro Resources, Inc. (HRI) with a summary of the Federal review of the company's source material license application, to be presented in a draft Environmental Impact Statement (EIS). The purpose of the meeting was to summarize and clarify the applicant's proposed procedures, equipment, and operations so they may be accurately described for public comment in the EIS. This meeting was open to the public, but no outside persons attended.

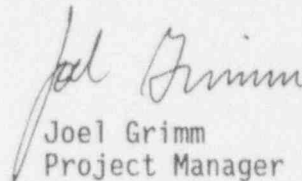
NRC summarized the details of the applicant's proposed well field operations including locations and construction details related to injection, production, and monitor wells. Discussions centered upon casing and screen materials, and integrity test procedures. NRC stated that pipeline materials and designs were generally acceptable, but noted that unburied pipelines could have an impact on small migratory wildlife. This issue will be clarified and resolved in consultation with the U. S. Fish and Wildlife Service. HRI also stated that the lack of an engineering safety factor in pipeline leak tests will be rectified.

Discussion of mine unit restoration covered potentially using reducing chemicals to stabilize aquifer geochemical conditions and the problems associated with these procedures. HRI stated it does not propose this restoration procedure and that existing data indicate that reductant use would probably not be required to restore mine-zone aquifers in this mining area. HRI also discussed recently discovered data pertaining to a restoration test conducted in the early 1980s in the Church Rock area. The test data were

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formally submitted to NRC, and indicate the Westwater sandstone can be restored consuming less ground-water than HRI has predicted. Demonstrating aquifer restoration will also be conducted by HRI concurrently with mine start-up to provide detailed technical data upon which to base reclamation cost estimates and bonding requirements.

Finally, the meeting addressed radiological dose modelling using the MILDOS-Area code, concentrating upon particulate emissions from the main facility's dryer. The discussion centered upon vacuum dryer technology, determining that the combination of a bag filter and vapor condenser captures virtually all particulates from the drying chamber. A vent to the atmosphere may not be required for this type of dryer. Therefore, HRI will consider a design change to address concerns about potential radiological effects on the environment.


Joel Grimm
Project Manager

cc:

D. Sitzler, BLM
L. Robbins, BIA
G. Farris, BIA
M. Drywater, BIA
P. Rogers, Navajo Nation
J. Walker, Navajo Nation
M. Jackson, Navajo Nation
R. Ohrbom, NMED
B. Garcia, RCPD, NM
E. Montoya, NM

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bcc:
Docket No. 40-8968
PDR/DCS
URFO r/f
DDChamberlain, RIV
R. Virgillio, OSP, 3D23
LLUR Branch, LLWM
JPGrimm
DCWard
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PM:URFO	PM:URFO	DD:URFO	D:URFO:RIV	
JPGrimm/db	DCWard	EFHawkins	REHall	
12/29/93	12/29/93	12/30/93	12/30/93	