



United States Department of the Interior

GEOLOGICAL SURVEY
Water Resources Division
Federal Building, Drawer 10076
301 South Park Avenue
Helena, Montana 59626-0076

August 16, 1983

Division of Fuel Cycle and
Material Safety
Office of Nuclear Material
Safety and Safeguards
U.S. Nuclear Regulatory Comm.
Washington, D.C. 20555

Dear Sir:

In response to notification of the expiration date of 09-30-83 for license 25-18269-01, we submit the following information for license renewal. No fee is required for license renewal by a Federal agency. Photocopies showing the changes listed below are attached for reference.

1. The current license has been reviewed. All entries are correct, except for two changes. The corrected entries should read:
 - 1-2. Department of the Interior, U.S. Geological Survey, Water Resources Division, Montana District, 428 Federal Building, Drawer 10076, Helena, MT 59626
 12. Licensed material shall be used by, or under the supervision of Michael R. Cannon, Thomas E. Reed, or Wayne A. Wood. *included (RPO + RSO)*
2. Documents submitted in the past that accurately represent our management control program have been reviewed. Those items are listed below and any needed changes are noted:
 - A. Application for byproduct material license (submitted 09-01-78)--Item 3 to read: Joe A. Moreland. Item 4 to read: 428 Federal Building, Drawer 10076, Helena, MT 59626. Item 6a to read: Michael R. Cannon, Hydrologist. Item 6b to read: Thomas E. Reed, Hydrologic Technician. Item 6c to read: Wayne A. Wood, Hydrologic Technician. New entries are Cannon and Wood; experience and qualification statements of both are

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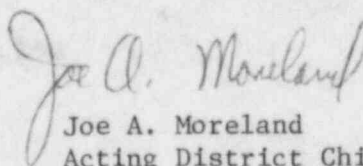
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attached. Both Cannon (06-01-79) and Wood (12-17-80) have satisfactorily completed an instruction and handling training course, Radiation Safety for Oil Well Logging, given by Gulf Nuclear, Inc., Houston, Texas. Joe A. Moreland will function as both District Radiation Protection Officer (item 7) and District Radiation Safety Officer. Item 10, line 1, number available = 1. Item 10, line 2 to read "Geiger Tube, Victoreen, 490 THYAC III, 1, beta-gamma, 0-20 mr/hr."

- B. U.S. Geological Survey, Montana District, Geophysical Borehole Logging Radiation Safety Manual (submitted 09-01-78?)--Page 2, item 2, the Radiation Safety Officer is Joe A. Moreland. Page 2, item 3, A. J. Boettcher on license no. 05-01399-08, U.S. Geological Survey, Denver Federal Center, will be used as Consultant. Page 11, item e, delete second paragraph, "Source will be wipe tested..." Page 11, item e, revise third paragraph to read "Leak test kits will be evaluated by the U.S. Geological Survey in Denver, Colorado."
- C. Letter of 09-07-79 describing corrective actions taken in response to infractions noted during inspection visit.
- 3. After a complete review of the appropriate documents, as amended herein, we believe that they accurately reflect our program and we wish to continue to operate under our current license. We will continue to operate in accordance with those documents and applicable NRC regulations and license conditions.
- 4. Contact name (Joe A. Moreland) and telephone number (FTS 585-5263) can be used for any questions concerning our renewal application. The current address is identified in item 1 of this letter.

Sincerely,


Joe A. Moreland
Acting District Chief

Attachments

cc: Document Management Branch, NRC, Washington, D.C. 20555

Inspected 10/27/83 - no violation observed

Experience and Qualification Statement Supporting Assignment
of Michael R. Cannon as User and/or Supervisor
of Neutron Well Logging Source

I received a M.S. degree in Hydrogeology from the University of Idaho. Course work included the operation of logging equipment, interpretation of geophysical logs, and the theoretical aspects of nuclear and electrical logging equipment. Health and safety aspects of nuclear logging were stressed.

I successfully completed a training course for radiation safety for well logging in June 1979, given by Gulf Nuclear Inc. I have been a licensed operator and have run nuclear logs with the U.S. Geological Survey for the past 4 years.

Experience and Qualification Statement Supporting Assignment
of Wayne A. Wood as User and/or Supervisor
of Neutron Well Logging Source

I received a B.S. degree in Forestry from the University of Montana. In the chemistry and biology courses taken, radioactive materials were studied and safety was stressed.

As a Hydrologic Technician with the U.S. Geological Survey, I have satisfactorily completed Gulf Nuclear's radiation safety course. I have interpreted neutron and natural-gamma logs and have been present when wells have been logged. I have 3 years experience in handling, periodic testing, and storage of radioactive material.

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