



October 6, 2010

Keith I. McConnell, Ph.D
Deputy Director
Division of Waste Management and
Environmental Protection
United States Nuclear Regulatory Commission
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Email: keith.mcconnell@nrc.gov

RE: Pathfinder Mines Corporation; SUA-442 (Shirley Basin Mine); SUA-672 (Lucky Mc Mine); Notice of Personnel Changes

Dear Dr. McConnell:

This is to confirm that Pathfinder Mines Corporation (PMC), licensee under the two above referenced NRC source material licenses, will be having some personnel changes, effective November 1, 2010, and PMC wanted to so advise NRC in advance. If NRC has any concerns, or desires further information, or requests any additional actions be undertaken by PMC, in connection with this, we will much appreciate NRC so advising.

Reclamation of the mill and tailings area at the Lucky Mc site (SUA-672) is completed, and in accordance with the Uranium Mill Tailings Radiation Control Act (UMTRCA), PMC has conveyed title to the Lucky Mc restricted area to the US Department of Energy (DOE). Once the long term surveillance fee amount is finalized and paid, we understand NRC will terminate the specific license held by PMC, and DOE will then hold the area under a NRC general license.

At Shirley Basin (SUA-442), reclamation is also largely completed. A small portion of the Shirley Basin tailings area remains open in order that it can continue to receive, for disposal, byproduct from certain in-situ leach uranium projects. Once that activity has concluded, reclamation of the tailings area there will be completed, and title transferred to DOE, per the requirements of UMTRCA.

PATHFINDER

In view of the significantly diminished level of activity at PMC, a staff reduction has been announced. As of November 1, 2010, staff will be reduced, and the reduction includes Mr. Thomas Hardgrove. Mr. Mark Owens will be continuing with PMC, performing a variety of functions, and among those will be functions which Mr. Hardgrove has been performing relating to radiation safety officer, licensing, regulatory and environmental matters.

Mr. Owens has previously had radiation safety technician training, and been certified in that area, but that was some time ago and his certification has expired. Accordingly, Mr. Owens will in the near future take the radiation safety training course again. Attached is a copy of the curriculum for the radiation safety training course Mr. Owens intends to complete.

Mr. Owens holds a degree in Geosciences, and has worked with PMC for over 25 years. He has extensive experience in uranium mine and mill operations, both conventional and ISR, as well as decommissioning experience. He is very familiar with both the Lucky Mc and Shirley Basin operations and sites. He would be pleased to meet with you or any other NRC representatives if that would be of interest.

Consulting contracts have been proposed to the PMC employees who are within the force reduction, under which they could continue to provide services to PMC on a consulting basis if they chose to accept the consulting contracts. Those proposed consulting agreements are under review and consideration at this time.

PMC has reviewed its NRC licenses, and to date has not identified specific provisions pertaining to this change in personnel, but PMC wanted to advise NRC in case NRC desired any further actions be implemented by PMC.

Thank you for your consideration of the above, and we will be pleased to provide any other information desired.

Sincerely,

Bernard Bonifas
General Manager

A handwritten signature in blue ink, appearing to read "B. Bonifas", with a long horizontal flourish extending to the right.

Nevada Technical Associates, Inc.
Radiation Safety Officer
Course Outline

Starting time: 8:30 each day. The course will end at about noon on Friday. The topics below will be more or less evenly distributed over the duration of the course. Attendees will receive a manual of several hundred pages and a course certificate.

1. Introduction
 - a. Course objectives and schedule
 - b. Origins of nuclear science
 - c. Atomic structure, isotopes, nuclear stability
 - d. Equations of radioactive decay

2. Radioactive Decay Processes
 - a. Alpha emission
 - b. Beta emission
 - c. Gamma emission
 - d. Other decay processes
 - e. Statistics of radioactive decay

3. Radiation Detection and Measurement
 - a. Gas-filled chambers
 - b. Scintillation detectors
 - c. Semi-conductors
 - d. Photographic emulsions

4. Interaction of Radiation with Matter
 - a. Modes of interaction
 - b. Heavy charged particle interactions
 - c. Beta particle interaction
 - d. Gamma ray interaction
 - e. Neutron interaction

5. Biological Effects of Radiation

- a. Radiation quantities and units
- b. Quality factors
- c. Biological effects
- d. Mechanisms of biological damage
- e. Acute, whole-body gamma radiation
- f. Risk of stochastic effects
- g. Fatality rates in various industries
- h. Radiation dose from natural and man-made sources

6. Shielding

- a. Charged particle shielding
- b. Photon shielding
- c. Neutron shielding
- d. Facility shielding

7. Personnel Radiation Dosimetry Devices and Methods

- a. External monitoring
- b. External dose evaluation
- c. Internal monitoring
- d. Internal dose assessment

8. Federal and State Regulations

- a. Chronology of standards
- b. Sources of standards, recommendations and requirements
- c. Basis of Standards
- d. Current regulations
- e. Licensing procedure

9. Radiological Safety Surveys, Records and Documentation

- a. Surveys and inspections
- b. Radiological Controls and ALARA
- c. Records and documents
- d. Operating and emergency procedures and document control

10. Radioactive Material Transportation and Disposal Regulations

- a. Applicable regulations
- b. Categories, packaging and limits
- c. Manifests, records, markings, and labels
- d. Radwaste disposal methods, sites, records and regulations

11. Radiological Emergencies

- a. Definitions, classifications and phases
- b. Notifications and assistance
- c. Response: isolation, radiation and medical evaluations
- d. Review of accident causes and recent accidents

12. Drafting a Radiological Safety Plan (student exercise)

- a. Attendees prepare program
- b. Exercise review