



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-4005

March 17, 2005

Mr. T. W. Hardgrove
Environmental & Regulatory Services
Pathfinder Mines Corporation
935 Pendell Blvd.
P.O. Box 730
Mills, Wyoming 82644

SUBJECT: PATHFINDER MINES CORPORATION (SHIRLEY BASIN MINE) SEMI-ANNUAL
RADIOLOGICAL EFFLUENT AND ENVIRONMENTAL MONITORING REPORT

Dear Mr. Hardgrove:

I am responding to your letter dated February 22, 2005, in which you transmitted the Semi-Annual Radiological Effluent and Environmental Monitoring Report, Third and Fourth Quarters 2004, in accordance with 10 CFR 40.65 and License Condition 22, of Source Material License SUA-442. The report is under review and if there are any further questions, we will contact you with additional correspondents.

If you have any questions concerning this letter, please contact Judith Walker of my staff or myself, Jack E. Whitten. We can be reached at 817-860-8299 and 817-860-8197, respectively or via e-mail at jlw3@nrc.gov and jew1@nrc.gov, respectively.

Please note, in accordance with 10 CFR 40.65, future Semi-annual Radiological Effluent and Environmental Monitoring Reports should be submitted to project management in Headquarters and a cc: provided to Region IV.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Sincerely,

Jack E. Whitten, Chief
Nuclear Materials Licensing Branch

Docket No.: 040-06622
License No.: SUA-442