

October 19, 2005

Mr. T.W. Hardgrove
Pathfinder Mines Corporation
935 Pendell Boulevard
P.O. Box 730
Mills, WY 82644

SUBJECT: SEMIANNUAL EFFLUENT REPORT, PATHFINDER MINES CORPORATION
SHIRLEY BASIN SITE, SOURCE MATERIALS LICENSE SUA-442 (TAC
L60477)

Dear Mr. Hardgrove:

By letter dated August 30, 2005, Pathfinder Mines Corporation (PMC) submitted to U.S. Nuclear Regulatory Commission (NRC) staff a semiannual effluent report for PMC's Shirley Basin site. NRC staff has reviewed this report and has no questions, at this time. If we should have future questions, we will address them under separate correspondence. If you have any questions, please contact me at 301-415-7182 or by e-mail at sjc7@nrc.gov.

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

Sincerely,

\RA\

Stephen J. Cohen, Project Manager
Uranium Processing Section
Fuel Cycle Facilities Branch
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

Docket No.: 40-6622
License No.: SUA-442

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| NAME | S. Cohen | | B. Garrett | | Acting Chief | | | |
| DATE | 10/17/05 | | 10/18/05 | | 10/19/05 | | | |

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