



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 22, 2017

Mr. William P. Goranson
Executive Vice President ISR Operations
Uranerz Energy Corporation
1701 East "E" Street
Casper, WY 82605

SUBJECT: AMENDMENT NO. 5, SOURCE MATERIAL LICENSE NO. SUA-1597,
NICHOLS RANCH IN SITU RECOVERY PROJECT, JOHNSON AND
CAMPBELL COUNTIES, WY, JANE DOUGH UNIT (TAC NOS. J00726 AND
J00875)

Dear Mr. Goranson:

By letter dated May 8, 2014, (U.S. Nuclear Regulatory Commission's (NRC's) Agencywide Documents Access and Management System (ADAMS) Accession No. ML14164A274), Uranerz Energy Corporation (Uranerz) submitted a request for amendment to Source Material License SUA-1597 for the Nichols Ranch In Situ Recovery (ISR) Project. In the license amendment request, Uranerz proposed to add new wellfields in the Jane Dough Unit to licensed activities at the Nichols Ranch ISR Project.

The NRC staff has completed its review of the Jane Dough Unit license amendment request and approves this request. Enclosed, please find the NRC staff's "*Safety Evaluation Report, License Amendment for the Jane Dough Unit at the Nichols Ranch In Situ Recovery Project in Johnson and Campbell Counties, Wyoming, Revision 1*" (Enclosure 1) and Source Material License No. SUA-1597, Amendment 5 (Enclosure 2). Revision 1 of the SER corrects SER Section 5.2.3.1, "Airborne Effluent Monitoring," a subsection titled, Consideration of radon-222 progeny, which includes a summary of Uranerz' methods for annually demonstrating that public dose limits are met. Amendment No. 5 to Uranerz's Source Material License reflects changes to the license conditions to include the Jane Dough Unit in licensed activities at the Nichols Ranch ISR Project. Uranerz accepted the license conditions in this Amendment by e-mail dated February 7, 2017 (ADAMS Accession No. ML17039A807).

Pursuant to requirements under the National Environmental Policy Act, staff prepared an Environmental Assessment for this action (ML17047A666). The Finding of No Significant Impact for this action was published in the *Federal Register* on March 22, 2017 (82 FR 14759).

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

W. Goranson

-2-

If you have any questions regarding this action, please contact Mr. David Brown, at 301-415-7677 or, by e-mail, at David.Brown@nrc.gov.

Sincerely,

/RA/

Andrea Kock, Deputy Director
Division of Decommissioning, Uranium Recovery
and Waste Programs
Office of Nuclear Material Safety
and Safeguards

Docket No.: 040-09067
License No.: SUA-1597

Closes TAC Nos.: J00726 and J00875

Enclosures:

1. Safety Evaluation Report, Rev. 1
2. Amendment No. 5, Source Material
License No. SUA-1597

cc: D. Larner, WDEQ

W. Goranson

-2-

If you have any questions regarding this action, please contact Mr. David Brown, at 301-415-7677 or, by e-mail, at David.Brown@nrc.gov.

Sincerely,

/RA/

Andrea Kock, Deputy Director
Division of Decommissioning, Uranium Recovery
and Waste Programs
Office of Nuclear Material Safety
and Safeguards

Docket No.: 040-09067
License No.: SUA-1597

Closes TAC Nos.: J00726 and J00875

Enclosures:

1. Safety Evaluation Report, Rev. 1
2. Amendment No. 5, Source Material
License No. SUA-1597

cc: D. Lamer, WDEQ

DISTRIBUTION: L. Brookhart, R-IV B.Baca, R-IV

ML17033A329 (Package)

| OFFICE | NMSS:PM | NMSS | NMSS:LA | NMSS:BC | NMSS:DD |
|---------------|----------|-------------|-----------|------------|---------|
| NAME | D. Brown | L. Desotell | S. Achten | B. VonTill | A. Kock |
| DATE | 2/8/17 | 2/23/17 | 2/23/17 | 3/18/17 | 3/22/17 |

OFFICIAL RECORD COPY