

December 23, 2015

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Office of Nuclear Material Safety and Safeguards Washington, DC 20555-0001

Re: Strata Energy, Inc. Ross In Situ Recovery Project

Source Materials License SUA-1601, Docket No. 040-09091

Request to Amend License Condition 10.12

To Whom It May Concern:

Strata Energy, Inc. (Strata) recently completed activities associated with the preparation of the Mine Unit 1 (MU1) Wellfield Data Package required by License Condition (LC) 10.13 of SUA-1601. During the review and verification process conducted by NRC staff, the amended LC 10.12 language, contained in Amendment 1 of SUA-1601 as a result of the Atomic Safety and Licensing Board (ASLB) Initial Decision in LBP-15-3, required significant clarification between NRC staff and Strata. The clarification necessary to allow NRC staff verification is documented in the November 2015 "Technical Evaluation Report, Materials License SUA-1601, Verification of Mine Unit 1 Wellfield Package" (TER, ML15324A441) and associated correspondence. In order to prevent future clarification issues, Strata is requesting that NRC amend LC 10.12 to better reflect NRC staff requirements and site-specific attributes of the Ross ISR Project. The following provides a brief technical discussion, existing LC 10.12 language, and proposed amended language for LC 10.12.

DISCUSSION

I. LBP-15-3 and the Revised LC 10.12 Language were Clearly Intended to Address Downward Vertical Migration of Solutions in an Alternate Concentration Limit (ACL) Scenario

In 4.130 of LBP-15-3, the ASLB contemplated potential impacts to the underlying monitoring interval (deep monitor or "DM" zone) downgradient from the production zones (ore zone or "OZ") due to the uncertainty of declining concentrations of uranium in an ACL scenario decades after restoration. In order to address this concern, the ASLB initial decision in LBP-15-3 and the resulting Amendment 1 to SUA-1601 require Strata to attempt to locate and re-abandon downgradient historic drill holes that penetrate into the DM interval and are a specified distance from the perimeter monitor well ring. That distance is the closer of the aquifer exemption boundary prescribed from the EPA or the NRC license boundary. In practice the

NMSSOI

closer boundary will always be the aguifer exemption boundary, since it lies entirely within the NRC license boundary and beyond the perimeter monitor (PM) well ring. Strata interpreted the amended language to require re-abandonment of the drill holes that penetrate the DM interval from the perimeter monitor well ring to the science-based aguifer exemption boundary, which is 100 feet beyond the perimeter well ring. The Ross MU1 wellfield is the most upgradient of the Ross mine units, with several thousand feet to the downgradient project-wide aquifer exemption boundary. NRC staff interpreted the amended LC as requiring plugging of all historic drill holes downgradient of MU1 to the overall Ross ISR Project aguifer exemption boundary. This interpretation required nearly 125 drill holes outside of the MU1 perimeter ring to be reentered for abandonment. These drill holes were in addition to the 434 holes previously reentered and re-abandoned in support of the MU1 Wellfield Data Package. The discussions between NRC staff and Strata in three Category 1 public meetings and as documented in the TER required significant time as did the re-abandonment of these additional drill holes. In order to clarify the intent of LC 10.12 Strata is requesting that NRC amend LC 10.12 in order to better align the NRC staff objectives in an ACL application scenario and site-specific conditions encountered at the Ross ISR Project.

The revised language that Strata is requesting has been proposed by NRC staff as part of the AUC LLC, Inc. licensing process for the Reno Creek ISR Project (ML15323A358) and reflects NRC staff requirements of a licensee in terms of protection of an underlying interval in a future potential ACL application.

Strata requests that NRC amend LC 10.12 as follows:

II. Current License Condition 10.12 with Strikethrough and Replacement Text Indicating Language to be Revised:

Prior to conducting tests for a wellfield data package, the licensee will attempt to locate and abandon all historic drill holes within: A) Ithe perimeter well ring for the Wellfield; and B). In addition, Ito the extent the historic drill holes extend into the first underlying aquifer, the licensee will attempt to locate and abandon all historic drill holes within an area that is downgradient of the Wellfield and is between the perimeter well ring for the Wellfield and the closer of either

- i. The Ross Project license area boundaries shown in Figure 1.4-2 of the approved license application; or
- ii. The outer boundary of the exempted aquifer as defined by the Class III UIC permit issued by the Wyoming Department of Environmental Quality.

and the anticipated point of exposure for a future ACL application pursuant to 10 CFR Part 40, Appendix A, Criterion 5B(5)(c) either

- i. Prior to the start of operations of the Wellfield proposed in the wellfield data package; or
- ii. Prior to the submittal of an ACL application. If the drill holes are abandoned after the start of operations of a wellfield, then the licensee will be required to attempt to

verify the location of such drill holes prior to the start of operations of that wellfield and provide the cost to cover the eventual abandonment of the drill holes in its financial assurance estimate.

The licensee will document such efforts to identify and properly abandon all drill holes in the wellfield data package.

The requested amendment will meet the requirements of the ASLB initial decision while preventing future confusion regarding drill hole abandonment efforts. To support Strata's request, attached please find the following information:

- Completed Form 313, as required by 10 CFR Part 40 (Attachment 1)
- Supplement to Form 313 (Sections 5-11) (Attachment 2)

Please contact me if you have any questions. You can reach me at (307) 686-4066 or mgriffin@stratawyo.com.

Sincerely, Strata Energy, Inc.

Michael Griffin

Vice President of Permitting, Regulatory and Environmental Compliance

cc: Mr. John Saxton, NRC Project Manager - via email

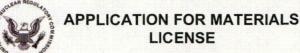
Enclosures: As Noted

Attachment 1

ROSS ISR PROJECT SUA-1601 SOURCE AND BYPRODUCT MATERIALS LICENSE AMENDMENT REQUEST

NRC Form 313

(10-2015) 10 CFR 30, 32, 33, 34 35, 36, 37, 39, and 40



Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001 or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503, If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW. *AMENDMENTS/RENEWALS THAT INCREASE THE SCOPE OF THE EXISTING LICENSE TO A NEW OR HIGHER FEE CATEGORY WILL REQUIRE A FEE.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

MATERIALS SAFETY LICENSING BRANCH DIVISION OF MATERIAL SAFETY, STATE, TRIBAL AND RULEMAKING PROGRAMS OFFICE OF NUCLEAR MATERIAL'S SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,

SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM DIVISION OF NUCLEAR MATERIALS SAFETY U.S. NUCLEAR REGULATORY COMMISSION, REGION I 2100 RENAISSANCE BOULEVARD, SUITE 100 KING OF PRUSSIA, PA 19406-2713

IF YOU ARE LOCATED IN

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING.

SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 1600 E. LAMAR BOULEVARD ARLINGTON, TX 76011-4511

DEFINENT OF A THE OFFICE ADDITIONS TO THE U.S. WILLIAM TO THE OFFICE ADDITIONS OF THE OFFICE ADDITIONS

					U.S.NUCLEAR REGUL			
THIS IS AN APPLICATION FOR (Check appropriate item)					2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)			
A. NEW LICENSE					Mike Griffin			
■ B. AMENDMENT TO LICENSE NUMBER SUA-1601				P.O. B	P.O. Box 2318			
C. RENEWAL OF LICENSE NUMBER					e, WY 82717			
C. RENEWAL OF LICENSE NUMBER								
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED					4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION			
				Mike C	Mike Griffin			
Ross ISR Project					TELEPHONE NUMBER	BUSINESS CELLULA	AR TELEPHONE NUMBER	
2929 New Haven Road					(307) 686-4066			
Oshoto, WY 82721				BUSINESS	BUSINESS EMAIL ADDRESS			
				mgriffi	mgriffin@stratawyo.com			
SUBMIT ITEMS 5 T	THROUGH 11 ON 8-1/2	X 11" PAPER. THE	TYPE AND SCOPE OF IN	NFORMATION TO BE	PROVIDED IS DESCRIBED IN	THE LICENSE APPLICATION	N GUIDE.	
5. RADIOACTIVE MATERIAL					6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.			
 Element and mass number; b. chemical and/or physical form; and c. maiximum amount which will be possessed at any one time. 				7. INDIVI	INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.			
8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.				AS. 9. FACILI	9. FACILITIES AND EQUIPMENT.			
10. RADIATION SAFETY PROGRAM.					11. WASTE MANAGEMENT.			
12. LICENSE FEES (Fees required only for new applications, with few exceptions*) (See 10 CFR 170 and Section 170.31)					EGORY	AMOUNT ENCLOSED \$		
13. CERTIFICATIO UPON THE AP		by applicant) THE	APPLICANT UNDERSTAN	IDS THAT ALL STATI	EMENTS AND REPRESENTATION	ONS MADE IN THIS APPLIC	ATION ARE BINDING	
CONFORMITY WIT TO THE BEST OF WARNING: 18 U.S	TH TITLE 10, CODE OF THEIR KNOWLEDGE A S.C. SECTION 1001 ACT	FEDERAL REGULA AND BELIEF. T OF JUNE 25, 1948	TIONS, PARTS 30, 32, 33,	, 34, 35 , 36, 37, 39, <i>I</i> A C RIMINAL OFFEN	, NAMED IN ITEM 2, CERTIFY T NDD 40, AND THAT ALL INFORM SE TO MAKE A WILLFULLY FAI N.	MATION CONTANED HEREI	N IS TRUE AND CORRECT	
CERTIFYING OFFICER – TYPED/PRINTED NAME AND TITLE S					RE MAR		DATE	
Mike Griffin, VPPermitting, Regulatory and Environmental Compliance					all		12-23-15	
FOR NRC USE ONLY								
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS			
APPROVED BY				DATE				

Attachment 2 ROSS ISR PROJECT SUA-1601 SOURCE AND BYPRODUCT MATERIALS LICENSE AMENDMENT REQUEST

NRC Form 313 Attachment Items 5 Through 11

Applicant

Strata Energy, Inc. 1900 W. Warlow Dr., Bldg. A Gillette, Wyoming 82716

5. RADIOACTIVE MATERIAL:

a) Element and Mass Number:

Uranium: Unat (U238, U234, and U235)

b) Chemical and/or Physical Form:

Chemical form is UO₄

Solution of 0 to 50 grams/liter

Dried Yellowcake: 50% to 80% U

c) Maximum Amount which will be possessed at any one time:

Unlimited

6. PURPOSE FOR WHICH LICENSED MATERIAL WILL BE USED:

Fuel for electricity generation from nuclear power plants.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE:

Individual:

Nikolas Roche, RSO

Training:

g: Master's Degree in Health Physics from Colorado State University; three (3) weeks of specialized training in information directly relevant to Uranium Recovery facilities; two (2) years of experience working at a uranium recovery facility at Cameco's Smith Ranch-Highland site (2012-2013); currently Radiation Safety Officer for Strata Energy, Inc. (2015-present).

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS:

This information is provided in detail in Section 5 of the approved License Application and supplemental submissions.

9. FACLITIES AND EQUIPMENT:

This information is provided in detail in Section 3 of the approved License Application and supplemental submissions.

10. RADIATION SAFETY PROGRAM:

This information is provided in detail in Section 5 of the approved License Application and supplemental submissions.

11. WASTE MANAGEMENT:

This information is provided in detail in Section 4 of the approved License Application and supplemental submissions.