

ACCEPTANCE REVIEW MEMO (ARM)

Licensee: Thompson Creek Mining Company

License No.: 11-27313-01

Docket No.: 030-32198

Mail Control No.: 471564

Type of Action: Amend

Date of Requested Action: 11-08-07

Reviewer Assigned:

ARM reviewer(s): Cook

Response	Deficiencies Noted During Acceptance Review
	<input type="checkbox"/> Open ended possession limits. Limit possession. Submit inventory. <input type="checkbox"/> Submit copies of most recent leak test results. <input type="checkbox"/> Add - delete IC license condition. Add IC paragraph in cover letter. <input type="checkbox"/> Split license from cover letter. Add SUNSI marking to license. <input type="checkbox"/> Ask the licensee if they have any type-amount of EPAct Material.

Reviewer's Initials: _____

Date: _____

- Yes No Unrestricted release Group 2 or >: Transfer memo to FCDB within 10 days.
 Yes No Decommissioning notification should be completed within 30 days.
 Yes No Termination request < 90 days from date of expiration
 Yes No Expedite (medical emergency, no RSO, location of use/storage not on license, RAM in possession not on license, other)
 Yes No TAR needed to complete action.

Branch Chief's and/or HP's Initials: BB Browder **Date:** 11-16-07

SUNSI Screening according to RIS 2005-31

Yes No **Non-Publicly Available, Sensitive** if any item below is checked

General guidance:

- _____ RAM = or > than Category 3 (Table 1, RIS 2005-31), use Unity Rule
- _____ Exact location of RAM (whether = or > than Category 3 or not)
- _____ Design of structure and/or equipment (site specific)
- _____ Information on nearby facilities
- _____ Detailed design drawings and/or performance information
- _____ Emergency planning and/or fire protection systems

Specific guidance for medical, industrial and academic (above Category 3):

- _____ RAM quantities and inventory
- _____ Manufacturer's name and model number of sealed sources & devices
- _____ Site drawings with exact location of RAM, description of facility
- _____ RAM security program information (locks, alarms, etc.)
- _____ Emergency Plan specifics (routes to/from RAM, response to security events)
- _____ Vulnerability/security assessment/accident-safety analysis/risk assess
- _____ Mailing lists related to security response

Branch Chief's and/or HP's Initials: BB Browder **Date:** 11-16-07

Pre-Licensing Screening

Applicant Information:

Control No. 471564

Name: Thompson Creek Mining Company	Type of Request: Amend Program Code(s): 03120
Location: ID	License No.: 11-27313-01 Docket No.: 030-32198

STEP 1—Radioactive Materials and Quantities Requested:

Instructions for Step 1: Complete Step 1 for all applications. If all your responses in Step 1 are "No" then do not complete Step 2 (Screening Criteria). Sign and date the completed step-sheet and add it as the sensitive and non-publicly available OAR in ADAMS. If a "yes" response is indicated for any item in Step 1, also complete Step 2. If the type of use is subject to a Security Order or the requirements for increased controls, complete Step 3 (Item A or Item B) without delay.	Yes or No
A. The request is from a new applicant.	No
B. NUREG-1556, Volume 20, Section 4.9 indicates a licensing site visit is needed for the requested type of use, e.g., (1) Type A broad scope license, (2) panoramic irradiator containing > 10000 curies, (3) manufacturers or distributors using unsealed radioactive material or significant quantities of sealed material, (4) radioactive waste brokers, (5) radioactive waste incinerators, (6) commercial nuclear laundries, and (7) any other application that in the judgement of the reviewer and cognizant supervisor involves complex technical issues, complex safety questions, or unprecedented issues that warrant a site visit.	No
C. The applicant requested certain radionuclides and quantities that equal or exceed the Risk Significant Quantity (TBq) values in the table, below, that have been "highlighted" by the reviewer	No

Table of Risk Significant Quantities

(Category 2 Quantities, IAEA Safety Guide No. RS-G-1.9, Categorization of Radioactive Sources, August 2005)

Radionuclide	Risk Significant Quantity (TBq ¹)	Risk Significant Quantity (Ci ¹)	Radionuclide	Risk Significant Quantity (TBq ¹)	Risk Significant Quantity (Ci ¹)
Am-241	0.6	16	Pm-147	400	11,000
Am-241/Be	0.6	16	Pu-238	0.6	16
Cf-252	0.2	5.4	Pu-239/Be	0.6	16
Cm-244	0.5	14	Ra-226 ²	0.4	11
Co-60	0.3	8.1	Se-75	2	54
Cs-137	1	27	Sr-90 (Y-90)	10	270
Gd-153	10	270	Tm-170	200	5,400
Ir-192	0.8	22	Yb-169	3	81

¹ The primary values are TBq. The curie (Ci) values are for informational purposes only.

² The Atomic Energy Act, as amended by the Energy Policy Act of 2005, authorizes NRC to regulate Ra-226 and NRC is in the process of amending its regulations for discrete sources of Ra-226.

Calculations of the Total Activity or the Unity Rule are attached to document whether or not the screening criteria in Step 2 were also completed to evaluate the application. NOTE—If an amendment of an existing license is being requested, the calculations will include the previously authorized quantities for the radionuclide(s).	Yes, No, or Not Applicable (NA)
Total Activity—multiple activities are requested for a single radionuclide and the sum of the activities equals or exceeds the quantity of concern for the radionuclide	N/A
Unity Rule—multiple radionuclides are requested and the sum of the ratios equals or exceeds unity, e.g., [(total activity for radionuclide A) ÷ (risk significant quantity for radionuclide A)] + [(total activity for radionuclide B) ÷ (risk significant quantity for radionuclide B)] ≥ 1.0.	N/A

Signature and Date for Step 1:

RSB 11-16-07
License Reviewer and Date

From: "Rick Swindell" <rswindell@tcreek.com>
To: <rsb3@nrc.gov>
Date: 11/10/2007 2:00:33 PM
Subject: license expedition

Rachael,

Thank you for the call back today 11/9/2007. Thompson Creek Mining Company would like to ask for the expedition of amendment for our nuclear license, due to turn around time and the importance to calibrate equipment on the mine site. It would be very much appreciated and thank you for your consideration.

Rick Swindell

RSO

HR/Safety Rep.

Thompson Creek Mining Company

PO Box 62

Clayton, Id 83227

208-838-3534

Mail Envelope Properties (47360DBA.CB4 : 9 : 19636)

Subject: license expedition
Creation Date 11/09/2007 12:40:35 PM
From: "Rick Swindell" <rswindell@tcreek.com>

Created By: rswindell@tcreek.com

Recipients

nrc.gov
ARL_PO.ARL_DO
RSB3 (Rachel Browder)

Post Office

ARL_PO.ARL_DO

Route

nrc.gov

Files	Size	Date & Time
MESSAGE	435	11/09/2007 12:40:35 PM
TEXT.htm	3365	
Mime.822	5468	

Options

Expiration Date: None
Priority: Standard
ReplyRequested: No
Return Notification: None

Concealed Subject: No
Security: Standard

Junk Mail Handling Evaluation Results

Sender: rswindell@tcreek.com
Message is eligible for Junk Mail handling
This message was not classified as Junk Mail
Sender e-mail address is not in recipient's personal address book

Junk Mail settings when this message was delivered

Junk List is not enabled
Junk Mail using personal address books is not enabled
Block List is enabled



RECEIVED

NOV 13 2007

DNMS

11/8/2007

U. S. Nuclear Regulatory Commission
Materials Licensing Branch
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

REF: Request for License Amendment

Gentlemen:

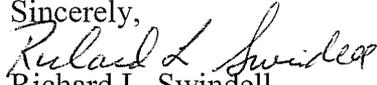
The purpose of this letter is to request an amendment to License No. 11-27313-01 to add a gamma calibration source to be used in a laboratory environment for calibration of instruments.

A series of gamma calibration sources are described in the Registry of Radioactive Sealed Sources and Devices, number CA0406S148S, issued by the State of California to Isotope Products Laboratories. The Registry Sheet requires that these sources be specifically licensed, and that they be leak tested at six-month intervals. The specific source we will obtain is described below:

Manufacturer	Model No.	Isotopes	Activity
Isotope Products	EG-ML 7500 Series	Cd-109, Co-57, Ce-139, Hg-203, Sn-113, Sr-85, Cs-137, Co-60 & Y-88. Isotopes are sealed in an epoxy matrix.	Total activity of combined isotopes is 3 microcuries.

Manufacturer's instructions for safe handling and use will be followed by laboratory personnel. The source will be leak tested at six month intervals as required by an entity specifically authorized to perform this service. All other conditions of our license remain the same.

Feel free to contact me at (208) 838-2200 Ext. 359 should you have any additional questions.

Sincerely,

Richard L. Swindell
Radiation Safety Officer

P.O. BOX 62 CLAYTON, IDAHO 83227

Phone (208) 838-2200 Fax (208) 838-2299

No. 471564

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 03120
Status Code: 0
Fee Category: 3P
Exp. Date: 20110831
Fee Comments: DEL IC EFF 08/23/01
Decom Fin Assur Reqd: N

BETWEEN:
License Fee Management Branch, ARM
and
Regional Licensing Sections

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
Applicant/Licensee: THOMPSON CREEK MINING COMPANY
Received Date: 20071113
Docket No: 3032198
Control No.: 471564
License No.: 11-27313-01
Action Type: Amendment

2. FEE ATTACHED
Amount: _____
Check No.: _____

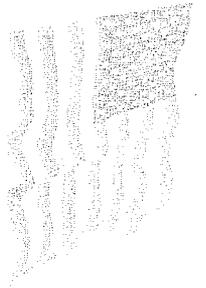
3. COMMENTS
Signed _____
Date 11-15-09

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / /)

- 1. Fee Category and Amount: _____
- 2. Correct Fee Paid. Application may be processed for:
Amendment _____
Renewal _____
License _____
- 3. OTHER _____

Signed _____
Date _____

Thompson Creek
Mining Company
P.O. BOX 62
CLAYTON, IDAHO 83227



U.S. Nuclear Regulatory Commission
Materials Licensing Branch
Region III
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

015198067149
NOV 13 2007
\$0.412
11/09/2007
Billed from 8327
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No 471564

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