

DBI, Inc. Quality Inspection and Consulting Services

Reliable...Responsive...Resourceful...Proactive

RECEIVED

August 22, 2008

AUG 22 2008

DNMS

Nuclear Materials Licensing Branch U.S. Nuclear Regulatory Commission, Region IV 612 East Lamar Boulevard, Suite 400 Arlington, TX 76011-4125

Attention: Rachel Browder

Dear Ms. Browder,

DBI, Inc. is requesting a License amendment to NRC Radioactive Material License number 48-29301-01, Docket number 030-37817.

The item to amendment is for the Byproduct, source, and/or special nuclear material, Cesium-137, the maximum amount that DBI, Inc. may possess on the license from 165 millicuries to 200 millicuries per source

If you have any questions or need any further information please contact me at (402) 467-1818.

Sincerely,

Pennie Frye

Radiation Safety Officer

Penny Type

Lincoln, Nebraska 5330 N. 57th Street Lincoln, NE 68507 Telephone: (402) 467-1818

Fax: (402) 467-1766

Omaha, Nebraska 2211 S. 156th Circle Omaha, NE 68130

Telephone: (402) 330-9612

Fax: (402) 330-9640

Overland Park, Kansas 11660 West 90th Overland Park, KS

Telephone: (913) 888-2321 Fax: (913) 888-2351

Carter Lake, Iowa 520 Locust Carter Lake, IA

Telephone: (712) 347-5296 Fax: (712) 347-5297

ACCEPTANCE REVIEW MEMO (ARM)

Licensee:	DBI, Inc.	License No.: 49-29301-01								
Docket No.:	030-37817	Mail Control No.: 471916								
Type of Actio	on: 4 - Amendment	Date of Requested Action: 8/22/08								
Reviewer Assigned:	T6	ARM reviewer(s): Rachel S. Browder								
Response	Deficiencies	Deficiencies Noted During Acceptance Review								
NOON	[] Open ended possession limits. Submit inventory. Limit possession. [] Submit copies of latest leak test results. [] Add IC L.C./Fingerprint LC, add SUNSI markings to license. [] Confirm with licensee if they have NARM material.									
Reviewer's In	nitials: <u>VSB</u>	Date: 9/6/08								
□Yes □No	Request for unrestricted	release Group 2 or >. Consult with Bravo Branch.								
□Yes □No	Termination request < 9	0 days from date of expiration								
□Yes □No	•	gency, no RSO, location of use/storage not on sion not on license, other)								
□Yes □No	TAR needed to complet	e action.								
Branch Chie	ef's and/or HP's Initials:	Date:								
<u> </u>										
	SUNSI Screening	g according to RIS 2005-31								
□Yes ☑No		olicly Available if any item below is checked								
	_RAM = or > than Category = _Exact location of RAM [suite whether = or > than Catego _Design of structure and/or e _Information on nearby facili _Detailed design drawings a _Emergancy planning and/or	equipment (site specific) ties nd/or performance information r fire protection systems								
	_RAM quantities and invento _Manufacturer's name and n _Site drawings with exact loo _RAM security program infor _Emergency Plan specifics (routes to/from RAM, response to security events) sment/accident-safety analysis/risk assess								
pranch chi	si 5 anu/oi me 5 iniliais:	NOC Date. 1/1/1/10								

Checklist to Ensure That Radioactive Material Will Be Used as Intended

Applicant Information:	Control No. 471916
Applicant intomitation.	00111101 110. 47 19 10

Name: DBI, Inc.	Type of Request: 4 - Amendmen Program Code(s): 3320	t
Location: WY\	License No.: 49-29301-01	Docket No.: 030-37817

STEP 1, ITEM A - INITIAL SCREENING

Instructions for Step 1: Complete Step 1 for all applications. If Step 1, Items A and B, are "YES" then do not complete Step 2. Sign and date the completed form and add it to ADAMS as Non-Sensitive and Non-Publicly Available. If a "NO" response is indicated for Item A or Item B, add the completed form to ADAMS as Sensitive and Non-Publicly Available, and complete Step 2 (Additional Screening). If the type of use is subject to a Security Order, complete Step 3, Item A, without delay. If the additional requirements for increased controls will be applied or voided, complete Step 3, Item B, without delay.					
A.	The applicant is a known entity or a licensee transferring control to a known entity. This determination has been made using the screening criteria in Worksheet A below.	yes			

Worksheet A

right. Bes "Yes" in S reviewer l If the app	ons for Worksheet A: Answer each of the 6 questions below by placing a "Yes", "No", or "NA" response in the column on the t practices for a reviewer are provided after each of the questions. If the answer to any of the 6 questions is "Yes" then indicate step 1, Item A, above. If the answers to all of the 6 questions is "No" then indicate "No" in Step 1, Item A, above. NOTE - If the has personal knowledge of the applicant's veracity, this can be taken into account in responding to any questions. For example, licant's management and/or RSO have been associated with a current or previous NRC or Agreement State license, then the may be considered as a known entity.	YES, NO, or NA
1.	Does the applicant have a current Agreement State or NRC license? The reviewer should 1) confirm that a valid license/registration/authorization exists for the applicant; and 2) compare the current license to the application to verify that the application represents a reasonable expansion of the licensee's operation (i.e., medical facility adding a gamma knife or an Agreement State licensee obtaining an NRC license in order to work in NRC jurisdiction without filing reciprocity).	Yes
2.	Does the applicant have a current Agreement State or NRC license at another location and the new application represents the addition of a new facility within the scope of the licensee's core business? The reviewer should contact the appropriate licensing authority to confirm that a valid license/registration/authorization exists for the applicant and the corporate office of the licensee to verify that it has knowledge of and approves of the new application.	Yes
3.	Does the applicant have a current State or Federal government license, registration, authorization, etc., for other operations within the scope of its proposed license activities? (e.g., a company authorized by a State for mining that is now requesting authorization to use fixed gauges). The reviewer should contact the appropriate government office to confirm that the license, registration, authorization, etc., is valid; and the applicant's corporate office to confirm that it has knowledge of and approves of the new application to possess radioactive materials.	Yes
4.	Is the applicant a local, State or Federal government agency? The reviewer should contact the local, State or Federal government office to confirm that the applicant is a government entity.	No
5.	Does the application only involve the relocation of an existing licensee, or its mailing address, to another State? This includes new licenses created from existing licenses listing locations in multiple States, in preparation for transfer of licenses to States that will shortly sign an Agreement with the NRC.	L'é
6.	Is the application only the result of a licensee failing to submit a renewal application in a timely manner?	100

STEP 1, ITEM B - INITIAL SCREENING CONTINUED

The applicant is requesting certain radionuclides and quantities that are less than the Risk Significant Quantity (TBq) values in Worksheet B, below, as "highlighted" by the reviewer, or is currently subject to a security order or additional requirements for increased controls. If "Yes", there is no need to proceed further.



Worksheet B - Risk Significant Quantities

В.

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

negory 2 Quantities	, Inch ballety date	10 140. TIG G 1.5,	Jatogonzation of t	iddicactivo codico	o, riagaat 2000/
Radionuclide	Risk Significant Quantity (TBq¹)	Risk Significant Quantity (Ci ¹)	Radionuclide	Risk Significant Quantity (TBq¹)	Risk Significant Quantity (Ci¹)
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

The primary values are TBq. The curie (Ci) values are for informational purposes only. 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 were completed. 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 is less than the Risk Significant Quantity (TBq) for the radionuclide.	
Unity Rule-multiple radionuclides are requested and the sum of the ratios is less than 1.0, e.g., [(total activity for radionuclide A) \div (risk significant quantity for radionuclide A)] + [(total activity for radionuclide B) \div (risk significant quantity for radionuclide B)] < 1.0.	

Signature and Date for Step 1:

	ω	2.		₽.		ω	2.	1.	Α.	LIC	Lic Reg	BE1
SignedDate	OTHER	Correct Fee Paid. Application may be processed for: Amendment Renewal License	Fee Category and Amount:	LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered $/_/$)	Signed Calle of Musichten	COMMENTS	FEE ATTACHED Amount: Check No.:	APPLICATION ATTACHED Applicant/Licensee: DBI, INC. Received Date: 20080822 Docket No: 3037817 Control No.: 471916 License No.: 49-29301-01 Action Type: Amendment	REGION	LICENSE FEE TRANSMITTAL	License Fee Management Branch, ARM Status Code: 0 Status Code: 0 Fee Category: EXP. Date: 20180831 Fee Comments: Decom Fin Assur Reqd: N	BETWEEN: INFORMATION FROM LTS