

ACCEPTANCE REVIEW MEMO (ARM)

Licensee: Western Water Consultants, Inc. **License No.:** 49-26979-01
Docket No.: 030-31005 **Mail Control No.:** 471533
Type of Action: Amend **Date of Requested Action:** 10-05-07
Reviewer Assigned: Rachel Browder **ARM reviewer(s):** Browder

Response	Deficiencies Noted During Acceptance Review
N/A	<input checked="" 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: RSB **Date:** 10/18/07

<input type="checkbox"/> Yes	<input type="checkbox"/> No	Unrestricted release Group 2 or >: Transfer memo to FCDB within 10 days.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Decommissioning notification should be completed within 30 days.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Termination request < 90 days from date of expiration
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Expedite (medical emergency, no RSO, location of use/storage not on license, RAM in possession not on license, other). <i>Requested increase in Qty to Support Business Need</i>
<input type="checkbox"/> Yes	<input type="checkbox"/> No	TAR needed to complete action.

Branch Chief's and/or HP's Initials: RSB **Date:** 10/18/07

SUNSI Screening according to RIS 2005-31		
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Non-Publicly Available, Sensitive if <u>any</u> 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: <u>RSB Browder</u> Date: <u>10/18/07</u>		

Pre-Licensing Screening

Applicant Information:

Control No. 471533

Name: Western Water Consultants, Inc.	Type of Request: Amend Program Code(s): 03121
Location: WY	License No.: 49-26979-01 Docket No.: 03031005

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.

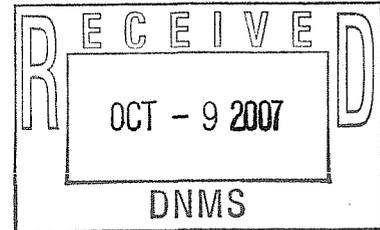
Calculations of the Total Activity or the Unity Rule are attached to document whether or not the screening criteria in Step 2 were also completed to evaluate the application. NOTE–If an amendment of an existing license is being requested, the calculations will include the previously authorized quantities 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:

RS Brewer 10/18/07
 License Reviewer and Date

October 5, 2007

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



RE: Amendment Request to License No. 49-26979-01

Dear Ms. Browder:

I am writing to request an amendment to License No. 49-26979-01 in order to increase the quantity of Cesium-137 and Americium-241 allowed by our current license. Our current license allows us to have 20 mCi of Cesium-137 and 100 mCi of Americium-241. I am requesting that the amounts be raised to 24 mCi of Cesium 137 and 120 mCi of Americium 241.

We are currently experiencing an increased demand for construction engineering services from our clients. To ensure the safety and quality of the earthen structures that are being built, we are in need of an additional 3400 Series Troxler portable nuclear density gauge to keep up with our rapidly expanding testing needs. Due to this increase, I am requesting that this amendment be expedited and approved at the earliest possible opportunity so that we may continue to provide quality service to our clients without delays.

If you have any questions, please contact me by phone at (307)-672-0761, or at (307)-752-6686. Thank you for your attention to this matter.

Sincerely,



Morgan R. Wardell
Radiation Safety Officer.

MRW/hjr

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No. 4 7 1 5 3 3

(FOR LFMS USE)
INFORMATION FROM LTS

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

: Program Code: 03121
: Status Code: 0
: Fee Category: 3P
: Exp. Date: 20150630
: Fee Comments:
: Decom Fin Assur Req'd: N
:.....

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: WESTERN WATER CONSULTANTS, INC.
Received Date: 20071009
Docket No.: 3031005
Control No.: 471533
License No.: 49-26979-01
Action Type: Amendment

2. FEE ATTACHED

Amount: _____
Check No.: /

3. COMMENTS

Signed Colleen Murachar
Date 10-11-07

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 _____