ACCEPTANCE REVIEW MEMO (ARM)

Licensee: Western Water Consultants, Inc. **License No.:** 49-26979-01

Docket No.: 030-31005 **Mail Control No.:** 471379

Type of Action: Amend **Date of Requested Action:** 05-15-07

Reviewer Assigned: Rachel **ARM reviewer(s):** Cook

Response	Deficiencies Noted During Acceptance Review
	[X] Open ended possession limits. Limit possession. Submit inventory. [ ] Submit copies of most recent leak test results. [ ] Add - delete IC license condition. Add IC paragraph in cover letter. [ ] Split license from cover letter. Add SUNSI marking to license. [ ] Ask the licensee if they have any type-amount of EPAct Material.
✓	I had a telecom with Mr. Morgan Wardell, and he indicated they had 2 Troxler gauges and would like to limit their license to this quantity.

Reviewer's Initials: RSBrowder **Date:** 6/28/07

☐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 Sr. HP's Initials: _____ **Date:** _____

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 Sr. HP's Initials: [illegible] **Date:** 5/31/07

Pre-Licensing Screening

Applicant Information: **Control No.** 471379

Name: Western Water Consultants, Inc.	Type of Request: Amend Program Code(s):
Location: WY	License No.: 49-26979-01 Docket No.: 030-31005

STEP 1–Radioactive Materials and Quantities Requested:

		Yes or No
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.		
A.	The request is from a new applicant.	N
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.	N
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	N

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.

	Yes , No, or Not Applicable (NA)
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).**	
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	
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.	

Signature and Date for Step 1:

5/31/07

License Reviewer and Date

WWC ENGINEERING
1849 Terra Avenue - Sheridan, WY 82801 - (307) 672-0761
Fax (307) 674-4265 - Email: infoshr@wwcengineering.com

May 15, 2007

RECEIVED
MAY 21 2007
DNMS

United States Nuclear Regulatory Commission, Region IV
Nuclear Material Licensing Branch
Texas Health Resources Tower
611 Ryan Plaza, Suite 400
Arlington, TX 76011-4005
Attention: Colleen Murnahan

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

Dear Ms. Murnahan:

This amendment request pertains to the change of Radiation Safety Officer for WWC Engineering. Our current Radiation Safety Officer, Nicholas L. Bateson, has left WWC Engineering to pursue other opportunities. I have been appointed as the new company Radiation Safety Officer and am requesting that our license be updated to show myself as the new RSO. I have completed the Troxler Nuclear Gauge Safety, HAZMAT, and Radiation Safety Officer Training courses. I have attached the certificates for each class. Please send all future information and correspondence to myself at the Sheridan office location.

WWC Engineering
1849 Terra Avenue
Sheridan, WY 82801
Attention: Morgan Wardell

Please call me at 307-672-0761 if you have any questions about this amendment request. Thank you for your assistance and I look forward to hearing from you.

Sincerely,

Morgan Wardell
Radiation Safety Officer

MRW/hjr
encl: as noted
K:\COMMON\Morgan\NRC License Update.doc

IL 47137 9

Certificate of Completion

This certifies that

Morgan Wardell

has successfully completed the

Nuclear Gauge Safety Training Class

conducted by the training department of

Troxler Electronic Laboratories, Inc.

Robert Wilson
Instructor

5/2/2007
Date

William F. Troxler, Jr.
President

TROXLER
Troxler Electronic Laboratories, Inc.
PO Box 12057 • 3008 Cornwallis Rd. • Research Triangle Park, NC 27709
Phone: (919) 549-8661 • Fax: (919) 549-0761 • Web site: www.troxlerlabs.com

Enrollment ID: **23044**

HAZMAT Certification

as required by U.S. DOT and IATA

This certifies that

Morgan Wardell

has been trained and tested in accordance with the U.S. Department of Transportation and International Air Transport Association (IATA) hazardous material requirements for general awareness/familiarization, function-specific, safety, and security awareness training as related to the transportation of nuclear gauges. A description of the training course materials is available from Troxler Electronic Laboratories, Inc.

5/2/2007	**5/2/2010**	**Robert Wilson**
Training Date	*Expiration Date*	*Instructor*

Troxler Electronic Laboratories, Inc.
PO Box 12057 • 3008 Cornwallis Rd. • Research Triangle Park, NC 27709
Phone: (919) 549-8661 • Fax: (919) 549-0761 • www.troxlerlabs.com

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Hazmat Employer Certification

Company: WWC Engineering
1849 Terra Ave.
Sheridan, WY 82801

Company Official: Thomas E. Trump *Date:* 5/4/07

Enrollment ID: **23044**

Certificate of Completion

This certifies that

Morgan Wardell

has successfully completed the

Radiation Safety Officer Class

conducted by the training department of

Troxler Electronic Laboratories, Inc.

Robert Wilson
Instructor

5/3/2007
Date

William F. Troxler, Jr.
President

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Phone: (919) 549-8661 • Fax: (919) 549-0761 • Web site: www.troxlerlabs.com

Enrollment ID: **23325**

HAZMAT Certification

as required by U.S. DOT and IATA

This certifies that

Morgan Wardell

has been trained and tested in accordance with the U.S. Department of Transportation and International Air Transport Association (IATA) hazardous material requirements for general awareness/familiarization, function-specific, safety, and security awareness training as related to the transportation of nuclear gauges. A description of the training course materials is available from Troxler Electronic Laboratories, Inc.

5/3/2007	5/3/2010	Robert Wilson
Training Date	*Expiration Date*	*Instructor*

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Hazmat Employer Certification

Company: WWC Engineering
1849 Terra Ave.
Sheridan, WY 82801

Company Official: Thomas E. Crump *Date:* 5/4/07

Enrollment ID: 23325

№ 471379

	:	(FOR LFMS USE)
	:	INFORMATION FROM LTS
BETWEEN:	:	----------
	:	
License Fee Management Branch, ARM	:	Program Code: 03121
and	:	Status Code: O
Regional Licensing Sections	:	Fee Category: 3P
	:	Exp. Date: 20150630
	:	Fee Comments: _____
	:	Decom Fin Assur Reqd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
   Applicant/Licensee: WESTERN WATER CONSULTANTS, INC.
   Received Date: 20070521
   Docket No: 3031005
   Control No.: 471379
   License No.: 49-26979-01
   Action Type: Amendment

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

3. COMMENTS

Signed Colleen Murnahan
Date 5-30-07

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 _____