

ACCEPTANCE REVIEW MEMO (ARM)

Licensee: Indo American Engineering, Inc. **License No.:** 49-27701-01
Docket No.: 030-35704 **Mail Control No.:** 471000
Type of Action: Amend **Date of Requested Action:** 06-07-06
Reviewer Assigned: Torres **ARM reviewer(s):** Cook

Response	Deficiencies Noted During Acceptance Review
6/7/06	1. <input checked="" type="checkbox"/> Open ended possession limits. <u>Limit possession.</u> <input checked="" type="checkbox"/> Inform licensee that we are limiting possession limits via <u>cover letter</u>
	2.

Reviewer's Initials: RTT **Date:** 6/14/06

Yes No Request for unrestricted use for Group 2 or higher category should be transferred by memo to FCDB within 10 days of receipt.
 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: RTT **Date:** 6/14/06

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: RTT **Date:** 6/14/06

Pre-Licensing Screening

Applicant Information:

Control No. 471000

Name: Indo American Engineering, Inc.	Type of Request: Amend Program Code(s): 03121
Location: WY	License No.: 49-27701-01 Docket No.: 030-35704

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.	<input checked="" type="checkbox"/>
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.	<input checked="" type="checkbox"/>
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	<input checked="" type="checkbox"/>

Table of Risk Significant Quantities

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

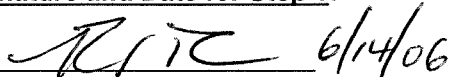
Radionuclide	Risk Significant Quantity (TBq ¹)	Risk Significant Quantity (Ci ¹)	Radionuclide	Risk Significant Quantity (TBq ¹)	Risk Significant Quantity (Ci ¹)
Am-241	0.6	16	Pm-147	400	11,000
Am-241/Be	0.6	16	Pu-238	0.6	16
Cf-252	0.2	5.4	Pu-239/Be	0.6	16
Cm-244	0.5	14	Ra-226 ²	0.4	11
Co-60	0.3	8.1	Se-75	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	<input checked="" type="checkbox"/> No
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.	<input checked="" type="checkbox"/> No

Signature and Date for Step 1:

 6/14/06
 License Reviewer and Date

SECTION 2 - NOT APPLICABLE ✓

STEP 2-Screening Criteria:

Control No. 471000

<p>Instructions for Step 2: Complete Step 2 for any application that yielded a "yes" response for any item in Step 1. The reviewer is expected to use safety information in the application as well as sources of information that are outside of the application. Document the review of each screening criteria below. For each criterion, provide a preliminary indication in the last column as to whether or not an additional evaluation may be needed to reasonably assure that the requested materials will be used as intended. Summarize the review below the table and sign, date, and place the completed step-sheet as the sensitive and non-publicly available OAR in ADAMS. If an additional evaluation of a potential security risk is needed, complete Step 3 (Item C) without delay.</p>		<p>Preliminary Indication-- Additional Evaluation in Step 3 Needed? (yes or no)</p>
<p>Refer to Initial Implementation Guidance (ML061080231) for each criterion, below.</p>	<p align="center">Review Notes</p>	
A. Request for Materials		
B. Former Licensee or Authorized User		
C. Ownership/Senior Management		
D. Radiation Safety Officer		
E. Authorized User		
F. Fee Payment		
G. Financial Assurance		
H. Deficiency correspondence		
I. Contacts to the applicant		
J. Public Web Sites		
K. Pre-Licensing Visit		
L. Security		

Summary:

Summarize the preliminary indicators and decide whether or not an additional evaluation is needed to provide reasonable assurance that materials will be used as intended. Provide rationale to support the decision. To request an additional evaluation of a potential security risk, complete Step 3 (Item C) without delay.

Signatures and Dates for Step 2:

_____ License Reviewer and Date _____ Supervisor and Date

SECTION 3 - NOT APPLICABLE ✓

STEP 3—Notify NRC Headquarters (NMSS/IMNS/MSIB-A):

Control No. 471000

Instructions for Step 3: Mark the type of notification below and attach a copy of the additional information, as appropriate. Place the completed step-sheet with attachments as the sensitive and non-publicly available OAR in ADAMS. Designated staff in IMNS will process the incoming email or TAR package. IMNS will reply to acknowledge receipt and indicate the action(s) and a proposed schedule to complete the action(s).

- A. Security Orders The cognizant supervisor sent an email to NMSS/IMNS/MSIB-A at Security_Orders@nrc.gov. The email requested MSIB-A to prepare Orders to accompany the specific license and provided the applicant's contact information. A copy of the email is attached.

- B. Increased Controls The cognizant supervisor sent an email to NMSS/IMNS/MSIB-A at Security_Orders@nrc.gov. The email requested MSIB-A to prepare Orders to accompany the specific license or requested MSIB-A to update the National Source Interim Inventory and provided a recently issued licensing action, e.g., to add or remove increased controls from a license or terminate a license. A copy of the email is attached.

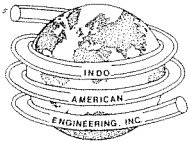
- C. Request for additional evaluation of the applicant As per NUREG-1556, Volume 20, Section 4.14, Technical Assistance Request—Materials Licensees, the cognizant supervisor sent a TAR package to NMSS/IMNS/MSIB-A after the screening criteria in Step 2 were evaluated. The license reviewer could not determine or has some doubt that radioactive material will be used as intended. The package included the TAR form and completed Step 2 worksheet. The package from an Agreement State supervisor was routed through the Regional State Agreements Officer as per Management Directive 5.7, "Technical Assistance for Agreement States," (revised November 19, 2004).

- Action Headquarters notified by e-mail Date: _____
- Action TAR provided to HQ Date: _____

Signatures and Dates for Step 3:

License Reviewer and Date

Supervisor and Date



INDO AMERICAN ENGINEERING, INC.

CONSULTING ENGINEERS & LAND SURVEYORS

P.O. BOX 1813 • ROCK SPRINGS, WYOMING 82902-1813 • TELE: 307-362-2680 • FAX 307-362-2682
EMAIL ADDRESS: contact@indoamengg.com WEBSITE: <http://www.indoamengg.com>

Ms. Colleen Murnahan
U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005

RECEIVED

June 7, 2006

JUN 12 2006

DNMS

Fax No. 817-860-8263 or 817-860-8188

License Number: 030-35704
Docket No.: 030-35704

Subject: Amendment to License

Dear Ms. Murnahan:

This is letter of request to amend our license for physical location, in according to Mr. Anthony D. Gaines site visit. Our license indicates our physical address as 2638 Commercial Way, Rock Springs, Wyoming that needs to be terminated. In support, we are hereby submitting Leak Test Reports on our Nuclear Gauges (1) Model 3440, Serial Number 21693; (2) Model 3440, Serial Number 22986 and (3) Model 3430, Serial Number 32250 that were performed by OSCS, 702 West 48th Ave., Unit H, Denver, CO 80216, Telephone: 303-292-2412.

At present our physical address is 649 North Front Street, Rock Springs, WY 82901

If you have any question, please do not hesitate to call us.

Thank you very much for your cooperation and consideration.

Sincerely:

Indo American Engineering, Inc
Dinesh P. Sheth, M.S., P.E.



"Your One Stop for Calibration & Service"

100 E. Highway 67
Keene, Texas 76059
(817) 648-0892
(817) 648-7560 Fax

702 West 48th Avenue Unit H
Denver Colorado 80216
(303) 292-2412
(303) 292-2409 Fax

Attention: Dinesh Sheth

Indo American Engineering
649 N Front Street
Rock Springs, WY 82902

Certificate Number: OSCSC544

Leak Test Certificate

Gauge Serial Number: 32250
Sample Procedure by: OSCS

Gauge Model: 3430
Sample Date: 2/2/06

Sealed Source Isotope:	Activity:	Removable Contamination:
Cs-137 (gamma)	8 mCi	< .005 μ Ci
Am-241 (alpha)	40 mCi	< .005 μ Ci

The analysis procedure was performed on 2/06/06 by Duane Hevly.

This portable nuclear gauge displays no removable contamination and may remain in active service.

The .001 μ Ci Cs-137 and Am-241 calibration check sources are NIST traceable.
The survey meter used to perform the analysis was calibrated on 3 January 2006.
Federal and Agreement State limits for removable contamination is 0.005 μ Ci (5.0×10^{-3} μ Ci).
Duane A. Hevly is authorized to analyze portable and fixed gauge leak test samples containing Co-60, Cs-137 and Am-241; State of Washington License Number: WN-I0335-1.

Notice: The RSO or owner of the gauge that fails the leak test analysis will be alerted immediately by telephone, e-mail and or fax to remove the gauge from active service.

Certified by:

Duane A. Hevly



"Your One Stop for Calibration & Service"

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(817) 648-7560 Fax

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Denver Colorado 80216
(303) 292-2412
(303) 292-2409 Fax

Attention: Dinesh Sheth

Indo American Engineering
649 N Front Street
Rock Springs, WY 82902

Certificate Number: OSCSC545

Leak Test Certificate

Gauge Serial Number: 22986
Sample Procedure by: OSCS

Gauge Model: 3440
Sample Date: 2/2/06

Sealed Source Isotope:	Activity:	Removable Contamination:
Cs-137 (gamma)	8 mCi	< .005 μ Ci
Am-241 (alpha)	40 mCi	< .005 μ Ci

The analysis procedure was performed on 2/06/06 by Duane Hevly.

This portable nuclear gauge displays no removable contamination and may remain in active service.

The .001 μ Ci Cs-137 and Am-241 calibration check sources are NIST traceable. The survey meter used to perform the analysis was calibrated on 3 January 2006. Federal and Agreement State limits for removable contamination is 0.005 μ Ci (5.0×10^{-3} μ Ci). Duane A. Hevly is authorized to analyze portable and fixed gauge leak test samples containing Co-60, Cs-137 and Am-241; State of Washington License Number: WN-I0335-1.

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Denver Colorado 80216
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Attention: Dinesh Sheth

Indo American Engineering
649 N Front Street
Rock Springs, WY 82902

Certificate Number: OSCSC546

Leak Test Certificate

Gauge Serial Number: 21693
Sample Procedure by: OSCS

Gauge Model: 3440
Sample Date: 2/2/06

Sealed Source Isotope:	Activity:	Removable Contamination:
Cs-137 (gamma)	8 mCi	< .005 μ Ci
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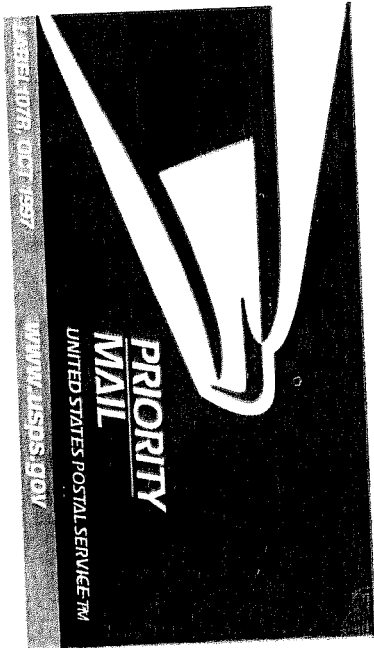
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Duane A. Hevly



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INDO AMERICAN ENGINEERING, INC.

P.O. BOX 1813
649 N. FRONT ST.
ROCK SPRINGS, WY 82902-1813

MS. COLLEEN MURNAHAN
U.S. NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-4005



INDO AMERICAN ENGINEERING, INC. CONSULTING ENGINEERS & LAND SURVEYORS

P.O. BOX 1813 • ROCK SPRINGS, WYOMING 82902-1813 • TELE: 307-362-2680 • FAX 307-362-2682

FACSIMILE TRANSMITTAL

Page 1 of 5

DATE: 6-7-06
 TIME: 12:15 P.M.
 NUMBER OF PAGES: 5 (INCLUDING COVER)
 DELIVER TO: Ektaan Murmuhan
 COMPANY: U.S. Nuclear Regulatory Commission
 FAX NUMBER: 817-860-8263 or 817-860-8196
 TELEPHONE NUMBER: 817-860-8252

FROM: Dinesh P. Sheth
 COMPANY: INDO AMERICAN ENGINEERING, INC.
 TELEPHONE NUMBER: 307-362-2680 FAX NUMBER: 307-362-2682
 EMAIL ADDRESS: contact@indoamengq.com
 WEBSITE: http://www.indoamengq.com
 PROJECT NUMBER: Amendment to License
 TRANSMITTED BY: Dinesh

MESSAGE:

IF YOU DID NOT RECEIVE ALL PAGES OR COPY IS UNCLEAR PLEASE PHONE 307-362-2680

649 NORTH FRONT STREET • ROCK SPRINGS, WYOMING 82901 • U.S.A.
 314 E. FLAMING GORGE WAY • GREEN RIVER, WY 82935 • U.S.A.
 217 BORA BAZAR • FORT BOMBAY 400001 • INDIA • TELE. 2613229
 48 ROSELEIGH RD. • SITTING BOURNE, KENT ME 101RS • U.K. • TELE. 5420663

471000



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EMAIL ADDRESS: contact@indoamengg.com WEBSITE: <http://www.indoamengg.com>

June 7, 2006

Ms. Colleen Murnahan
U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005

Fax No. 817-860-8263 or 817-860-8188

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At present our physical address is 649 North Front Street, Rock Springs, WY 82901

If you have any question, please do not hesitate to call us.

Thank you very much for your cooperation and consideration.

Sincerely:

Indo American Engineering, Inc
Dinesh P. Sheth, M.S., P.E.

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Attention: Dinesh Sheth

Indo American Engineering
649 N Front Street
Rock Springs, WY 82902

Certificate Number: OSCSC544

Leak Test Certificate

Gauge Serial Number: 32250
Sample Procedure by: OSCS

Gauge Model: 3430
Sample Date: 2/2/06

Sealed Source Isotope:	Activity:	Removable Contamination:
Cs-137 (gamma)	8 mCi	< .005µCi
Am-241 (alpha)	40 mCi	< .005µCi

The analysis procedure was performed on 2/06/06 by Duane Hevly.

This portable nuclear gauge displays no removable contamination and may remain in active service.

The .001 µCi Cs-137 and Am-241 calibration check sources are NIST traceable.
The survey meter used to perform the analysis was calibrated on 3 January 2006.
Federal and Agreement State limits for removable contamination is 0.005 µCi (5.0 x 10⁻³ µCi).
Duane A. Hevly is authorized to analyze portable and fixed gauge leak test samples containing Co-60, Cs-137 and Am-241; State of Washington License Number: WN-10335-1.

Notice: The RSO or owner of the gauge that fails the leak test analysis will be alerted immediately by telephone, e-mail and or fax to remove the gauge from active service.

Certified by:

Duane A. Hevly



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(303) 292-2409 Fax

Attention: Dinesh Sheth

Indo American Engineering
649 N Front Street
Rock Springs, WY 82902

Certificate Number: OSCSC545

Leak Test Certificate

Gauge Serial Number: 22986
Sample Procedure by: OSCS

Gauge Model: 3440
Sample Date: 2/2/06

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649 N Front Street
Rock Springs, WY 82902

Certificate Number: OSCSC546

Leak Test Certificate

Gauge Serial Number: 21693
Sample Procedure by: OSCS

Gauge Model: 3440
Sample Date: 2/2/06

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Certified by:


Duane A. Hevly

=== COVER PAGE ===

TO: _____

FROM: _____

FAX: 3073622682

TEL:

COMMENT:

