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Shaw® Shaw Environmental & Infrastructure, Inc.

*Postmarked
10-23-2007
cm*

A World of **Solutions**

October 18, 2007

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

RECEIVED

OCT 29 2007

DNMS

Gentlemen,

This letter with attachments is a request to terminate the Shaw Environmental & Infrastructure, Inc. Radioactive Material License 05-29228-01. Please terminate this license effective immediately.

If you have any questions regarding this request or require additional information please contact Claire Doherty at (617) 589-6750.

Sincerely,

William Winkler

Executive Vice President
Shaw Environmental & Infrastructure, Inc.

Attachments: NRC Form 314

CC: Michael Fitzgerald
Steven Adams, CHP
Dave Hillyer
Barbara Reider, CHP
Frank Danyo, Esq.

CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS
Shaw Environmental & Infrastructure, Inc.
9201 East Dry Creek Road
Centennial, Colorado 80112

LICENSE NUMBER: **05-29228-01**
DOCKET NUMBER: **03-37196**
LICENSE EXPIRATION DATE: **June 30, 2016**

This license has expired. **A. LICENSE STATUS (Check the appropriate box)**
This license has not yet expired; please terminate it.

B. DISPOSAL OF RADIOACTIVE MATERIAL

~~(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)~~

- The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:
- 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
 - 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
 - a. Transfer of radioactive materials to the licensee listed below:
Naval Radioactive Materials Permit No. 04-00681-B1NP
 - b. Disposal of radioactive materials:
 - 1. Directly by the licensee:
 - 2. By licensed disposal site:
 - 3. By waste contractor:
 - c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

C. SURVEYS PERFORMED AND REPORTED

- 1. A radiation survey was conducted by the licensee. The survey confirms:
 - a. the absence of licensed radioactive materials
 - b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- 2. A copy of the radiation survey results:
 - a. is attached; or b. is not attached (Provide explanation); c. was forwarded to NRC on: _____ Date
- 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
 - a. The results of the latest leak test are attached; and/or
 - b. No leaking sources have ever been identified.

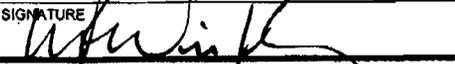
The person to be contacted regarding the information provided on this form:

NAME	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
Claire Doherty	Health Physicist	617-589-6750	claire.doherty@shawgrp.com

Mail all future correspondence regarding this license to:
Claire Doherty, 100 Technology Center Drive, Stoughton, MA 02072

C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE	SIGNATURE	DATE
William Winkler, Executive VP		10-22-07

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

204
Equipment Number

SK VAC FUMIG
Equipment Type

N/A
Current Hours



Equipment Services Group

8/15/06
Current Date

114839
Project Number

(Yes/No) No
Hazardous Site?

CERTIFICATION OF DECONTAMINATION

SPECIFIC AREAS CLEANED

AXLES _____ FRAME _____ BODY/CAB _____
BUCKET/BLADE _____ **N/A** _____ BELLY PANS _____
TIRES, WHEELS OR TRACKS _____

OTHER AREAS CLEANED INTAKE + DISCHARGE, DRIP PANS, HOSES, TANK,
TIRES, LABEL WHEELS, CAB

CONTAMINATES CONTACTED ON SITE	<u>TRITIUM < 100,000 p.c./L</u>		
DECONTAMINATION SOLUTION(S) USED	<u>N/A</u>		
DECONTAMINATION PROCESS (DESCRIBE)	<u>PRESSURE WASH</u>		
SAMPLING LOCATIONS, (IF REQUIRED)	<u>SEE ATTACHMENT</u>		
ANALYTICAL RESULTS (IF REQUIRED)	<u>SEE ATTACHMENT</u>		
<u>SAMPLE #</u>	<u>DATE SAMPLED</u>	<u>RESULTS</u>	<u>ACTION LEVEL</u>

OK TO DEMOBE OFF SITE ? YES NO

ADDITIONAL COMMENTS:

BILL HODGES

SUPERVISOR SIGNATURE: [Signature]

EMPLOYEE NUMBER: 440134

One Copy Of Certification Should Accompany The Equipment To Destination, One Copy For Files.
One Copy Of Certification Should Be Forward Immediately To The Original Maintenance Coordinator.

208
Equipment Number

SK VAC TANCIC
Equipment Type

NA
Current Hours



Equipment Services Group

8/15/06
Current Date

114839
Project Number

(Yes/No) No
Hazardous Site?

CERTIFICATION OF DECONTAMINATION

SPECIFIC AREAS CLEANED

AXLES	FRAME	BODY/CAB
BUCKET/BLADE	NA	BELLY PANS
TIRES, WHEELS OR TRACKS		

OTHER AREAS CLEANED INTAKE + DISCHARGE, DAIR PANS, HOSES
TANK, TIRES, CAB, WHEEL WELLS

CONTAMINATES CONTACTED ON SITE	TRITIUM < 100,000 pCi/L		
DECONTAMINATION SOLUTION(S) USED	NA		
DECONTAMINATION PROCESS (DESCRIBE)	PRESSURE WASH		
SAMPLING LOCATIONS, (IF REQUIRED)	SEE ATTACHMENT		
ANALYTICAL RESULTS (IF REQUIRED)	SEE ATTACHMENT		
SAMPLE #	DATE SAMPLED	RESULTS	ACTION LEVEL 1000 dpm / 100/cph

OK TO DEMOBE OFF SITE? YES NO

ADDITIONAL COMMENTS:

BILL HODGES

SUPERVISOR SIGNATURE

EMPLOYEE NUMBER: 440134

One Copy Of Certification Should Accompany The Equipment To Destination, One Copy For Files.
One Copy Of Certification Should Be Faxed Immediately To The Regional Maintenance Coordinator

Las Pulgas Landfill - Tritium-Impacted Leachate Transfer

Survey Form

Surveyor: <u>BENNIE COLE</u>	Date: <u>8-15-06</u>
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Beta-Gamma Survey Instrument	Dose Rate Survey Instrument
Scaler Model: <u>Triathler</u>	Detector: <u>Lucium 19</u>
Serial No.: <u>2650636</u>	Serial No.: <u>138482</u>
Probe No.: <u>N/A</u>	Calibration Date: <u>12-21-05 / Due 12-21-06</u>
Serial No.: ↓ Eff = <u>44.9%</u> Bkg = <u>47</u>	

ID <i>Tanker Truck</i>	Transferable Readings		Dose Rate Information		
	Location	Beta-Gamma DPM/100 cm ²	Location	@ contact (mrem/hr)	@ 1 meter (mrem/hr)
<u>9B68243</u>	<u>Front left Tire</u>	<u>74</u>	<u>Cab</u>	<u><0.01 mR/hr</u>	<u>N/A</u>
	<u>Rear left Tire</u>	<u>68</u>	<u>Leftside of Tank</u>		
	<u>Rear Right tire</u>	<u>35</u>	<u>Rear of Tank</u>		
	<u>Front Right Tire</u>	<u>45</u>	<u>Rightside of Tank</u>		
	<u>Cab Floor</u>	<u>29</u>	<u>Under Tank</u>		
	<u>Cab Dashboard</u>	<u>56</u>	<u>Top of Tank</u>		
	<u>Leftside of Tank</u>	<u>53</u>	<u>Front of Tank</u>		
	<u>Rear of Tank</u>	<u>33</u>	<u>N/A</u>	<u>N/A</u>	
	<u>Rightside of Tank</u>	<u>80</u>			
	<u>Under Tank</u>	<u>30</u>			
	<u>Drip Pan</u>	<u>3</u>			
	<u>Inlet Valve</u>	<u>30</u>			
	<u>Outlet Valve</u>	<u>94</u>			
	<u>Drain plug</u>	<u>60</u>			
	<u>Inside Tank</u>	<u>37</u>			
	<u>Inside Tank</u>	<u>115</u>			
	<u>Inside Tank</u>	<u>49</u>			
	<u>Inside Tank</u>	<u>90</u>			
	<u>Inside Tank</u>	<u>8</u>			
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>			

Remarks:

6712151
Equipment Number

VAC PUMPER 3K GAL
Equipment Type

N/A
Current Hours



Equipment Services Group

8/22/06
Current Date

114839
Project Number

(Yes/No) No
Hazardous Site?

CERTIFICATION OF DECONTAMINATION

SPECIFIC AREAS CLEANED

AXLES _____	FRAME _____	BODY/CAB _____
BUCKET / BLADE _____	NA	BELLY PANS _____
TIRES, WHEELS OR TRACKS _____		

OTHER AREAS CLEANED

CAB, TANK, DRIP PAN, HOSES, HATCHES VALVES,
TIRES, WHEEL WELLS, BED

CONTAMINATES CONTACTED ON SITE	TRITIUM < 100,000 pCi/L		
DECONTAMINATION SOLUTION(S) USED	NA		
DECONTAMINATION PROCESS (DESCRIBE)	PRESSURE WASH		
SAMPLING LOCATIONS, (IF REQUIRED)	SEE ATTACHMENT		
ANALYTICAL RESULTS (IF REQUIRED)	SEE ATTACHMENT		
<u>SAMPLE #</u>	<u>DATE SAMPLED</u>	<u>RESULTS</u>	<u>ACTION LEVEL</u>

OK TO DEMOBE OFF SITE? YES NO

ADDITIONAL COMMENTS:

BILL HODGES

SUPERVISOR SIGNATURE: _____ EMPLOYEE NUMBER: 440134

One Copy Of Certification Should Accompany The Equipment To Destination, One Copy For Files.
One Copy Of Certification Should Be Forwarded Immediately To The Original Maintenance Coordinator.

Las Pulgas Landfill - Tritium-Impacted Leachate Transfer

Survey Form

Surveyor: BEUNIE COLE Date: 8-22-06

Beta-Gamma Survey Instrument	Dose Rate Survey Instrument
Scaler Model: <u>Fricather</u>	Detector: <u>³H/GM Ludlum 19</u>
Serial No.: <u>2050636</u>	Serial No.: <u>138482</u>
Probe No.: <u>N/A</u>	Calibration Date: <u>12/21/05</u> <small>Sec 12/21/06</small>
Serial No.: <u>N/A</u>	
Eff = <u>45.1%</u> Bkg = <u>57</u>	<u>Tanker Truck</u>

ID Tag #	Transferable Readings		Dose Rate Information		
	Location	Beta-Gamma DPM/100 cm ²	Location	@ contact (mrem/hr)	@ 1 meter (mrem/hr)
<u>GT12151</u>	<u>Front Left Tire</u>	<u>117</u>	<u>Cab</u>	<u><0.01 mrem/hr</u>	<u>N/A</u>
	<u>Rear Left Tire</u>	<u>32</u>	<u>Leftside of Tank</u>		
	<u>Rear Right Tire</u>	<u>30</u>	<u>Rear of Tank</u>		
	<u>Front Right Tire</u>	<u>-2</u>	<u>Rightside of Tank</u>		
	<u>Cab Floor</u>	<u>59</u>	<u>Front of Tank</u>		
	<u>Dashboard</u>	<u>66</u>	<u>Under Tank</u>		
	<u>Leftside Tank</u>	<u>21</u>	<u>N/A</u>	<u>N/A</u>	
	<u>Rear of Tank</u>	<u>20</u>			
	<u>Rightside of Tank</u>	<u>18</u>			
	<u>Under Tank</u>	<u>-10</u>			
	<u>Drip Pan</u>	<u>234</u>			
	<u>Inlet</u>	<u>180</u>			
	<u>Outlet</u>	<u>48</u>			
	<u>Drain plug</u>	<u>3</u>			
	<u>Inside Tank</u>	<u>29</u>			
	<u>Inside Tank</u>	<u>13</u>			
	<u>Inside Tank</u>	<u>35</u>			
	<u>Inside Tank</u>	<u>13</u>			
	<u>Hose</u>	<u>34</u>			
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>			

Remarks:

Page: 1 of 1

Surveyor's Initials: BCD

NOV 26 2007

DATE

This is to acknowledge the receipt of your letter/application dated 10-18-07, and to inform you that the initial processing, which includes an administrative review, has been performed.

There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card:

The action you requested is normally processed within 90 days.

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 471551.
When calling to inquire about this action, please refer to this mail control number.
You may call me at 817-860-8103.

Sincerely,

Colleen Murnahan

Licensing Assistant

ACCEPTANCE REVIEW MEMO (ARM)

Licensee: Shaw Environmental & Infrastructure, Inc.

License No.: 05-29228-01

Docket No.: 030-37196

Mail Control No.: 471551

Type of Action: Term

Date of Requested Action: 10-23-07

Reviewer Assigned:

ARM reviewer(s): Cook

Response	Deficiencies Noted During Acceptance Review
	<ul style="list-style-type: none"> [] 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.

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 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: QAC

Date: 11/20/07

Pre-Licensing Screening

Applicant Information:

Control No. 471551

Name: Shaw Environmental & Infrastructure, Inc.	Type of Request: Term Program Code(s): 03234
Location: CO	License No.: 05-29228-01 Docket No.: 030-37196

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.	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.

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	
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:

James L. ...
 License Reviewer and Date 4/20/07

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

: (FOR LFMS USE)
: INFORMATION FROM LTS
: -----
:
: Program Code: 03234
: Status Code: 0
: Fee Category: 4B 3N 1D 2C
: Exp. Date: 20160630
: Fee Comments:
: Decom Fin Assur Req: Y
: ::::::::::::::::::::::::::::::::::::::

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: SHAW ENVIRONMENTAL &
Received Date: 20071023
Docket No: 3037196
Control No.: 471551
License No.: 05-29228-01
Action Type: Termination

2. FEE ATTACHED

Amount: _____
Check No.: /

3. COMMENTS

Signed Colleen Murnahan
Date 11-02-07

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 _____