



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF CRIMINAL ENFORCEMENT, FORENSICS AND TRAINING
NATIONAL ENFORCEMENT INVESTIGATIONS CENTER
P.O. BOX 25227, DENVER FEDERAL CENTER
DENVER, COLORADO 80225

RECEIVED
AUG 12 2014

August 11, 2014

DNMS

Material Radiation Protection Section
U.S. Nuclear Regulatory Commission, Region IV
1600 E. Lamar Boulevard
Arlington, TX 76011-4511

Re: License 05-14892-01, Docket 030-08219

With this letter, please accept a Certificate of Disposition of Materials, NRC Form 314. With the expiration of our Materials License on August 31, 2014, the National Enforcement Investigations Center (NEIC) wishes to terminate the license. NEIC no longer requires radioactive calibration standards and any in our possession have been disposed of by the proper authorities.

NEIC maintains possession of seven exempt "button" check sources and five Ni-63 electron capture detectors (ECDs) licensed by Agilent. A copy of our current physical inventory, the Agilent license, and recent leak test for the Ni-63 sealed sources are provided with this letter.

We are aware that the termination of our license will not relieve NEIC from conducting leak tests for the ECDs or other protection requirements for our employees such as our personnel dosimetry program.

Please contact Jamie Headley (303-462-9036 or headley.jamie@epa.gov) with requests for additional information.

Sincerely,

Tom Norris
Deputy Director

Attachments

- 1- Certificate of Disposition of Materials
- 2- Uniform Low-Level Radioactive Waste Manifest E8545
- 3- Uniform Low-Level Radioactive Waste Manifest E8605
- 4- Radiation Survey Results with instrument calibration certificate
- 5- Physical Inventory
- 6- Agilent Materials License
- 7- Ni-63 ECD Leak Test Results

PUBLIC
 Immediate Release
 Normal Release

NON-PUBLIC
 A.3 Sensitive-Security Related
 A.7 Sensitive Internal
 Other: _____

viewer: Jamie Date: 8/29/14



**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 FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@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
U.S. Environmental Protection Agency
National Enforcement Investigations Center
P.O. Box 25227, Building 25 Denver Federal Center
Denver, CO 80225-0227

LICENSE NUMBER 05-14892-01	DOCKET NUMBER 030-08219
LICENSE EXPIRATION DATE August 31, 2014	

A. LICENSE STATUS (Check the appropriate box)

- This license has expired. 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:

- b. Disposal of radioactive materials:

1. Directly by the licensee:

2. By licensed disposal site:

3. By waste contractor:

Thomas Gray & Associates, Inc. 1205 W. Barkley Ave, Orange, CA 92868, (714) 997-8090. See attached manifests.

- 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); or 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
Jamie Headley	Radiation Safety Officer	(303) 462-9036	headley.jamie@epa.gov

Mail all future correspondence regarding this license to:

U.S. Environmental Protection Agency, National Enforcement Investigations Center
P.O. Box 25227, Building 25 Denver Federal Center, Denver, CO 80225-0227

C. CERTIFYING OFFICIAL
I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE	SIGNATURE	DATE
Tom Norris, NEIC Deputy Director		8/11/2014

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.

NRC FORM 540 U.S. NUCLEAR REGULATORY COMMISSION
 EXPIRES 8/31/2013
**UNIFORM LOW-LEVEL RADIOACTIVE
 WASTE MANIFEST**
 SHIPPING PAPER

5. SHIPPER - NAME AND FACILITY
 US EPA Denver Federal Building
 Building 25, PO 25227
 Denver, CO 80225

SHIPPER EPA I.D. NUMBER
EPA-11-1
 COLLECTOR
 PROCESSOR
 GENERATOR TYPE (Special)

1. EMERGENCY TELEPHONE NUMBER (Include Area Code)
 M-F 8am-5pm (209) 667-1102 / After Hours (209) 678-6782
 ORGANIZATION
 Thomas Gray & Associates, Inc.

USER PERMIT NUMBER | SHIPMENT NUMBER
 n/a |
 CONTACT Richard Ross 303-462-9105 EXT
 Steve Fletcher

TELEPHONE NUMBER
 303-312-6312

2. IS THIS AN "EXCLUSIVE USE" SHIPMENT?
 YES
 NO
 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST
 -----> 1 metal dm

6. CARRIER - Name and Address
 Thomas Gray & Associates, Inc.
 1205 W. Barkley Ave
 Orange, CA 92868
 CONTACT:
 Rich Gallego

EPA I.D. NUMBER
 CAD 066 151 6
 SHIPPING DATE
 10-12-11
 TELEPHONE NUMBER
 714-997-809

4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT?
 If "Yes" provide Manifest Number -----> No
 EPA MANIFEST NUMBER

SIGNATURE - Authorized carrier acknowledging waste receipt
[Signature]
 DATE
 10-12-11

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANS. INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL NUCLEONIDES
UN2910 Radioactive material, excepted package, limited quantity of material, 7 Fissile Excepted	n/a	n/a	solid, liq/oxides	Po210, Th232, Pu239, U235, Sr90, Pb210, Ra226/Ra228

FOR CONSIGNEE USE ONLY
 email: Energy Solutions
 fax:
 mobile:
 WASTE RECEIPT ACKNOWLEDGEMENT
 F/ (Fissile)
 EM (Exempt Material)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 OFFICE OF CRIMINAL ENFORCEMENT, FORENSICS AND TRAINING
 NATIONAL ENFORCEMENT INVESTIGATIONS CENTER
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We are aware that the termination of our license will not relieve NEIC from conducting leak tests for the ECDs or other protection requirements for our employees such as our personnel dosimetry program.

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Sincerely,

Tom Norris
 Deputy Director

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PUBLIC
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viewer: Jane Date: 8/29/14



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LICENSEE NAME AND ADDRESS
U.S. Environmental Protection Agency
National Enforcement Investigations Center
P.O. Box 25227, Building 25 Denver Federal Center
Denver, CO 80225-0227

LICENSE NUMBER 05-14892-01	DOCKET NUMBER 030-08219
LICENSE EXPIRATION DATE August 31, 2014	

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 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:

b. Disposal of radioactive materials:

1. Directly by the licensee:

2. By licensed disposal site:

3. By waste contractor:

Thomas Gray & Associates, Inc. 1205 W. Barkley Ave, Orange, CA 92868, (714) 997-8090. See attached manifests.

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2. A copy of the radiation survey results:

a. is attached; or b. is not attached (Provide explanation); or 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
Jamie Headley	Radiation Safety Officer	(303) 462-9036	headley.jamie@epa.gov

Mail all future correspondence regarding this license to:

U.S. Environmental Protection Agency, National Enforcement Investigations Center
P.O. Box 25227, Building 25 Denver Federal Center, Denver, CO 80225-0227

C. CERTIFYING OFFICIAL

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

PRINTED NAME AND TITLE	SIGNATURE	DATE
Tom Norris, NEIC Deputy Director		8/11/2014

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.



3106 S. FAITH HOME ROAD
TURLOCK, CALIFORNIA 95380
PHONE 209-667-1102
FAX 209-667-1583

ENERGY SOLUTIONS CERTIFICATION

This is to certify that the radioactive material itemized on NRC Form # E8545 is as described and contains no other unidentified radionuclides.

I, the Generator, represent and warrant that waste material described on this NRC Form does not contain materials or contaminants that would also place it in the categories of (a) "Infectious Waste," (b) "Sharps", (c) "EPA/RCRA Hazardous Waste" and does not contain any body tissue or body parts from human or other animals.

If non-compliant waste, as described, is present, the waste will be returned to the Generator. The Generator will then be billed for return freight and the labor to repackage the waste.

A portion of the funds previously paid, which represent disposal costs, will be credited.

US EPA NEIC

Generator

 *lee*

Signed

Date



Title



NRC FORM 541
EXPIRES 8/31/2013

UNIFORM LOW-LEVEL RADIOACTIVE
WASTE MANIFEST

CONTAINER AND WASTE DESCRIPTION

1. MANIFEST TOTALS

NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME (m ³ /ft ³)	NET WASTE WEIGHT (kg/lbs)	SPECIAL NUCLEAR MATERIAL (grams)			TOTAL (g)
			U233	U235	Pu	
1	0.0379 1.34	5.9 13	0.00E+00	0.00E+00	1.61E-07 1 container	1.61E-07
ACTIVITY (MBq/mCi)						
ALL NUCLIDES		TRITIUM	C14	Tc-99	I129	SOURCE (kg)
0.13396 MBq 0.00362 mCi		0	0	0	0	0.00028976

2. MANIFEST NUMBER
E8545

3. PAGE 1 OF 1 PAGE(S)

4. SHIPPER NAME
US EPA NEIC

SHIPPER ID NUMBER
EPA-11-1

5. CONTAINER ID NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (SEE NOTE 1)	7. VOLUME (m ³ /ft ³)	8. WASTE & CONTAINER WEIGHT (kg/lbs)	9. SURFACE RADIATION LEVEL		10. SURFACE CONTAMINATION MBq / 100 cm ²		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION	15. RADIOLOGICAL DESC	
				mR/hr	X	ALPHA	BETA- GAMMA	WASTE DESCRIPTOR (SEE NOTE 2)	12. APPROX. WASTE VOLUME(S) IN CONTAINER (m ³ /ft ³)	13. SORBENT, SOLIDIFICATION, STABILIZATION MEDIA (SEE NOTE 3)		WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES (MBq) AND CONTAINER CONTAINER TOTAL ACT
E8545-D01	4	0.0379 1.34 0.0	5.9 13.0	0.04 0.0004	mR/hr mSv/hr	<1.67e-6	<1.67e-5	25.39	0.0379	100	glass vials, bottles, pitchblend planchettes, yellowcake river sediment, wires	NP	Po210 0.00003 Th232 0.00040 Pu239 0.0003 U232 0.1161 U238 0.0022 Th230 0.0088 Nat U 0.0055 Sr90 0.00001953 Ra226/228 0.00018 Pb210 0.00011 Total 0.13395953
		0.0			mR/hr								
		0.0			mSv/hr								
		0.0			mR/hr								
		0.0			mSv/hr								
		0.0			mR/hr								
		0.0			mSv/hr								
		0.0			mR/hr								
		0.0			mSv/hr								
		0.0			mR/hr								
		0.0			mSv/hr								
		0.0			mR/hr								
		0.0			mSv/hr								
		0.0			mR/hr								
		0.0			mSv/hr								

NOTE 1: Container Description Code. For containers/
waste requiring disposal in approved structural overpacks
the numerical code must be followed by "-OP".

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other. Describe in item 6, or additional page
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

NOTE 2: Waste Descriptor Codes: (Choose up to three which predominate by volume)

20. Charcoal	30. Cation Ion-Exchange Media	39. Compactible Trash
21. Incinerator Ash	31. Anion Ion-Exchange Media	40. Noncompactible Trash
22. Soil	32. Mixed Bed Ion-Exchange Media	41. Animal Carcass
23. Gas	33. Contaminated Equipment	42. Biological Material (except animal carcass)
24. Oil	34. Organic Liquid (except oil)	43. Activated Material
25. Aqueous Liquid	35. Glassware or Labware	59. Other. Describe in item 11, or additional page
26. Filter Media	36. Sealed source/device	
27. Mechanical Filter	37. Paint or Plating	
28. EPA or State Hazardous	38. Evaporator Bottoms/Sludge/ Concentrates	
29. Demolition Rubble		

NOTE 3: For solidification media that meet disposal site structural stability requirements, the numerical
code must be followed by "-S". For all solidification media, the vendor (manufacturer) and brand name
must also be identified in item 13. Code 100 = NONE REQUIRED.

Sorbition		Solidification
60. Speedi Dri	66. Florco	73. Dicapert HP500
61. Celetom	67. Florco X	74. Petroset
62. Floor Dry/ Superfine	68. Solid A Sorb	75. Petroset II
63. Hi Dri	69. Chemsil 30	76. Aquaset
64. Safe T Sorb	70. Chemsil 50	77. Aquaset II
65. Safe N Lin	71. Chemsil 3030	89. Other. Describe in item 13 or additional page
	72. Dicapert HP200	90. Cement
		91. Concrete (enc)
		92. Bitumen
		93. Vinyl Chloride
		94. Vinyl Ether St
		99. Other, Descri

NRC FORM 540 U.S. NUCLEAR REGULATORY COMMISSION
EXPIRES 8/31/2013

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST
SHIPPING PAPER

5. SHIPPER - NAME AND FACILITY
US EPA Denver Federal Building
Building 25, PO 25227
Denver, CO 80225

SHIPPER EPA I.D. NUMBER: EPA-12-1
COLLECTOR: _____
PROCESSOR: _____
GENERATOR TYPE (Specify): _____

7. NRC FORM 540 AND 540A PAGE 1 OF 1 PAGE
NRC FORM 541 AND 541A PAGE 1 OF 1 PAGE
NRC FORM 542 AND 542A PAGE 1 OF 1 PAGE
ADDITIONAL INFORMATION PAGE 1 OF _____

9. CONSIGNEE - Name and Facility Address
NSSI Recovery Services
5711 Etheridge
Houston, TX 77087
SIGNATURE: *[Signature]*

1. EMERGENCY TELEPHONE NUMBER (Include Area Code)
M-F 8am-5pm (209) 667-1102 / After Hours (209) 678-6782

ORGANIZATION
Thomas Gray & Associates, Inc.

USER PERMIT NUMBER: n/a SHIPMENT NUMBER: _____

CONTACT: Richard Ross 303-462-9105 EXT Steve Fletcher

6. CARRIER - Name and Address
Thomas Gray & Associates, Inc.
1205 W. Barkley Ave
Orange, CA 92868

EPA I.D. NUMBER: CAD 066 151 648
SHIPPING DATE: 03/22/12
TELEPHONE NUMBER: 714-997-8090
DATE: 3-20-12
SIGNATURE: *[Signature]*

2. IS THIS AN "EXCLUSIVE USE" SHIPMENT?
 YES
 NO

3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST
-----> 1 poly dm

4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT?
If "Yes" provide Manifest Number -----> YES 001379904GBF

EPA MANIFEST NUMBER: 001379904GBF

CONTACT: Rich Gallego
SIGNATURE: *[Signature]*

10. CERTIFICATION This is to certify that the here marked, and labeled and are in proper condition for transportation. This also certifies that the materials are package disposal as described in accordance with the requirements of 1

AUTHORIZED SIGNATURE: *[Signature]*

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)

12. DOT LABEL "RADIOACTIVE"

13. TRANS. INDEX

14. PHYSICAL AND CHEMICAL FORM

15. INDIVIDUAL RADIONUCLIDES

16. TOTAL PACKAGE ACTIVITY (mCi)

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANS. INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES	16. TOTAL PACKAGE ACTIVITY (mCi)
UN1993 Waste Flammable Liquid, n.o.s., (toluene), 3, PG II DOT Non Regulated Material	n/a	n/a	liq/scint vials	C14, H3	0.05181 mCi (0.0014) mCi
					0.0 mCi
					0.0 mCi
					0.0 mCi
					0.0 mCi
					0.0 mCi
					0.0 mCi
					0.0 mCi
					0.0 mCi
					0.0 mCi
					0.0 mCi
					0.0 mCi
					0.0 mCi
					0.0 mCi
					0.0 mCi

FOR CONSIGNEE USE ONLY

email: _____
fax: _____
mobile: _____

This is to inform the generator of the waste shipped on this manifest, that NSSI has the appropriate permits for, and will accept, the waste the generator is shipping.

WASTE RECEIPT ACKNOWLEDGEMENT PREFERENCE (please check)
 FAX
 EMAIL

NRC FORM 541

EXPIRES 8/31/2013

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

CONTAINER AND WASTE DESCRIPTION

NSSI

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			U233	U235	Pu	
1	0.019	9.1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	0.67	20				
ACTIVITY (MBq/mCi)						
ALL NUCLIDES		TRITIUM	C14	Tc-99	I129	SOURCE (kg)
0.05180659303 MBq		0.014807	0.037	0	0	0
0.00140017819 mCi		0.0004	0.001			

2. MANIFEST NUMBER E8605
3. PAGE 1 OF 1 PAGE(S)
4. SHIPPER NAME US EPA NEIC
SHIPPER ID NUMBER EPA-12-1

5. CONTAINER ID NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (SEE NOTE 1)	7. VOLUME (m ³ /ft ³)	8. WASTE & CONTAINER WEIGHT (kg/lbs)	9. SURFACE RADIATION LEVEL		10. SURFACE CONTAMINATION MBq / 100 cm ²		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION	15. RADIOLOGICAL DESCRIPTION	
				mR/hr	X	ALPHA	BETA-GAMMA	WASTE DESCRIPTOR (SEE NOTE 2)	APPROX. WASTE VOLUME(S) IN CONTAINER (m ³ /ft ³)	SORBENT, SOLIDIFICATION, STABILIZATION MEDIA (SEE NOTE 3)		WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES (MBq) AND CONTAINER TOTAL ACT
E8605-D01	3	0.019	9.07	0.04	mR/hr	<1.67e-6	<1.67e-5	28	0.019	100	scintillation vials, standards	NP	C14 0.03
		0.0	20.0	0.0004	mSv/hr								H3 0.014806593C
		0.0			mR/hr								Total 0.051806593C
		0.0			mSv/hr								
		0.0			mR/hr								
		0.0			mSv/hr								
		0.0			mR/hr								
		0.0			mSv/hr								
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22. Soil	32. Mixed Bed Ion-Exchange Media	41. Animal Carcass
23. Gas	33. Contaminated Equipment	42. Biological Material (except animal carcass)
24. Oil	34. Organic Liquid (except oil)	43. Activated Material
25. Aqueous Liquid	35. Glassware or Labware	59. Other. Describe in item 11, or additional page
26. Filter Media	36. Sealed source/device	
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Sorbition	60. Speedi Dri	66. Florco	73. Dicapril HP500	Solidification
61. Celetom	61. Celetom	67. Florco X	74. Petrosel	90. Cement
62. Floor Dry/ Superfine	62. Floor Dry/ Superfine	68. Solid A Sorb	75. Petrosel II	91. Concrete (enca)
63. Hi Dri	63. Hi Dri	69. Chemsil 30	76. Aquaset	92. Bitumen
64. Safe T Sorb	64. Safe T Sorb	70. Chemsil 50	77. Aquaset II	93. Vinyl Chloride
65. Safe N Dri	65. Safe N Dri	71. Chemsil 3030	78. Aquaset III	94. Vinyl Ether Sty
		72. Dicapril HP200	89. Other. Describe in item 13 or additional page	99. Other. Describe or additional page

July 26, 2013

Ben Burns and Jamie Headley

Instrument: Ludlum Model 3 SN 142962 (See Cal Cert)

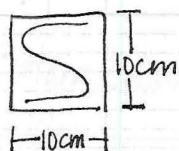
Slow Read 1 cm below probe with cotton swabs

Background: CPM = 50

DPM = 56

0.025 mR/hr

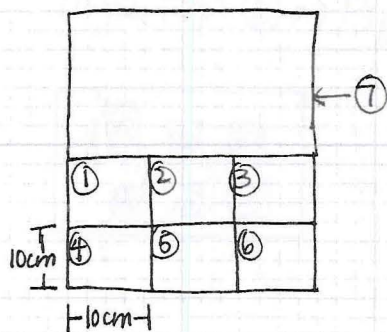
Wipe Test - Swipe



Room 1C425/445

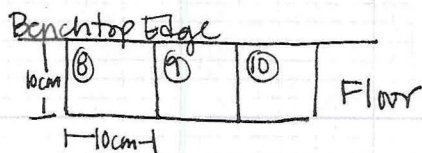
Double Cabinets (A) on Figure

Plan View (not to scale)



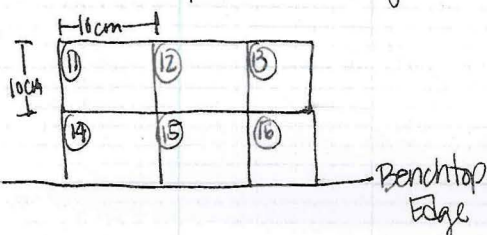
- ① @ Background 50cpm (20sec) ⑤ "
- ② " ⑥ "
- ③ "
- ④ "

⑦ Wipe Dust between cabinets @ Background (20 sec)



- ⑧ @ Background 50cpm (20sec)
- ⑨ "
- ⑩ "

Benchtop (B) on Figure



- ⑪ @ Background 50cpm (20sec) ⑬ "
- ⑫ " ⑮ "
- ⑬ " ⑯ "



Designer and Manufacturer
of
Scientific and Industrial
Instruments

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.
501 Oak Street 10744 Dutchtown Road
325-235-5494 865-392-4601
Sweetwater, TX 79556, U.S.A. Knoxville, TN 37932, U.S.A.

CUSTOMER US ENV PROT AGENCY ORDER NO. 20226422/394374

Mfg. Ludlum Measurements, Inc. Model 3 Serial No. 142962

Mfg. Ludlum Measurements, Inc. Model 44-9 Serial No. PR 145223

Cal. Date 18-Jul-13 Cal Due Date 18-Jul-14 Cal. Interval 1 Year Meterface 202-608

Check mark applies to applicable instr. and/or detector IAW mfg. spec. T. 74 °F RH 42 % Alt 703.8 mm Hg

New Instrument Instrument Received Within Toler. +-10% 10-20% Out of Tol. Requiring Repair Other-See comments

Mechanical ck. Meter Zeroed Background Subtract Input Sens. Linearity

F/S Resp. ck. Reset ck. Window Operation Geotropism

Audio ck. Alarm Setting ck. Batt. ck. (Min. Volt) 2.2 VDC

Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set 900 V Input Sens. 33 mV Det. Oper. 900 V at 33 mV Threshold Dial Ratio = mV

HV Readout (2 points) Ref./Inst. / V Ref./Inst. / V

COMMENTS:

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
X 100	150 mR/hr	1.55	1.5
X 100	50 mR/hr	0.55	0.55
X 10	15 mR/hr	1.6	1.5
X 10	5 mR/hr	0.55	0.5
X 1	1.5 mR/hr = <u>4920 cpm</u>	1.5	1.5
X 1	1.0 mR/hr	1.0	1.0
X 0.1	<u>492</u> cpm	1.5	1.5
X 0.1	<u>104</u> cpm	0.5	0.5

*Uncertainty within ± 10% C.F. within ± 20%

X0.1 Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCCL Z540-1-1994 and ANSI N323-1978 State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources: 059 280 720 734 781 1131 1616 1696 5105 5717CO 5719CO 60646 70897 73410 E551 E552 G112 M565 S-394 S-1054 T-304 T879 T10081 T10082 Y982

Alpha S/N Beta S/N Other

m 500 S/N 266731 Oscilloscope S/N Multimeter S/N 19990465

Calibrated By: Anber Palefox Date 18 July 13

Reviewed By: Shad H Date 18 Jul 13

US EPA NEIC Building 25

Physical Inventory for all sources and/or devices received and possessed under the license

USNRC Materials License 05-14892-01, Amendment 24, expires August 31, 2014

Date of Semiannual Inventory: August 11, 2014

Radiation Safety Officer (RSO): Jamie Headley

Radioactive Standards and Check Sources							
Manufacturer, Model Number, Description		Source S/N	Location	Radionuclide	Quantity	Date Received	Notes
Plastic Button NEN Green Button	1 unit	NEN	Lab 1C425	Cs-137	0.96uCi	5/23/1986	Exempt per 10 CFR 31.5 (ii) Devices containing only tritium or not more than 100 microcuries of other beta and/or gamma emitting material or 10 microcuries of alpha emitting material and devices held in storage in the original shipping container prior to initial installation need not be tested for any purpose
Plastic Button	4 units	3657	Lab 1C425	Cs-137	1.0 uCi	Dec-93	other beta and/or gamma emitting material or 10 microcuries of alpha emitting material and devices held in storage in the original shipping container prior to initial installation need not be tested for any purpose
Ludlum		3658	Lab 1C425	Cs-137	1.0 uCi	Dec-93	
Yellow Button		3659	Lab 1A355	Cs-137	1.0 uCi	Dec-93	
		3660	Lab 1A355	Cs-137	1.0 uCi	Dec-93	
Plastic Button Ludlum (LND, Inc.) 1796 (yellow)	1 unit	1796	Lab 1C425	Cs-137	1.0 uCi	Jun-97	
Plated source, stainless steel clip-on, Cal check on Erberline AC3-8 alpha survey detector	1 unit		Lab 1C425	Th-230	4.3 nCi		Exempt per 10 CFR 71 Appendix A Table A1

Checked By: Ben Burns

Signature/Date:

Ben Burns 8/11/14

Devices/Sealed Sources							
Manufacturer, Model Number, Description	Device S/N	Source S/N	Location	Radionuclide	Quantity	Date Received	Notes
Agilent Gas Chromatograph 6890A (G1530A) with Electron Capture Detector HPGC 62397A4491	US00007396	U5922	Lab 1C045	Nickel 63	15 mCi	8/5/03	Removed from NEIC license under Amendment 24.
	US00007396	U5924	Lab 1C045	Nickel 63	15 mCi	8/5/03	Removed from NEIC license under Amendment 24.
Agilent Gas Chromatograph 6890A (G1530A) with Electron Capture Detector HPGC 62397A4963	US00038329	U5923	Lab 1C045	Nickel 63	15 mCi	8/5/03	Removed from NEIC license under Amendment 24.
	US00038329	U5925	Lab 1C045	Nickel 63	15 mCi	8/5/03	Removed from NEIC license under Amendment 24.
Agilent Gas Chromatograph 7890A (G3440A) with Electron Capture Detector	US10740006	U12435	Lab 1C045	Nickel 63	15 mCi	10/31/07	Removed from NEIC license under Amendment 24.

Checked By: Jamie Headley

Signature/Date:

Jamie Headley 8/11/14

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p style="text-align: center;">Licensee</p> <p>1. Agilent Technologies Inc.</p> <p>2. 2850 Centerville Road Wilmington, Delaware 19808</p>	<p>In accordance with the letter dated September 19, 2013,</p> <p>3. License number 07-28762-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date February 28, 2023</p> <hr/> <p>5. Docket No. 030-32792 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Hydrogen 3</p> <p>B. Nickel 63</p>	<p>7. Chemical and/or physical form</p> <p>A. Plated Foils (U.S. Radium Model LAB 508-1 and LAB 508-3)</p> <p>B. Foils and Plated Sources (Isotope Products Laboratories custom plated sources; DuPont Merck Pharmaceutical custom plated sources; AEA Technology custom plated sources; Eckert & Ziegler Isotope Products (formerly QSA Global) Model NBCD; Eckert & Ziegler Isotope Products Model NER-004P; or Bristol-Myers Squibb Medical Imaging (formerly DuPont Merck Pharmaceutical) Model NER-004P)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 4 curies and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State</p> <p>B. 100 curies and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State</p>
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9. Authorized use:

A. and B. Receipt of returned devices for disposal.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
07-28762-01Docket or Reference Number
030-32792

Amendment No. 19

- B. Research and development as defined in 10 CFR 30.4; testing, production, and assembly of detector cells; demonstration of use of detector cells; and for distribution in detector cells to persons authorized to receive the licensed material pursuant to terms and conditions of specific licenses issued by the Nuclear Regulatory Commission or any Agreement State.

CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at Little Falls Center, 2850 Centerville Road, Wilmington, Delaware.
11. A. Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the letter dated October 31, 2013, and September 5, 2012.
- B. The Radiation Safety Officer for this license is David S. Bennett.
12. The licensee shall not use licensed material in or on human beings.
13. This license does not authorize distribution to persons licensed pursuant to 10 CFR 32.72 or 32.74; to persons exempt from licensing; or to general licensees.
14. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
- C. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.
- D. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
07-28762-01Docket or Reference Number
030-32792

Amendment No. 19

- E. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- F. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- G. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
15. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
16. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
07-28762-01Docket or Reference Number
030-32792

Amendment No. 19

17. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Letter dated September 5, 2012 (ML12271A213)
 - B. Letter dated January 22, 2013 (ML12291A842)
 - C. Letter dated October 31, 2013



For the U.S. Nuclear Regulatory Commission

Date November 8, 2013

By

Original signed by Dennis R. LawyerDennis R. Lawyer
Commercial and R&D Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

Send all kits and requests to:

SUNTRAC Services, Inc.
1818 East Main Street
League City, TX 77573
(281) 338-2133

ATTN: SIT-KIT

CAUTION: Conduct a survey on the outside of each package placed in the U.S. Mails. Any reading over 0.5 mR/hr at contact with the envelope or package shall not be mailed.

LEAK TEST INVENTORY/REPORT FORM

Company Name: U. S. EPA-NEIC (14059)

Address: Box 25227 Denver City: Denver State: CO Zip Code: 80225
Federal Center

Isotope: Ni 63 Activity: 15 mCi

Source Serial No: U5922/Back Leak Test Date: 07/09/14

Device Serial No: US00007396

Manufacturer: Agilent Model No.: G1530A

Smear Taken By: Jamie Headley

----- **DO NOT WRITE BELOW THIS LINE** -----

This is to certify that the above described smear/swab has been assayed at our facilities for indication of source leakage.

Our findings show the leakage to be:

ALPHA	BETA-GAMMA
-----	<.0001

µCi (Wet)

Certified By: 

Date: 07/10/14

SUNTRAC Services, Inc. Representative
(Texas Radioactive License No. L03062)

2838714

Send all kits and requests to:

SUNTRAC Services, Inc.
1818 East Main Street
League City, TX 77573
(281) 338-2133

ATTN: SIT-KIT

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LEAK TEST INVENTORY/REPORT FORM

Company Name: U. S. EPA-NEIC (14059)

Address: Box 25227 Denver City: Denver State: CO Zip Code: 80225
Federal Center

Isotope: Ni 63 Activity: 15 mCi

Source Serial No: U5924/Forward Leak Test Date: 07/09/14

Device Serial No: US00007396

Manufacturer: Agilent Model No.: G1530A

Smear Taken By: Jamie Headley

----- DO NOT WRITE BELOW THIS LINE -----

This is to certify that the above described smear/swab has been assayed at our facilities for indication of source leakage.

Our findings show the leakage to be:

ALPHA	BETA-GAMMA
-----	<.0001

µCi (Wet)

Certified By: 

Date: 07/10/14

SUNTRAC Services, Inc. Representative
(Texas Radioactive License No. L03062)

2838714

Send all kits and requests to:

SUNTRAC Services, Inc.
1818 East Main Street
League City, TX 77573
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LEAK TEST INVENTORY/REPORT FORM

Company Name: U. S. EPA-NEIC (14059)

Address: Box 25227 Denver City: Denver State: CO Zip Code: 80225
Federal Center

Isotope: Ni 63 Activity: 15 mCi

Source Serial No: U5923/Forward Leak Test Date: 07/09/14

Device Serial No: US00038329

Manufacturer: Agilent Model No.: G1530A

Smear Taken By: Jamie Headley

----- DO NOT WRITE BELOW THIS LINE -----

This is to certify that the above described smear/swab has been assayed at our facilities for indication of source leakage.

Our findings show the leakage to be:

ALPHA	BETA-GAMMA
-----	<.0001

μCi (Wet)

Certified By:  Date: 07/10/14

SUNTRAC Services, Inc. Representative
(Texas Radioactive License No. L03062)

2838714

Send all kits and requests to:

SUNTRAC Services, Inc.
1818 East Main Street
League City, TX 77573
(281) 338-2133

ATTN: SIT-KIT

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LEAK TEST INVENTORY/REPORT FORM

Company Name: U. S. EPA-NEIC (14059)

Address: Box 25227 Denver City: Denver State: CO Zip Code: 80225
Federal Center

Isotope: Ni 63 Activity: 15 mCi

Source Serial No: U5925/Back Leak Test Date: 07/09/14

Device Serial No: US00038329

Manufacturer: Agilent Model No.: G1530A

Smear Taken By: Jamie Headley

----- **DO NOT WRITE BELOW THIS LINE** -----

This is to certify that the above described smear/swab has been assayed at our facilities for indication of source leakage.

Our findings show the leakage to be:

ALPHA	BETA-GAMMA
-----	<.0001

µCi (Wet)

Certified By: 

Date: 07/10/14

SUNTRAC Services, Inc. Representative
(Texas Radioactive License No. L03062)

2838714

Send all kits and requests to:

SUNTRAC Services, Inc.
1818 East Main Street
League City, TX 77573
(281) 338-2133

ATTN: SIT-KIT

CAUTION: Conduct a survey on the outside of each package placed in the U.S. Mails. Any reading over 0.5 mR/hr at contact with the envelope or package shall not be mailed.

LEAK TEST INVENTORY/REPORT FORM

Company Name: U. S. EPA-NEIC (14059)

Address: Box 25227 Denver City: Denver State: CO Zip Code: 80225
Federal Center

Isotope: Ni 63 Activity: 15 mCi

Source Serial No: U12435 Leak Test Date: 07/09/14

Device Serial No: US10740006

Manufacturer: Agilent Model No.: G3440A

Smear Taken By: Jamie Headley

----- **DO NOT WRITE BELOW THIS LINE** -----

This is to certify that the above described smear/swab has been assayed at our facilities for indication of source leakage.

Our findings show the leakage to be:

ALPHA	BETA-GAMMA
-----	<.0001

µCi (Wet)

Certified By: 

Date: 07/10/14

SUNTRAC Services, Inc. Representative
(Texas Radioactive License No. L03062)

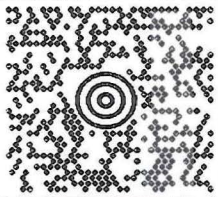
2838714

5 8 4 6 1 1

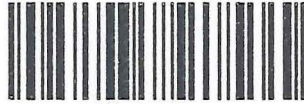
BECKIE PRUITT
303 462-9073
USEPA NEIC
1 DENVER FEDERAL CTR
DENVER CO 80225

0.0 LBS LTR 1 OF 1

SHIP TO:
MATERIAL RADIATION PROTECTION SEC.
817-860 8100
US NUCLEAR REGULATORY COMM. REG IV
1600 E. LAMAR BOULEVARD
ARLINGTON TX 76011-4511

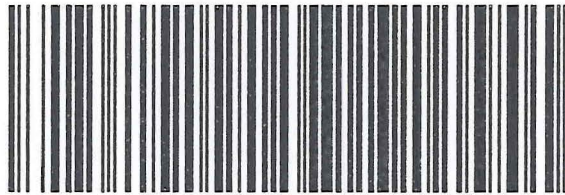


TX 760 0-01



UPS NEXT DAY AIR
TRACKING #: 1Z A42 01T 01 9018 3184

1



BILLING: P/P

Reference # 1: 14BP0801

CS 16.5.32 WXP1E80 54.0A 07/2014



UPS CampusShip: Shipment Label

 FOR UPS SHIPPING ONLY

1 8 4 6 1 1

RECEIVED
AUG 12 2014

DivvIS

Page 1 of 1



DATE
09/02/2014

NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE U.S. Environmental Protection Agency National Enforcement Investigations Center ATTN: Jamie L. Headley, Radiation Safety Officer P.O. Box 25227, Building 25 Denver Federal Center Denver, Colorado 80225-0227	LICENSE NUMBER 05-14892-01
	MAIL CONTROL NUMBER 584611
	LICENSING AND/OR TECHNICAL REVIEWER CH

This is to acknowledge the receipt of your:

LETTER and/or APPLICATION DATED: 08/11/2014

The initial processing, which included an administrative review, has been performed.

AMENDMENT TERMINATION NEW LICENSE RENEWAL

- There were no administrative omissions identified during our initial review.
- This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.
- Your application for a new NRC license did not include your taxpayer identification number. Please fill out NRC Form 531, located at the following link:

<http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>

Send the completed NRC Form 531, by facsimile, to the following number: (301) 415-5387

A copy of your action has been emailed to our License Fee and Accounts Receivable Branch, in our Headquarters office in Rockville, MD. You will be contacted separately if there is a fee issue involved.

Your application has been assigned the above listed **MAIL CONTROL NUMBER**. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region IV
U. S. Nuclear Regulatory Commission
DNMS/NMSB - B
1600 E. Lamar Boulevard
Arlington, TX 76011-4511
(817) 200-1103 or (817) 200-1140

BETWEEN:

Accounts Receivable/Payable
and
Regional Licensing Branches

[FOR ARPB USE]
INFORMATION FROM WBL

Program Code: 03620
Status Code: Pending Termination
Fee Category: 3M
Exp. Date:
Fee Comments: 1D 2C ADDED 2/28/94
Decom Fin Assur Reqd: N

License Fee Worksheet - License Fee Transmittal

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: ENVIRONMENTAL PROTECTION AGENCY
Received Date: 08/12/2014
Docket Number: 3008219
Mail Control Number: 584611
License Number: 05-14892-01
Action Type: Termination

2. FEE ATTACHED

Amount: _____

Check No.: _____

3. COMMENTS

Signed: Colleen Murnahan

Date: 8-21-14

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: _____