Municipal Service Commission Michael Sadowski Leslie G. Lupo Gerald P. Cole Robert K. Alderman Bryan J. Hughes



Electric, Steam, Water Cable Television and High Speed Internet Service since 1889 Roderick J. Lesko General Manager and Secretary 3200 Biddle Avenue, Suite 200 Wyandotte, MI. 48192-0658 Telephone: (734) 324-7100 Fax: (734) 324-7119

Ms. Jennifer Bishop Health Physicist U.S. Nuclear Regulatory Commission, Region III Division of Nuclear Materials Safety Materials Licensing Branch

Re: Control Number 58397, Wyandotte Municipal Power Plant

Dear Ms. Bishop,

Here is the signature letter acknowledging that the requested documentation was emailed to you regarding the removal of our nuclear gauges and the transfer of ownership to Thermo Fisher. The following documentation, previously emailed to you, is as follows:

- 1. Acknowledgement of receipt of radioactive material. (Thermo Fisher)
- 2. Leak Test Report dated 3-20-2014. (MPC)
- 3. Certificate of Disposition of Material. (WMS)
- 4. Radioactive Material License. (TF)
- 5. Field Report for removal service (TF)
- 6. Leak Test Report provided by Thermo Fisher at time of removal of material. (TF)

WMS = Wyandotte Municipal Services TF = Thermo Fisher

Please let me know if you need any additional information. I can be reached at 734-324-7158 or my email is chudson@wyan.org.

Sincerely,

Charlene Hudson

Power Systems Supervising Engineer

Wyandotte Municipal Services



ACKNOWLEDGMENT OF RECEIPT OF RADIOACTIVE MATERIAL

June 26, 2014

Curt Campau Wyandotte 2555 Van Alstyne Wyandotte, MI 48173

RMA Number 32564

Attention Curt Campau:

This is to certify that Thermo Fisher Scientific has received and accepted ownership of the radioactive material described below pursuant to applicable regulations and as authorized by our Texas Radioactive Material License L03524.

Manufacturer	Model	Serial	Isotope	Source	Activity Units	Assay
KAY-RAY/SENSALL	7062BP	S92G1301	Cs-137	6985GH	50 mCi	2/1/1992
KAY-RAY/SENSALL	7062BP	S92G1302	Cs-137	6949GH	50 mCi	2/1/1992
STOCK EQUIP CO.	D14400	SE3816	Cs-137	0303	25 mCi	9/20/1988
STOCK EQUIP. CO.	D14400	SE3817	Cs-137	0304	25 mCi	9/20/1988
STOCK EQUIP CO	D14400	SE3818	Cs-137	0305	25 mCi	9/20/1988
Summary (5 sources)					175 mCi	

This receipt should be retained in your files as a permanent record showing the disposition of this radioactive material. If you are not the Radiation Safety Officer or responsible for maintaining regulatory records for radioactive material, please forward this letter to the appropriate person.

If you have any questions or require additional assistance, please contact us at (800) 437-7979 or (713) 272-2204

Sincerely,

Thermo Fisher Scientific

Danny Vicente

Nuclear Services Specialist

Gauge Inspection and Leak Test Certificate	System Information	(1) NAMEPLATE	<u> </u>
	point level	okay	needs cleaning
USER	dual point level		needs to be replaced
Company : Wyandotte Power Plant	continuous level	(2) ON/OFF INDICATOR	
Address : 2555 Van Alstyne City : Wyandotte	density	🔯 okay	needs cleaning
State : MI Zip: 48192	neutron backscatter		needs to be replaced
PRODUCT	weigh scale	(3) SHUTTER LOCK	
Model : Thermo Fisher Scientific Serial: S92G1801	strip source	🛛 okay	needs to be replaced
Location :	insertion source	(4) SHUTTER OPERATION	
Tag : Isotope : ⊠ Cs-137	analyzer	⊠ okay	needs cleaning
☐ Am-241-Be	STATUS	VERIFIED BY:	needs lubrication
Activity : 50 mCi Assay: 02/92	in use	Survey	stuck on
SURVEY METER (reg'd for leak test certification only)	mounted but not in use	response	stuck off
Brand : Thermo Fisher Scientific	unlocked		missing
Model : 200X Serial: C2185	locked off	(5) OVERALL CONDITION	
Cal. Date :0 6/11/13	in storage	okay	mild to moderate corrosion
Backgnd: 0.1		severe corrosion	needs to be replaced
LEAK TEST		details solitorion	
☐ Not performed ☐ Measured <0.005 uCi			
Measured >0.005 uCi CONTACT RSO	COMMENTS:		
PERFORMED BY	Units will be Ship to Sugar Lan	d for Transfer	
Company: There Name: Grong. Alana do			
Date 5.20-14 Signature			
Five Po	oint Safety Check		
Thermo Fisher Scier	•	g of a nuclear gauge. A	This record is important and must be kept on
1410 Gillingham Lane		lanks for convenience. t be completed. As you	file for inspection by the regulatory agency. ©2006 Thermo Fisher Scientific
Sugar Land, Texas 77478 800-437-7979 or 713-272-0404		hent the findings and/or	24 hour Emergency 1-800-437-7979 http://www.thermo.com Rev. 13 2/22/10

Gauge Inspection and Leak Test Certificate	System Information APPLICATION Doint level	(1) NAMEPLATE	needs cleaning
USER	dual point level		needs to be replaced
Company : Wyandotte Power Plant	continuous level	(2) ON/OFF INDICATOR	,
Address : 2555 Van Alstyne City : Wyandotte	density	⊠ okay	needs cleaning
State : MI Zip: 48192	neutron backscatter		needs to be replaced
PRODUCT	weigh scale	(3) SHUTTER LOCK	
Model : Thermo Fisher Scientific Serial: S92G1802	strip source	⊠ okay	needs to be replaced
Location :	insertion source	(4) SHUTTER OPERATION	
Tag : Isotope : ⊠ Cs-137	analyzer	⊠ okay	needs cleaning
Am-241-Be	STATUS	VERIFIED BY:	needs lubrication
Activity : 50 mCi Assay: 02/92	in use		stuck on
SURVEY METER	mounted but not in use	response	stuck off
(req'd for leak test certification only) Brand : Thermo Fisher Scientific	unlocked		missing
Model : 200X Serial: C2185	locked off	(5) OVERALL CONDITION	
Cal. Date :0 6/11/13	in storage	okay	mild to moderate corrosion
Backgnd: 0.1		severe corrosion	needs to be replaced
LEAK TEST			
☐ Not performed ☐ Measured <0.005 uCi	0014151170		·
Measured >0.005 uCi CONTACT RSO	COMMENTS:	d for Transfer	
PERFORMED BY Company: Therman do	Units will be Ship to Sugar Lan	a for Transfer	
Date 6.20 /H Signature:			
1	oint Safety Check		This would be investigated and sound be book as
Thermo Fisher Scier	,	g of a nuclear gauge. A lanks for convenience.	This record is important and must be kept on file for inspection by the regulatory agency.
1410 Gillingham Lane Sugar Land, Texas 77478		t be completed. As you nent the findings and/or	©2006 Thermo Fisher Scientific 24 hour Emergency 1-800-437-7979
800-437-7979 or 713-272-0404			http://www.thermo.com Rev. 13 2/22/10

Gauge Inspection and	System Information	Five Point Safety Check		
Leak Test Certificate	APPLICATION	(1) NAMEPLATE		
USER	point level	okay	needs cleaning	
Company : Wyandotte Power Plant	dual point level		needs to be replaced	
Address : 2555 Van Alstyne	continuous level	(2) ON/OFF INDICATOR		
City : Wyandotte State : MI Zip: 48192	density	🔯 okay	needs cleaning	
PRODUCT	neutron backscatter		needs to be replaced	
Brand : SECOAL	weigh scale	(3) SHUTTER LOCK		
Model : D14400 Serial: SE3816	strip source	🛛 okay	needs to be replaced	
Location : Tag :	insertion source	(4) SHUTTER OPERATION		
Isotope : X Cs-137 Co-60	analyzer	okay	needs cleaning	
☐ Am-241-Be	STATUS	VERIFIED BY:	needs lubrication	
Activity : 25 mCi Assay: 9/20/88	in use	⊠ survey	stuck on	
SURVEY METER (req'd for leak test certification only)	mounted but not in use	response	stuck off	
Brand : Thermo Fisher Scientific	unlocked		missing	
Model : 200X Serial: C2185	locked off	(5) OVERALL CONDITION		
Cal. Date :0 6/11/13 Backgnd : 0.1	in storage	okay	mild to moderate corrosion	
LEAK TEST		severe corrosion	needs to be replaced	
☐ Not performed				
Measured >0.005 uCi CONTACT RSO	COMMENTS:			
PERFORMED BY	Units will be Ship to Sugar Lan	d for Transfer		
Company: There was ame: Gronge Alvara do				
Date 5 20-14 Signature				
	rm is/may be used to record the visual inspection		This record is important and must be kept on file for inspection by the regulatory agency	

1410 Gillingham Lane Sugar Land, Texas 77478 800-437-7979 or 713-272-0404 Instructions: This form is/may be used to record the visual inspection and leak testing of a nuclear gauge. A preprinted inventory label may be placed over the user and product information blanks for convenience. When this form is used for leak test certification, the survey meter information must be completed. As you complete the inspection, check all of the blanks that apply. Use comments to document the findings and/or recommended corrective actions as needed.

This record is important and must be kept on file for inspection by the regulatory agency. ©2006 Thermo Fisher Scientific 24 hour Emergency 1-800-437-7979 http://www.thermo.com Rev. 13 2/22/10

Thermo Fisher scientific

Gauge Inspection and	System Information	Five Point S	afety Check
Leak Test Certificate	APPLICATION	(1) NAMEPLATE	
USER	point level	okay	needs cleaning
Company : Wyandotte Power Plant	dual point level		needs to be replaced
Address : 2555 Van Alstyne	continuous level	(2) ON/OFF INDICATOR	
City: Wyandotte	density	⊠ okay	needs cleaning
State : MI Zip: 48192	neutron backscatter		needs to be replaced
PRODUCT Brand SCOAL	weigh scale	(3) SHUTTER LOCK	
Model : D14400 Serial: SE3817	strip source	⊠ okay	needs to be replaced
Location :	insertion source	(4) SHUTTER OPERATION	
Tag :	analyzer	∖ okay	needs cleaning
Isotope : ⊠ Cs-137	STATUS	VERIFIED BY:	needs lubrication
Activity : 25 mCi Assay: 9/20/88	☐ in use	⊠ survey	stuck on
SURVEY METER	mounted but not in use	response	stuck off
(req'd for leak test certification only) Brand: Thermo Fisher Scientific	unlocked		missing
Model : 200X Serial: C2185	locked off	(5) OVERALL CONDITION	_ ,
Cal. Date :0 6/11/13	in storage	okay	mild to moderate corrosion
Backgnd: 0.1	in otologe	severe corrosion	needs to be replaced
LEAK TEST		Severe controller	needs to be replaced
☐ Not performed ☐ Measured <0.005 uCi			
Measured >0.005 uCi CONTACT RSO	COMMENTS:		
PERFORMED BY	Units will be Ship to Sugar Lar	nd for Transfer	
Company: Therens Name: Groupe ALVANA do			
Date 5.20.14 Signature:			
	orm is/may be used to record the visual inspection y label may be placed over the user and produ		This record is important and must be kept on file for inspection by the regulatory agency.

1410 Gillingham Lane Sugar Land, Texas 77478 800-437-7979 or 713-272-0404 Instructions: This form is/may be used to record the visual inspection and leak testing of a nuclear gauge. A preprinted inventory label may be placed over the user and product information blanks for convenience. When this form is used for leak test certification, the survey meter information must be completed. As you complete the inspection, check all of the blanks that apply. Use comments to document the findings and/or recommended corrective actions as needed.

This record is important and must be kept on file for inspection by the regulatory agency. ©2006 Thermo Fisher Scientific 24 hour Emergency 1-800-437-7979 http://www.thermo.com Rev. 13 2/22/10

Gauge Inspection and	System Information	Five Point Safety Check		
Leak Test Certificate	APPLICATION	(1) NAMEPLATE		
USER	point level	okay	needs cleaning	
Company : Wyandotte Power Plant	dual point level	•	needs to be replaced	
Address : 2555 Van Alstyne	continuous level	(2) ON/OFF INDICATOR		
City : Wyandotte	density	🔀 okay	needs cleaning	
State : MI Zip: 48192	neutron backscatter		needs to be replaced	
PRODUCT Brand: SECOAL	weigh scale	(3) SHUTTER LOCK	·.	
Model : D14400 Serial: SE3818	strip source	⊠ okay	needs to be replaced	
Location:	insertion source	(4) SHUTTER OPERATION		
Tag :	analyzer	⊠ okay	needs cleaning	
Isotope : Cs-137 Co-60	STATUS	VERIFIED BY:	needs lubrication	
Am-241-Be	in use	Survey	stuck on	
Activity: 25 mCi Assay: 9/20/88 SURVEY METER			stuck off	
(req'd for leak test certification only)	mounted but not in use	response		
Brand : Thermo Fisher Scientific	unlocked	(2) 21 (22 11 22 22 22 22 22 22 22 22 22 22 22 2	missing	
Model : 200X Serial: C2185 Cal. Date :0 6/11/13	locked off	(5) OVERALL CONDITION	677	
Backgnd : 0.1	in storage	okay	mild to moderate corrosion	
LEAK TEST		severe corrosion	needs to be replaced	
☐ Not performed ☐ Measured <0.005 uCi				
Measured >0.005 uCi CONTACT RSO	COMMENTS:			
PERFORMED BY	Units will be Ship to Sugar Lar	nd for Transfer		
Company: Theen Name: Grouge ALVARA do				
Date 5 120 114 Signature				
	orm is/may be used to record the visual inspection viabel may be placed over the user and produ		This record is important and must be kept on file for inspection by the regulatory agency.	

1410 Gillingham Lane Sugar Land, Texas 77478 800-437-7979 or 713-272-0404 Instructions: This form is/may be used to record the visual inspection and leak testing of a nuclear gauge. A preprinted inventory label may be placed over the user and product information blanks for convenience. When this form is used for leak test certification, the survey meter information must be completed. As you complete the inspection, check all of the blanks that apply. Use comments to document the findings and/or recommended corrective actions as needed.

This record is important and must be kept on file for inspection by the regulatory agency.

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24 hour Emergency 1-800-437-7979

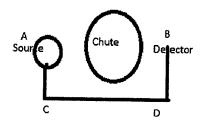
http://www.thermo.com

Rev. 13 2/22/10



Sealed Source Inventory and Radiation Exposure Measurements

Boiler 7, Chute 1 SE-CO D14400 Holder S/N SE-3816 25 mCi on 9/88



Survey Instrument Used: Ludlum 14C with Side Window GM Probe S/N 292565 Calibrated in mR/hr on 4/9/13 Operational Check acceptable on 3/6/14

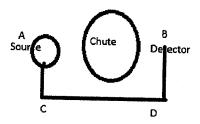
Readings (mR/hr)	Surface	10 cm	
Α	0.5	0.05	
В	5.0	0.5	
С	0.05	n/a	,
D	0.05	n/a	M
		•	

July 3-20-14



Sealed Source Inventory and Radiation Exposure Measurements

Boiler 7, Chute 2 SE-CO D14400 Holder S/N SE-3817 25 mCi on 9/88



Survey Instrument Used: Ludlum 14C with Side Window GM Probe S/N 292565 Calibrated in mR/hr on 4/9/13 Operational Check acceptable on 3/6/14

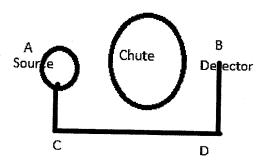
Readings (mR/hr)	Surface	10 cm
A	0.5	0.05
B	5.0	0.5
C	0.05	n/a
D	0.05	n/a

Mrs 32014



Sealed Source Inventory and Radiation Exposure Measurements

Boiler 7, Chute 3 SE-CO D14400 Holder S/N SE-3818 25 mCi on 9/88



Survey Instrument Used: Ludlum 14C with Side Window GM Probe S/N 292565 Calibrated in mR/hr on 4/9/13 Operational Check acceptable on 3/6/14

The source was initially in a rotated position and the source pointed away from the coal chute. Readings at the detector were 1 mR/hr.

The source was rotated back to the proper operating position, that is, with the source pointing at the chute.

Maximum reading at any point on the perimeter of the device was 0.5 mR/hr.

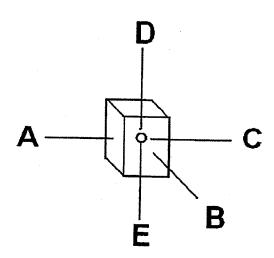
Shutter check is not applicable for this device.

Readings (mR/hr)	Surface	10 cm	
A B C D	0.5 0.5 0.05 0.05	0.05 0.05 n/a n/a	coal chute is assumed to be full as the readings at the detector for this chute are much less than the other chutes.
			3.70



Sealed Source Inventory, Radiation Exposure Measurements, and Shutter Check

Boiler 8, Chute A Kay-Ray Source 7062BP Holder S/N S92G1301 50 mCi on 2/92



Survey Instrument Used: Ludlum 14C with Side Window GM Probe S/N 292565 Calibrated in mR/hr on 4/9/13 Operational Check acceptable on 3/6/14

Readings (mR/hr)	Surface	10 cm	Workspace(50 cm)
A B	5.0	1.6	0.08
C	4.5 8.0	0.1 2.0	0.08 0.10
D	8.0	2.0	n/a
E	10	2.0	n/a

Reading at electrical panel: 0.10 mR/hr

Shutter Check:

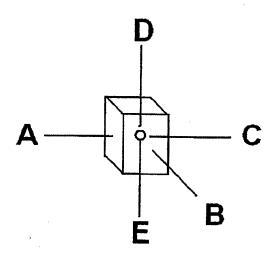
Reading at detector(coal chute full) shutter open: 0.40 mR/hr shutter closed: 0.02 mR/hr

1.5 mR/hr when chute empty



Sealed Source Inventory, Radiation Exposure Measurements, and Shutter Check

Boiler 8, Chute B Kay-Ray Source 7062BP Holder S/N S92G1302 50 mCi on 2/92



Survey Instrument Used: Ludlum 14C with Side Window GM Probe S/N 292565 Calibrated in mR/hr on 4/9/13 Operational Check acceptable on 3/6/14

Readings (mR/hr)	Surface	10 cm	Workspace(50 cm)
Α	6.5	1.5	0.08
В	5.0	0.5	0.05
С	6.5	2.0	0.15
D	6.5	1,5	n/a
E	6.5	1.0	n/a

Reading at electrical panel: 0.05 mR/hr

Shutter Check

Reading at detector(coal chute full) shutter open: 0.45 mR/hr shutter closed: 0.03 mR/hr July 3-20-14



Sealed Source Inventory and Leak Test

Facility: City of Wyandotte, Department of Municipal Service

Date: 03/06/14

Nuclide Type	Calibration Activity	Calibration Date	Location	Model	Serial
Cs-137 Fixed Gauge	25 mCi	09/88	Boiler7(1)	D14400	SE-3816
Cs-137 Fixed Gauge	25 mCi	09/86	Boiler7(2)	D14400	SE-3817
Cs-137 Fixed Gauge	25 mCi	09/88	Boiler7(3)	D14400	SE-3818
Cs-137 Fixed Gauge	50 mCi	02/92	Boiler8(A)	7062BP	S92G1301
Cs-137 Fixed Gauge	50 mCi	02/92	Boiler8(B)	7062BP	S92G1302

Comment: The sources listed above were leak tested using a dry wipe technique and were found to have less than $0.005~\mu\text{Ci}$ removable activity. The following Minimum Detectable Activities are based upon a background at the indicated value. Background was at or below these levels when the above tests were completed. Well Counter: Captus 3000

Nuclide	<u>MDA</u>	Background
Cs-137	2.00 x 10 ⁻⁴ μCi	145 cts/1 min
Ba-133	8.80 x 10 ⁻⁵ μCi	204 cts/1 min
Co-57	1.70 x 10 ⁻⁵ μCi	53 cts/1 min

Tested

May String 3/20/14

Dalzell-Bishop, Jennifer

From:

chudson chudson <chudson@wyan.org>

Sent:

Wednesday, July 16, 2014 2:30 PM

To:

Dalzell-Bishop, Jennifer; Chris Brohl; Curt Campau

Subject:

Fwd: Cover letter for Control Number 58397 from Wyandotte Municipal Services

Attachments:

nrc wms control number 58397.pdf

Hi Jennifer,

Attached is the signed letter; please let me know if you need any other documentation.

Thank you, Charlene

Note:

This message is being sent via my cell phone.

----- Forwarded message ------From: "Rod Lesko" <<u>rlesko@wyan.org</u>>

Date: Jul 16, 2014 3:25 PM

Subject:

To: "chudson chudson" < chudson@wyan.org>

Cc:

Rod Lesko

General Manger

WYANDOTTE MUNICIPAL SERVICES

3200 Biddle Ave, Suite 200

Wyandotte, Mi. 48192

734.324.7111

