

associated electric cooperative, inc.

New Madrid Power Plant P.O. Box 156 New Madrid, Missouri 63869 Phone 573-643-2211 Fax 573-643-2001

January 8, 2016

Ms. Patricia Pelke Chief of Materials Licensing Branch Division of Nuclear Materials Safety U.S. NRC Region III 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532-4351

Re: Please amend our current license to reflect the removal and transfer of ownership of 24-Cesium 137, sealed sources from Associated Electric Cooperative, Inc. to Thermo Fisher Scientific-License # L03524.

License # 24-32742-01 Docket # 030-38014

Dear Ms. Pelke,

573-643-2211

We hereby request that our license be amended to remove the 24 sealed Cesium-137 sources from our inventory:

6A. Nuclide:	Cesium-137
7A. Form:	Sealed Source
8A. Limit:	24 sources, not to exceed 200 millicuries per source. Total activity 4.8 curies.
9A. Use:	For use in Rosemount, Kay-Ray/Sensall, Inc. Model 7080 source holders for level or
	density measurements.

Attached to this letter is a copy of the gage inspection and leak test certificates, and acknowledgement of receipt of radioactive material from Thermo Fisher Scientific. Thermo Fisher Scientific is manufacture of the listed sources and has taken ownership of the 24 sealed sources.

If you have any questions regarding the removal of these sources, please contact me.

Sincerely, Thomas Halstead Radiation Safety Officer Associated Electric Cooperative, Inc. New Madrid Power Plant P.O. Box 156 Marston, MO 63866

System Information	Five Point Sa	afety Check
APPLICATION	(1) NAMEPLATE	
🔀 point level	🔀 okay	needs cleaning
dual point level		needs to be replaced
continuous level	(2) ON/OFF INDICATOR	
density	🖂 okay	needs cleaning
neutron backscatter		needs to be replaced
	(3) SHUTTER LOCK	
		needs to be replaced
	· · · · ·	
	· · · ·	needs cleaning
STATUS		needs lubrication
in use	survey	stuck on
mounted but not in use	🔀 response	stuck off
unlocked		missing
⊠ locked off	(5) OVERALL CONDITION	
in storage	🔀 okay	mild to moderate corrosion
Ū	1	needs to be replaced
Units to be ship to Sugar Land	, Texas for custody transfer.	
tory label may be placed over the user and produ	ct information blanks for convenience.	This record is important and must be kept on file for inspection by the regulatory agency. ©2006 Thermo Fisher Scientific
pection, check all of the blanks that apply. Use con	nments to document the findings and/or	24 hour Emergency 1-800-437-7979 http://www.thermo.com Rev. 13 2/22/10
	APPLICATION APPLICATION point level dual point level continuous level density neutron backscatter weigh scale strip source insertion source analyzer STATUS in use unlocked locked off in storage	APPLICATION (1) NAMEPLATE

Gauge Inspection and	System Information	Five Point Sa	afety Check
Leak Test Certificate	APPLICATION	(1) NAMEPLATE	
USER	🛛 point level	🔀 okay	needs cleaning
Company : Associated Electric COOP	dual point level		needs to be replaced
Address : 41 St. Jude Industrial Park	continuous level	(2) ON/OFF INDICATOR	
City : Marston	density	🔀 okay	needs cleaning
State : MO Zip: 63866	neutron backscatter		needs to be replaced
PRODUCT Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12034A	strip source	🔀 okay	needs to be replaced
Location :Bag House Hopper	insertion source	(4) SHUTTER OPERATION	
Tag :	analyzer	🛛 okay	needs cleaning
Isotope : 🛛 Cs-137 🗌 Co-60	STATUS	VERIFIED BY:	
Am-241-Be Activity : 200mCi Assay: 11/80			stuck on
Activity : 200mCi Assay: 11/80 SURVEY METER			
(req'd for leak test certification only)	mounted but not in use	🔀 response	stuck off
Brand : RadEye	unlocked		missing
Model : B20 Serial: 30782	locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14	in storage	🔀 okay	mild to moderate corrosion
Backgnd :.01		severe corrosion	needs to be replaced
LEAK TEST			
Not performed X Measured <0.005 uCi			
Measured >0.005 uCi CONTACT RSO	COMMENTS:		
PERFORMED BY	Units to be ship to Sugar Land	l, Texas for custody transfer.	
Company : Thermo Fisher Name : John Bandle, //			
Date : 2/4/15 Signature:			
	orm 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 LaneWhen this form is used for leak test certification, the survey meter information must be completed. As you©2006 Thermo Fisher ScientificSurger Land Texas 77478complete the inspection, check all of the blanks that apply. Use comments to document the findings and/or24 hour Emergency 1-800-437-7979			©2006 Thermo Fisher Scientific

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State : MO Zip: 63866	neutron backscatter		needs to be replaced
PRODUCT Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12035A	strip source	🖂 okay	needs to be replaced
Location :Bag House Hopper	insertion source	(4) SHUTTER OPERATION	
Tag :	analyzer	🖂 okay	needs cleaning
Isotope : Cs-137 Co-60	STATUS	VERIFIED BY:	needs lubrication
Am-241-Be Activity : 200mCi Assay:10/80	☐ in use	survey	stuck on
SURVEY METER	mounted but not in use	i suivey	stuck off
(req'd for leak test certification only)		(2) Tesponse	
Brand : RadEye			missing
Model : B20 Serial: 30782 Cal. Date : 4/28/14	locked off	(5) OVERALL CONDITION	
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LEAK TEST		severe corrosion	needs to be replaced
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PERFORMED BY	Units to be ship to Sugar Land	, Texas for custody transfer.	
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Date : 2/4/15 Signature:			
1410 Gillingham Lane The sugar Land Texas 77478 The sugar 1000 Texas 77478 Texas 774	orm is/may be used to record the visual inspection ry label may be placed over the user and produ- used for leak test certification, the survey meter ction, check all of the blanks that apply. Use con- ective actions as needed.	et information blanks for convenience. information must be completed. As you	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

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State : MO Zip: 63866 PRODUCT	neutron backscatter		needs to be replaced
Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12036A	strip source	🛛 okay	needs to be replaced
Location :Bag House Hopper	insertion source	(4) SHUTTER OPERATION	
	analyzer	🛛 okay	needs cleaning
Isotope : Cs-137 Co-60	STATUS	VERIFIED BY:	needs lubrication
Am-241-Be Activity : 200mCi Assay:11/80	in use	survey	stuck on
SURVEY METER	mounted but not in use	response	stuck off
(req'd for leak test certification only)			
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PERFORMED BY	Units to be ship to Sugar Land	l, Texas for custody transfer.	
Company : Thermo Fisher Name/: John Bandle	h		
Date : 2/4/15 Signature:	И		
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City : Marston State : MO Zip: 63866	density	🔀 okay	needs cleaning
State : MO Zip: 63866 PRODUCT	neutron backscatter		needs to be replaced
Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12033B	strip source	🔀 okay	needs to be replaced
Location :Bag House Hopper	insertion source	(4) SHUTTER OPERATION	
Tag :	analyzer	🛛 okay	needs cleaning
Isotope : Cs-137 Co-60	STATUS	VERIFIED BY:	
Am-241-Be Activity : 200mCi Assay: 1/78		survey	stuck on
SURVEY METER	mounted but not in use	Survey	stuck off
(req'd for leak test certification only)			
Brand : RadEye			missing
Model : B20 Serial: 30782	locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14 Backgnd : .01	in storage	🔀 okay	mild to moderate corrosion
LEAK TEST		severe corrosion	needs to be replaced
Not performed X Measured <0.005 uCi			
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PERFORMED BY	Units to be ship to Sugar Land	, Texas for custody transfer.	
Company : Thermo Fisher Name : John Bangle			
Date : 2/4/15 Signature:			
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PRODUCT Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12034B	strip source	🛛 okay	needs to be replaced
Location :Bag House Hopper	insertion source	(4) SHUTTER OPERATION	
Tag :			
Isotope : 🔀 Cs-137 🔲 Co-60	analyzer	🔀 okay	needs cleaning
Am-241-Be	STATUS	VERIFIED BY:	needs lubrication
Activity : 200mCi Assay: 11/80	in use	survey	stuck on
SURVEY METER (req'd for leak test certification only)	in use mounted but not in use	🔀 response	stuck off
Brand : RadEye	unlocked		missing
Model : B20 Serial: 30782	locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14	in storage	🔀 okay	mild to moderate corrosion
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PERFORMED BY	Units to be ship to Sugar Land	, Texas for custody transfer.	
Company : Thermo Fisher Name : John Bandle			
Date : 2/4/15 Signature:			
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PRODUCT Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial:12035B	strip source	🛛 okay	needs to be replaced
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Isotope : 🛛 Cs-137 🗌 Co-60	STATUS		needs lubrication
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Activity : 200mCi Assay:11/80 SURVEY METER	in use	survey	
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Model : B20 Serial: 30782	locked off	(5) OVERALL CONDITION	
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PERFORMED BY	Units to be ship to Sugar Land	, Texas for custody transfer.	
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Date : 2/4/15 Signature:			
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Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12036B	strip source	🔀 okay	needs to be replaced
Location :Bag House Hopper	insertion source	(4) SHUTTER OPERATION	
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PERFORMED BY	Units to be ship to Sugar Land	i, rexastor custody transfer.	
Company : Thermo Fisher Name : John Bandle Date : 2/4/15 Signature:			
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State : MO Zip: 63866	neutron backscatter		needs to be replaced
PRODUCT Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12033C	strip source	🛛 okay	needs to be replaced
Location :Bag House Hopper	insertion source		
Tag :	analyzer	🖾 okay	needs cleaning
Isotope : 🔀 Cs-137 🔲 Co-60	STATUS		needs lubrication
Am-241-Be			
Activity : 200mCi Assay:1/78	in use	survey	stuck on
SURVEY METER (req'd for leak test certification only)	mounted but not in use	🔀 response	stuck off
Brand : RadEye	unlocked		missing
Model : B20 Serial: 30782	locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14	in storage	🔀 okay	mild to moderate corrosion
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PERFORMED BY	Units to be ship to Sugar Land	Texas for custody transfer	
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Date : 2/4/15 Signature:			
Thermo Fisher Scientific Instructions: This f	orm is/may be used to record the visual inspection visual product the user and product the u		This record is important and must be kept on file for inspection by the regulatory agency.
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LEAK TEST		severe corrosion	needs to be replaced
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Measured >0.005 uCi CONTACT RSO	COMMENTS:		
PERFORMED BY	Units to be ship to Sugar Land	I, Texas for custody transfer.	
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Date : 2/4/15 Signature:			
1410 Gillingham Lane preprinted inventory label may be placed over the user and product information blanks for convenience. file for inspection by the 02006 Thermo Fisher Sc ©2006 Thermo Fisher Sc		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	
	ective actions as needed.		http://www.thermo.com Rev. 13 2/22/10

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Tag : Isotope : 🛛 Cs-137 🗌 Co-60	analyzer	🔀 okay	needs cleaning
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Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12036C	strip source	🔀 okay	needs to be replaced
Location :Bag House Hopper	insertion source	(4) SHUTTER OPERATION	
Tag : Isotope : 🕅 Cs-137 🔲 Co-60	analyzer	🔀 okay	needs cleaning
Am-241-Be	STATUS	VERIFIED BY:	needs lubrication
Activity : 200mCi Assay:11/80	🗌 in use	survey	stuck on
SURVEY METER (reg'd for leak test certification only)	in use mounted but not in use	🔀 response	stuck off
Brand : RadEye	unlocked		missing
Model : B20 Serial: 30782	S locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14	in storage	🔀 okay	mild to moderate corrosion
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State : MO Zip: 63866	neutron backscatter		needs to be replaced
PRODUCT Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12033D	strip source	🛛 okay	needs to be replaced
Location :Bag House Hopper	insertion source		
Tag :			
Isotope : 🔀 Cs-137 🗌 Co-60	analyzer	🔀 okay	needs cleaning
Am-241-Be	STATUS		needs lubrication
Activity : 200mCi Assay: 1/78	in use	survey	stuck on
SURVEY METER (req'd for leak test certification only)	mounted but not in use	🔀 response	stuck off
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800-437-7979 or 713-272-0404 recommended corr	ective actions as needed.		http://www.thermo.com Rev. 13 2/22/10

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Activity : 200mCi Assay: 11/80	in use	survey	 stuck on
SURVEY METER	mounted but not in use	🔀 response	stuck off
(req'd for leak test certification only)		Ysama II	missing
Brand : RadEye Model : B20 Serial: 30782	∑ locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14	in storage		mild to moderate corrosion
Backgnd :.01		severe corrosion	needs to be replaced
Not performed Measured <0.005 uCi	201112122		
Measured >0.005 uCi CONTACT RSO	COMMENTS:		
PERFORMED BY	Units to be ship to Sugar Land	, Texas for custody transfer.	
Company : Thermo Fisher Name : John Bandle			
Date : 2/4/15 Signature:			
1410 Gillingham Lane preprinted invento Sugar Land, Texas 77478 complete the inspector	form is/may be used to record the visual inspection ry label may be placed over the user and produ- used for leak test certification, the survey meter extion, check all of the blanks that apply. Use con- rective actions as needed.	ict information blanks for convenience. information must be completed. As you	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 : Associated Electric COOP	dual point level		needs to be replaced
Address : 41 St. Jude Industrial Park	continuous level	(2) ON/OFF INDICATOR	
City : Marston	density	🔀 okay	needs cleaning
State : MO Zip: 63866	neutron backscatter		needs to be replaced
PRODUCT Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12035D	Strip source	🛛 okay	needs to be replaced
Location :Bag House Hopper	insertion source	(4) SHUTTER OPERATION	
Tag :	analyzer	()) one (12) okay	needs cleaning
Isotope : Cs-137 Co-60	STATUS	VERIFIED BY:	
Am-241-Be			
Activity : 200mCi Assay:11/80 SURVEY METER	in use	survey	
(req'd for leak test certification only)	mounted but not in use	🔀 response	☐ stuck off
Brand : RadEye	unlocked		missing
Model : B20 Serial: 30782	🔀 locked off	(5) OVERALL CONDITION	······
Cal. Date : 4/28/14 Backgnd : .01	in storage	🔀 okay	mild to moderate corrosion
		severe corrosion	needs to be replaced
Not performed Measured <0.005 uCi			
Measured >0.005 uCi CONTACT RSO	COMMENTS:		
PERFORMED BY	Units to be ship to Sugar Land	l, Texas for custody transfer.	
Company : Thermo Fisher Name : John Bandle			
Date : 2/4/15 Signature:			
	form is/may be used to record the visual inspection		This record is important and must be kept on
1410 Gillingham Lane When this form is complete the inspector	y label may be placed over the user and produ- used for leak test certification, the survey meter ction, check all of the blanks that apply. Use con- ective actions as needed.	information must be completed. As you	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 : Associated Electric COOP	dual point level		needs to be replaced
Address : 41 St. Jude Industrial Park	continuous level	(2) ON/OFF INDICATOR	
City : Marston State : MO Zip: 63866	density	🔀 okay	needs cleaning
PRODUCT	neutron backscatter		needs to be replaced
Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12036D	strip source	🛛 okay	needs to be replaced
Location :Bag House Hopper	insertion source	(4) SHUTTER OPERATION	
Tag : Isotope : 🕅 Cs-137 🦳 Co-60	analyzer	🛛 okay	needs cleaning
Am-241-Be	STATUS	VERIFIED BY:	needs lubrication
Activity : 200mCi Assay:11/80	in use	survey	stuck on
SURVEY METER	mounted but not in use	🔀 response	stuck off
(req'd for leak test certification only) Brand : RadEye			
Model : B20 Serial: 30782	locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14	in storage		
Backgnd :.01			inild to moderate corrosion
		severe corrosion	l needs to be replaced
└ Not performed			
Measured >0.005 uCi CONTACT RSO	COMMENTS:		
PERFORMED BY	Units to be ship to Sugar Land,	Texas for custody transfer.	
Company : Thermo Fisher Name : John Bandle Date : 2/4/15 Signature:			
Thermo Fisher Scientific	orm is/may be used to record the visual inspection	and leak testing of a nuclear gauge. A	This record is important and must be kept on
preprinted inventor 1410 Gillingham Lane When this form is u Sugar Land, Texas 77478 complete the inspector	is used for leak test certification, the survey meter information blanks for convenience. is used for leak test certification, the survey meter information must be completed. As you spection, check all of the blanks that apply. Use comments to document the findings and/or corrective actions as needed.		

Gauge Inspection and	System Information	Five Point Safety Check	
Leak Test Certificate	APPLICATION	(1) NAMEPLATE	
USER	int level	🔀 okay	needs cleaning
Company : Associated Electric COOP	dual point level		needs to be replaced
Address : 41 St. Jude Industrial Park	continuous level	(2) ON/OFF INDICATOR	
City : Marston State : MO Zip: 63866	density	🔀 okay	needs cleaning
PRODUCT	neutron backscatter		needs to be replaced
Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12033E	strip source	🔀 okay	needs to be replaced
Location :Bag House Hopper Tag :	insertion source	(4) SHUTTER OPERATION	
Isotope : 🔀 Cs-137 🔲 Co-60	analyzer	🔀 okay	needs cleaning
Am-241-Be	STATUS	VERIFIED BY:	needs lubrication
Activity : 200mCi Assay:1/78	in use	survey	stuck on
SURVEY METER (req'd for leak test certification only)	⊠ mounted but not in use	🔀 response	stuck off
Brand : RadEye	unlocked		missing
Model : B20 Serial: 30782	S locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14	in storage	🔀 okay	mild to moderate corrosion
Backgnd :.01 LEAK TEST		severe corrosion	needs to be replaced
Not performed Measured <0.005 uCi		inequal	
Measured >0.005 uCi CONTACT RSO	COMMENTS:		
PERFORMED BY	Units to be ship to Sugar Land,	Texas for custody transfer.	
Company : Thermo Fisher Name : John Bandle	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Date : 2/4/15 Signature:			
Thermo Fisher Scientific Instructions: This for	m is/may be used to record the visual inspection	and leak testing of a nuclear gauge. A	This record is important and must be kept on
1410 Gillingham Lane When this form is us Sugar Land, Texas 77478 complete the inspect	label may be placed over the user and product sed for leak test certification, the survey meter in tion, check all of the blanks that apply. Use com- ctive actions as needed.	t information blanks for convenience.	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 : Associated Electric COOP	dual point level		needs to be replaced
Address : 41 St. Jude Industrial Park City : Marston	continuous level	(2) ON/OFF INDICATOR	
City : Marston State : MO Zip: 63866	density	🔀 okay	needs cleaning
PRODUCT	neutron backscatter		needs to be replaced
Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12034E	strip source	🔀 okay	needs to be replaced
Location :Bag House Hopper Tag :	insertion source	(4) SHUTTER OPERATION	
Isotope : 🛛 Cs-137 🔲 Co-60	analyzer	🔀 okay	needs cleaning
Am-241-Be	STATUS	VERIFIED BY:	needs lubrication
Activity : 200mCi Assay:10/80	in use	survey	stuck on
SURVEY METER (req'd for leak test certification only)	⊠ mounted but not in use	🔀 response	stuck off
Brand : RadEye	unlocked		missing
Model : B20 Serial: 30782	🔀 locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14 Backgnd : .01	in storage	🔀 okay	mild to moderate corrosion
		severe corrosion	needs to be replaced
□ Not performed			
Measured >0.005 uCi CONTACT RSO	COMMENTS:		
PERFORMED BY	Units to be ship to Sugar Land,	Texas for custody transfer.	
Company : Thermo Fisher Name : John Bandle			
Date : 2/4/15 Signature:			
Thermo Fisher Scientific	rm is/may be used to record the visual inspectior v label may be placed over the user and produc	n and leak testing of a nuclear gauge. A	This record is important and must be kept on
1410 Gillingham Lane When this form is us Sugar Land, Texas 77478 complete the inspect	sed for leak test certification, the survey meter in tion, check all of the blanks that apply. Use com ctive actions as needed.	aformation must be completed. As you	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	ormation Five Point Safety Check	
Leak Test Certificate	APPLICATION	(1) NAMEPLATE	
USER	🛛 point level	🔀 okay	needs cleaning
Company : Associated Electric COOP	dual point level		needs to be replaced
Address :41 St. Jude Industrial Park City :Marston	continuous level	(2) ON/OFF INDICATOR	
State : MO Zip: 63866	🗌 density	🔀 okay	needs cleaning
PRODUCT	neutron backscatter		needs to be replaced
Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12035E	Strip source	🔀 okay	needs to be replaced
Location :Bag House Hopper Tag :	insertion source	(4) SHUTTER OPERATION	
Isotope : 🛛 Cs-137 🔲 Co-60	analyzer	🔀 okay	needs cleaning
Am-241-Be	STATUS	VERIFIED BY:	needs lubrication
Activity : 200mCi Assay:10/80	🔲 in use	survey	stuck on
SURVEY METER (req'd for leak test certification only)	⊠ mounted but not in use	🔀 response	stuck off
Brand : RadEye] unlocked		missing
Model : B20 Serial: 30782	S locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14 Backgnd : .01	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 to be ship to Sugar Land,	Texas for custody transfer.	
Company : Thermo Fisher Name : John Bandle			
Date : 2/4/15 Signature: <u>Allos Act</u>			
Thermo Fisher Scientific	rm is/may be used to record the visual inspection label may be placed over the user and produc	and leak testing of a nuclear gauge. A	This record is important and must be kept on
1410 Gillingham Lane when this form is us	sed for leak test certification, the survey meter in ion, check all of the blanks that apply. Use com	formation must be completed. As you	file for inspection by the regulatory agency. ©2006 Thermo Fisher Scientific
recommended correc	tive actions as needed.	mente co doctatione die fundings withol	24 hour Emergency 1-800-437-7979 http://www.thermo.com Rev. 13 2/22/10

Gauge Inspection and	System Information	on Five Point Safety Check	
Leak Test Certificate	APPLICATION	(1) NAMEPLATE	
USER	🛛 point level	🔀 okay	needs cleaning
Company : Associated Electric COOP	dual point level		needs to be replaced
Address : 41 St. Jude Industrial Park	continuous level	(2) ON/OFF INDICATOR	
City : Marston State : MO Zip: 63866	density	🔀 okay	needs cleaning
PRODUCT	neutron backscatter		needs to be replaced
Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12036E	strip source	🔀 okay	needs to be replaced
Location :Bag House Hopper Tag :	insertion source	(4) SHUTTER OPERATION	
Isotope : 🛛 Cs-137 🗍 Co-60	analyzer	🔀 okay	needs cleaning
Am-241-Be	STATUS	VERIFIED BY:	needs lubrication
Activity : 200mCi Assay:11/80	🗌 in use	survey	 ☐ stuck on
SURVEY METER (req'd for leak test certification only)	Mounted but not in use		stuck off
Brand : RadEye	unlocked		missing
Model : B20 Serial: 30782	S locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14	in storage	🔀 okay	mild to moderate corrosion
Backgnd :.01 LEAK TEST	-	severe corrosion	needs to be replaced
Not performed Measured <0.005 uCi			
Measured >0.005 uCi CONTACT RSO	COMMENTS:		
PERFORMED BY	Units to be ship to Sugar Land,	Texas for custody transfer	
Company : Thermo Fisher Name/ John Bangle			
Date : 2/4/15 Signature:			
Thermo Fisher Scientific Instructions: This for	rm is/may be used to record the visual inspection	n and leak testing of a nuclear gauge. A	This record is important and must be kept on
1410 Gillingham Lane When this form is us Sugar Land, Texas 77478 complete the inspect	label may be placed over the user and produced for leak test certification, the survey meter is tion, check all of the blanks that apply. Use competive actions as needed.	nformation must be completed. As you	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	Dint level	🔀 okay	needs cleaning
Company : Associated Electric COOP	dual point level		needs to be replaced
Address : 41 St. Jude Industrial Park	Continuous level	(2) ON/OFF INDICATOR	·
City : Marston State : MO Zip: 63866	density	🔀 okay	needs cleaning
PRODUCT	neutron backscatter		needs to be replaced
Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12033F	strip source	🔀 okay	needs to be replaced
Location :Bag House Hopper Tag :	insertion source	(4) SHUTTER OPERATION	
Isotope : 🔀 Cs-137 🗍 Co-60	🗌 analyzer	🔀 okay	needs cleaning
Am-241-Be	STATUS	VERIFIED BY:	needs lubrication
Activity : 200mCi Assay: 1/78	in use	survey	stuck on
SURVEY METER (req'd for leak test certification only)	in use mounted but not in use	🔀 response	stuck off
Brand : RadEye	unlocked		missing
Model : B20 Serial: 30782	🔀 locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14 Backgnd : .01	in storage	🔀 okay	mild to moderate corrosion
		severe corrosion	needs to be replaced
□ Not performed			
Measured >0.005 uCi CONTACT RSO	COMMENTS:		
PERFORMED BY	Units to be ship to Sugar Land	, Texas for custody transfer.	
Company : Thermo Fisher Name : John Bandle Date : 2/4/15 Signature:			
Thermo Fisher Scientific Instructions: This for	form is/may be used to record the visual inspection	n and leak testing of a nuclear gauge. A	This record is important and must be kept on
1410 Gillingham Lane When this form is u Sugar Land, Texas 77478 complete the inspec	y label may be placed over the user and produce used for leak test certification, the survey meter in tion, check all of the blanks that apply. Use con- ctive actions as needed.	ct information blanks for convenience.	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 : Associated Electric COOP	dual point level		needs to be replaced
Address : 41 St. Jude Industrial Park	continuous level	(2) ON/OFF INDICATOR	
City : Marston State : MO Zip: 63866	density	🔀 okay	needs cleaning
PRODUCT	neutron backscatter		needs to be replaced
Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12034F	strip source	🔀 okay	needs to be replaced
Location :Bag House Hopper Tag :	insertion source	(4) SHUTTER OPERATION	
Isotope : 🛛 Cs-137 🚺 Co-60	🗌 analyzer	🔀 okay	needs cleaning
Am-241-Be	STATUS	VERIFIED BY:	needs lubrication
Activity : 200mCi Assay:10/80	🔲 in use	survey	stuck on
SURVEY METER (req'd for leak test certification only)	⊠ mounted but not in use	🔀 response	stuck off
Brand : RadEye	unlocked		missing
Model : B20 Serial: 30782	🔀 locked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14 Backgnd : .01	in storage	🔀 okay	mild to moderate corrosion
		severe corrosion	needs to be replaced
□ Not performed			
Measured >0.005 uCi CONTACT RSO	COMMENTS:		
PERFORMED BY	Units to be ship to Sugar Land,	Texas for custody transfer.	
Company : Thermo Fisher Name John Bandle			
Date : 2/4/15 Signature: 1997 721			
Thermo Fisher Scientific Instructions: This fo	rm is/may be used to record the visual inspectior	and leak testing of a nuclear gauge. A	This record is important and must be kept on
1410 Gillingham Lane When this form is u Sugar Land, Texas 77478 complete the inspec	y label may be placed over the user and produc sed for leak test certification, the survey meter in tion, check all of the blanks that apply. Use com ctive actions as needed.	nformation must be completed. As you	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 S	afety Check
Leak Test Certificate	APPLICATION	(1) NAMEPLATE	
USER	🛛 point level	🔀 okay	needs cleaning
Company : Associated Electric COOP	dual point level		needs to be replaced
Address : 41 St. Jude Industrial Park	continuous level	(2) ON/OFF INDICATOR	
City : Marston State : MO Zip: 63866	density	🔀 okay	needs cleaning
PRODUCT	neutron backscatter		needs to be replaced
Brand : Kay-Ray	weigh scale	(3) SHUTTER LOCK	
Model : 7080 Serial: 12035F Location :Bag House Hopper	strip source	🔀 okay	needs to be replaced
Tag :	insertion source	(4) SHUTTER OPERATION	
Isotope : 🔀 Cs-137 🗌 Co-60	analyzer	🔀 okay	needs cleaning
Am-241-Be	STATUS	VERIFIED BY:	needs lubrication
Activity : 200mCi Assay: 10/80	🗌 in use	survey	stuck on
SURVEY METER (req'd for leak test certification only)	⊠ mounted but not in use	X response	stuck off
Brand RadEye	unlocked		missing
Model : B20 Serial: 30782	Iocked off	(5) OVERALL CONDITION	
Cal. Date : 4/28/14	in storage		
Backgnd :.01		🔀 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 to be ship to Sugar Land,	Texas for custody transfer.	
Company : Thermo Fisher Name / John Bandle		,	
Date : 2/4/15 Signature:)		
Thermo Fisher Scientific Instructions: This for	rm is/may be used to record the visual inspection	and leak testing of a nuclear gauge. A	This record is important and must be kept on
1410 Gillingham Lane/preprinted inventorySugar Land, Texas 77478complete the inspect	I label may be placed over the user and product sed for leak test certification, the survey meter in tion, check all of the blanks that apply. Use com- ctive actions as needed.	t information blanks for convenience.	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 : Associated Electric COOP	dual point level		needs to be replaced		
Address : 41 St. Jude Industrial Park	continuous level	(2) ON/OFF INDICATOR			
City : Marston	density	🔀 okay	needs cleaning		
State : MO Zip: 63866	neutron backscatter	t man the	needs to be replaced		
	weigh scale	(3) SHUTTER LOCK			
Brand : Kay-Ray Model : 7080 Serial: 12036F					
Location :Bag House Hopper	strip source	🔀 okay	needs to be replaced		
Tag :	insertion source	(4) SHUTTER OPERATION			
Isotope : Cs-137 Co-60	analyzer 🗌	🖂 okay	needs cleaning		
Am-241-Be	STATUS	VERIFIED BY:	needs lubrication		
Activity : 200mCi Assay:11/80	in use	survey	stuck on		
SURVEY METER (reg'd for leak test certification only)	🔀 mounted but not in use	🔀 response	stuck off		
Brand : RadEye	unlocked		missing		
Model : B20 Serial: 30782	locked off	(5) OVERALL CONDITION			
Cal. Date : 4/28/14	in storage	🔀 okay	mild to moderate corrosion		
Backgnd :.01	g.	severe corrosion	needs to be replaced		
LEAK TEST		Severe conosion			
☐ Not performed					
Measured >0.005 uCi CONTACT RSO	COMMENTS:				
PERFORMED BY $()$	Units to be ship to Sugar Land, Texas for custody transfer.				
Company : Thermo Fisher Name : John/Bandle)				
Date : 2/4/15 Signature:					
Thermo Fisher Scientific 1410 Gillingham Lane					
Sugar Land, Texas 77478 complete the inspection, check all of the blanks that apply. Use comments to document the findings and/or 800-437-7979 or 713-272-0404 corrective actions as needed.					



Thermo Fisher Scientific

Environmental & Process Monitoring 1410 Gillingham Lane Sugar Land, TX 77478 (800) 437-7979 fax (713) 272-2273 www.thermoscientific.com



ACKNOWLEDGMENT OF RECEIPT OF RADIOACTIVE MATERIAL

February 12, 2015

Tom Halstead Associated Electric Cooperative, Inc. 41 St. Jude Industrial Park Marston, MO 63866

RMA Number 32704

Attention Tom Halstead:

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	7080	12033A	Cs-137	12033A	200	mCi	10/1/1980
KAY-RAY/SENSALL	7080	12033B	Cs-137	12033B	200	mCi	1/1/1978
KAY-RAY/SENSALL	7080	12033C	Cs-137	12033C	200	mCi	1/1/1978
KAY-RAY/SENSALL	7080	12033D	Cs-137	12033D	200	mCi	1/1/1978
KAY-RAY/SENSALL	7080	12033E	Cs-137	12033E	200	mCi	1/1/1978
KAY-RAY/SENSALL	7080	12033F	Cs-137	12033F	200	mCi	1/1/1978
KAY-RAY/SENSALL	7080	12034A	Cs-137	12034A	200	mCi	11/1/1980
KAY-RAY/SENSALL	7080	12034B	Cs-137	12034B	200	mCi	11/1/1980
KAY-RAY/SENSALL	7080	12034C	Cs-137	12034C	200	mCi	10/1/1980
KAY-RAY/SENSALL	7080	12034D	Cs-137	12034D	200	mCi	11/1/1980
KAY-RAY/SENSALL	7080	12034E	Cs-137	12034E	200	mCi	10/1/1980
KAY-RAY/SENSALL	7080	12034F	Cs-137	12034F	200	mCi	10/1/1980
KAY-RAY/SENSALL	7080	12035A	Cs-137	12035A	200	mCi	10/1/1980
KAY-RAY/SENSALL	7080	12035B	Cs-137	12035B	200	mCi	11/1/1980

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Acknowledgment for RMA Number 32704

Page 2 of 2 Thermo

Manufacturer	Model	Serial	Isotope	Source	Activity	Units	Assay	
KAY-RAY/SENSALL	7080	12035C	Cs-137	12035C	200	mCi	11/1/1980	
KAY-RAY/SENSALL	7080	12035D	Cs-137	12035D	200	mCi	11/1/1980	
KAY-RAY/SENSALL	7080	12035E	Cs-137	12035E	200	mCi	10/1/1980	
KAY-RAY/SENSALL	7080	12035F	Cs-137	12035F	200	mCi	10/1/1980	
KAY-RAY/SENSALL	7080	12036A	Cs-137	12036A	200	mCi	11/1/1980	
KAY-RAY/SENSALL	7080	12036B	Cs-137	12036B	200	mCi	11/1/1980	
KAY-RAY/SENSALL	7080	12036C	Cs-137	12036C	200	mCi	11/1/1980	
KAY-RAY/SENSALL	7080	12036D	Cs-137	12036D	200	mCi	11/1/1980	
KAY-RAY/SENSALL	7080	12036E	Cs-137	12036E	200	mCi	11/1/1980	
KAY-RAY/SENSALL	7080	12036F	Cs-137	12036F	200	mCi	11/1/1980	
Summary (24 sources)					4800	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

[any hinde Danny Vicente

Nuclear Services Specialist

THOMAS C HAISTEAD - RSO Associated Electric Coop. INC PO Box 154 NEW MADRIN, MO 63869





RECEIVED JAN 1 5 2016

Ms. Patricia Pelke Chief of Material Licensing BRANCH Division of Nuclear Materials Safety U.S. NRC RegION TIL 2443 WARRENVille Road, Suite 210 Liste, 16 60532-4351