

Hammond, Michelle

From: David H. Brown [DHBrown@gvea.com]
Sent: Thursday, September 05, 2013 5:42 PM
To: Hammond, Michelle
Cc: David H. Brown
Subject: FW: REQUEST FOR ADDITIONAL INFORMATION
Attachments: HEALY-NUREG 1556 V4 APP_D 7-11.pdf; unit 1 Kay-Ray_Sensall SSD INSTALL SURVEY 28JAN1993001.pdf; GENERAL LICENSEE REPORT.pdf

PUBLIC

- Immediate Release
 Normal Release

NON-PUBLIC

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

Reviewer: [Signature] Date: 9/6/13

License No.: 50-29058-01
Docket No.: 030-33010
Control No.: 580239

Dear Mr. Brown:

This is in reference to your renewal application dated March 20, 2013 regarding Nuclear Regulatory Commission License No. 50-29058-01. In order to continue our review, we need the following additional information:

- 1) Please confirm the authorized use location. Your license currently lists: **2.5 mile Usibelli Spur Road, Healy, Alaska**; however, in Section 3 of your application dated March 20, 2013, it says "2.5 mile Healy Spur Road". Please confirm.
Please list address as: "**2.5 mile Healy Spur Road, Healy, Alaska**" This road leads to the Usibelli Coal Mine and is unofficially referred to as the Usibelli spur road, but it appears on maps as the Healy Spur Road.
- 2) Please complete the application checklist in NUREG 1556 Volume 4 Appendix D. Specifically Items 7 – 11. Find the checklist on the link below:

<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/v4/sr1556v4.pdf>

Checklist is attached in file named Healy- NUREG 1556 V4 D7-11

- 3) Indicate how you will ensure compliance with 10 CFR 20.1501, O&E procedures, and shutter checks **WITHOUT** having a survey instrument.
The survey results from the installation of these SSD's is attached in file "unit 1 Kay-Ray Sensall SSD INSTALL SURVEY 28 Jan1993". It shows exposure limits are lower than what would require personnel monitoring devices. I will also contact the manufacturer of the device to get a prospective evaluation of the device for routine activities such as the shutter check.
- 4) You requested 2 additional sources that are not currently on your license. Cs-137 (20mCi) and Am-241 (300mCi) model number Coal Scan 2500.
Are these Generally Licensed devices, or do you wish to add them to your specific license??? Do you have an SS&D (sealed source and device registry) for these sources, if so, please provide. This is a generally listed device with 2 sources in a single sealed housing. We do not wish to add it to our specific license. The General licensee report which shows all sources at our facility is attached. It includes both general license devices and specific license devices.

We will continue our review upon receipt of this information. Please reply to my attention at the Region IV Office and refer to Mail Control No. 580239. Please respond to this e-mail by **August 26, 2013**. You may reply via e-mail as long as the response is attached in a PDF format or by fax to 817-200-1188.

Please don't hesitate to contact me if you have any questions (*I will be on travel, so e-mail is best*)

Best Regards,

Michelle M. Hammond, M.Sc.
Health Physicist
Region IV-Division of Nuclear Materials Safety, Branch B
office) 817-200-1127
fax) 817-200-1188

Table B.2 Items 7 Through 11: Training and Experience, Facilities and Equipment, Radiation Safety Program, and Waste Disposal

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
7. Individual(s) Responsible For Radiation Safety Program And Their Training And Experience	Before obtaining licensed materials, the proposed RSO will have successfully completed the training described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer" in NUREG-1556, Vol. 4, dated October 1998.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.1 Radiation Safety Officer Name: _____ David Brown	<p style="text-align: center;">AND</p> Before being named as the RSO, future RSOs will have successfully completed the training described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer" in NUREG-1556, Vol. 4, dated October 1998. Within 30 days of naming a new RSO, we will submit the new RSO's name to NRC to include in our license.		
7. Individual(s) Responsible For Radiation Safety Program And Their Training And Experience 7.2 Authorized Users	<p>PROPOSED AUTHORIZED USERS:</p> Before using licensed materials, authorized users will have successfully completed the training described in Criteria in the section entitled, "Authorized Users" in NUREG-1556, Vol. 4, dated October 1998.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Training for Individuals Who in the Course of Employment are Likely to Receive Occupational Doses of Radiation in Excess of 1 mSv (100 mrem) in a Year (Occupationally Exposed Workers) and Ancillary Personnel	The applicant is <i>not</i> required to, and should not, submit is training program, for individuals who in the course of employment are likely to receive occupational doses of radiation in excess of 1 mSv (100 mrem) in a year (occupationally exposed workers) and ancillary personnel, to the NRC for review during the licensing phase.	Need Not Be Submitted with Application	

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Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
9. Facilities and Equipment	We will ensure that the location of each fixed gauge meets the Criteria in the section entitled "Facilities and Equipment" in NUREG-1556, Vol. 4, dated October 1998.	<input checked="" type="checkbox"/>	[]
10. Radiation Safety Program - Audit Program	The applicant is <i>not</i> required to, and should not, submit its audit program to the NRC for review during the licensing phase.	Need Not Be Submitted with Application	
10. Radiation Safety Program - Survey Instruments	<p>Surveys pursuant to 10 CFR 20.1501 will be performed by a person specifically authorized by the NRC or an Agreement State to perform these surveys.</p> <p style="text-align: center;">OR</p> <p>We will use instruments that meet the Criteria in the section entitled "Radiation Safety Program - Instruments," in NUREG-1556, Vol. 4, dated August 1998, and <i>one</i> of the following:</p> <p style="padding-left: 40px;">Each survey meter will be calibrated by the manufacturer or other person authorized by the NRC or an Agreement State to perform survey meter calibrations.</p> <p style="text-align: center;">OR</p> <p>We will implement the model survey instrument calibration program in Appendix I to NUREG-1556, Vol. 4, dated October 1998.</p>	<input checked="" type="checkbox"/>	[]
10. Radiation Safety Program - Material Receipt and Accountability	Physical inventories will be conducted at intervals not to exceed 6 months or at other intervals approved by the NRC, to account for all sealed sources and devices received and possessed under the license.	<input checked="" type="checkbox"/>	[]
10. Radiation Safety Program - Occupational Dosimetry	We will perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20 or we will provide dosimetry that meets the Criteria in the section entitled "Radiation Safety Program - Occupational Dosimetry," in NUREG-1556, Vol. 4, dated October 1998.	<input checked="" type="checkbox"/>	[]

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
10. Radiation Safety Program - Public Dose	The applicant is not required to submit a response to the public dose section during the licensing phase. However, during NRC inspections, licensees must be able to provide documentation demonstrating, by measurement or calculation, that the total effective dose equivalent to the individual likely to receive the highest dose from the licensed operation does not exceed the annual limit for individual members of the public.	Need Not Be Submitted with Application	
10. Radiation Safety Program - Operating & Emergency Procedures	<p>If the gauge meets one or more of the safety conditions specified in "Discussion," in the section entitled "Radiation Safety Program-Operating Emergency Procedures," in NUREG 1556, Vol. 4, dated August 1998 state the following:</p> <p>Operating and emergency procedures will be developed, implemented, maintained, and distributed, and will meet the Criteria in the section entitled "Radiation Safety Program - Operating and Emergency Procedures," in NUREG-1556, Vol. 4, dated August 1998.</p> <p>For each gauge requested that does not meet one or more of the safety conditions specified in "Discussion," in the section entitled "Radiation Safety Program-Operating Emergency Procedures," in NUREG 1556, Vol. 4, dated August 1998 provide your operating, emergency and lock-out (if applicable) procedures to NRC for review.</p>	<p><input checked="" type="checkbox"/></p> <p><input type="checkbox"/> Procedures Attached</p>	<p><input type="checkbox"/></p>
10. Radiation Safety Program - Leak Test	<p>Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Device Registration Certificate. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions.</p> <p style="text-align: center;">OR</p> <p>We will implement the model leak test program published in Appendix M to NUREG-1556, Vol. 4, dated October 1998.</p>	<p><input checked="" type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p>

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Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
10. Radiation Safety Program - Maintenance	<p><u>ROUTINE MAINTENANCE</u> We will implement and maintain procedures for routine maintenance of our fixed gauges according to each manufacturer's or distributor's written recommendations and instructions.</p> <p><u>NON-ROUTINE MAINTENANCE OPERATIONS</u> The gauge manufacturer, distributor or other person authorized by NRC or an Agreement State will perform non-routine operations such as installation, initial radiation survey, repair, and maintenance of components related to the radiological safety of the gauge, gauge relocation, replacement, and disposal of sealed sources, alignment, or removal of a gauge from service.</p>	<input checked="" type="checkbox"/>	<p style="text-align: center;">[]</p> <p>[] The information listed in Appendix N supporting a request to perform non-routine operations in-house is attached</p>
10. Radiation Safety Program - Transportation	The applicant is <i>not</i> required to submit its response to transportation during the licensing process; this issue will be reviewed during inspection. However, the licensee should develop, implement, and maintain transportation procedures according to NRC and DOT regulations.	Need Not Be Submitted with Application	
10. Radiation Safety Program - Fixed Gauges Used at Temporary Job Sites	<p>This is not applicable to our program. We will not use fixed gauges at temporary job sites.</p> <p style="text-align: center;">OR</p> <p>We will develop, implement, maintain and distribute procedures that meet the Criteria in the section entitled "Radiation Safety Program - Fixed Gauges Used at Temporary Job Sites" in NUREG-1556, Vol. 4, dated October 1998.</p>	<p style="text-align: center;"><input checked="" type="checkbox"/> Not Applicable</p> <p style="text-align: center;">[]</p>	<p style="text-align: center;">[]</p>
10. Radiation Safety Program - Minimization of Contamination	The applicant is not required to submit a response to minimization of contamination if the applicant's responses meet the criteria for the following sections: Radioactive Material - Sealed Sources and Devices, Facilities and Equipment, Radiation Safety Program - Operating and Emergency Procedures, Radiation Safety Program - Leak Testing, and Waste Management - Gauge Transfer and Disposal.	Need Not Be Submitted with Application	

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11. Waste Management - Gauge Disposal & Transfer	The applicant is not required to submit a response to waste management during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation protection program.	Need Not Be Submitted with Application	

User Golden Valley Electric

Kay-Ray/Sensall No. 7838-041

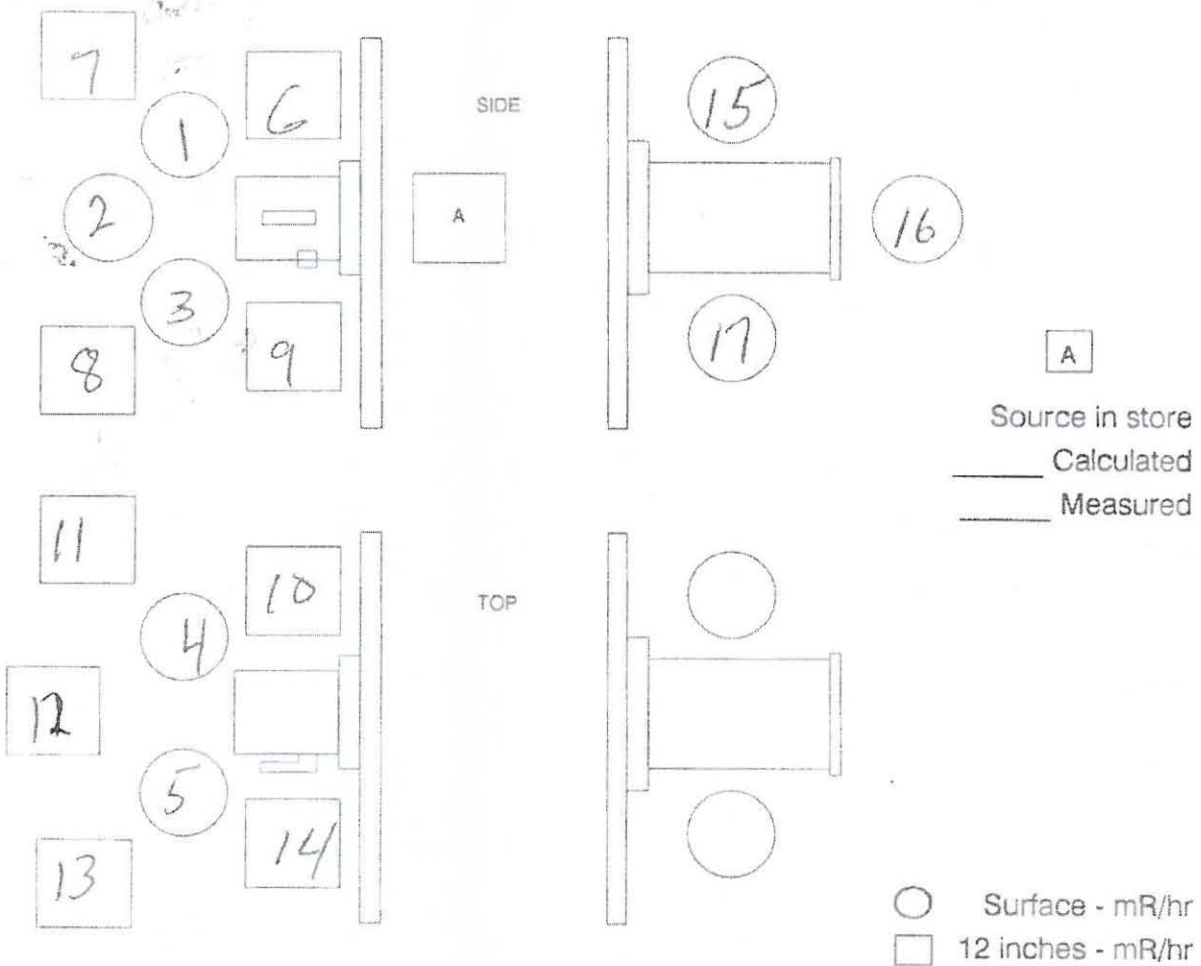
Location Coal Down Comers

Date 1-28-93

Source model no. see sheet S/N see sheet

Activity see file

Source in measure unless stated otherwise.



Customer - White
FES - Yellow

Performed by Paul B. Hartman
May 90

ROSEMOUNT®

Measurement
Control
Analytical
Valves

Kay-Ray/Sensall, Inc.
1400 Business Center Drive
Mt. Prospect, IL 60056
Tel (708) 803-5100
Telex 62970165
Fax (708) 803-5466

Start-up Information

User Golden Valley Electric Kay-Ray/Sensall, Inc. No. 7838-041
Location Healy, Alaska Date 1-29-93
License Type: Specific General Serial Nos. See File

- ✓ 1. Perform LEAK TEST on SOURCE UNIT; follow procedure with kit.
- ✓ 2. Check SHUTTER OPERATION and RADIATION TAGS.
- ✓ 3. Conduct RADIATION SURVEY using appropriate survey form.
4. If applicable, evaluate potential personnel exposure inside the vessel at source location with the source in the STORE position. Calculate worst case radiation level N/A mR/hr. Calculate worst case radiation exposure N/A Rems/yr. pipe for coal downloader
- ✓ 5. Evaluate potential personnel exposure in area at installation. Under ordinary circumstances, this exposure must not exceed 0.5 Rems/yr. To determine exposure, measure radiation level at normal operator location, multiply this reading by hours per week times 52 weeks. Assumptions: a) nearest operator location in feet; b) number of hours per week at this location; c) radiation level in mR/hr at this location. 0.5 Rems/yr.
- ✓ 6. Discuss with Customer the responsibilities involved with the specific licensing arrangement of his application, if applicable. Review the handout or instruction manual section regarding the Customer responsibilities under the general licensing arrangement.

Kay-Ray/Sensall, Inc. Rep. Paul Yutzya
Customer Rep. Paul Morgan
Customer Phone 907-683-2254

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User Golden Valley Electric

Kay-Ray/Sensall No. 7838-041

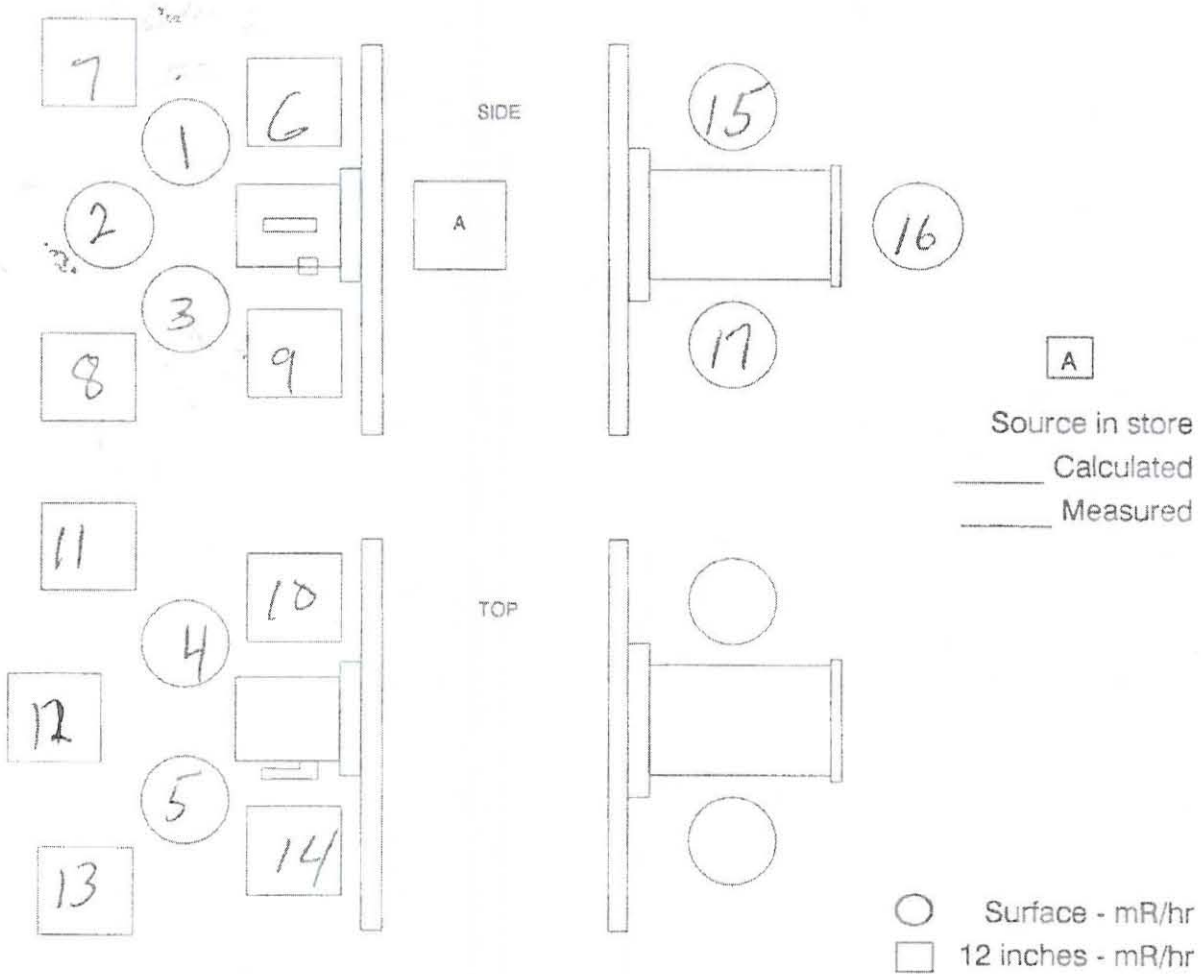
Location Coal Down Comers

Date 1-28-93

Source model no. see sheet S/N see sheet

Activity see file

Source in measure unless stated otherwise.



Customer - White
FES - Yellow

Performed by Paul B. Hartigan
May 90

ROSEMOUNTMeasurement
Control
Analytical
ValvesKay-Ray/Sensall, Inc.
1400 Business Center Drive
Mt Prospect, IL 60056
Tel (708) 803-5100
Telex 62970165
Fax (708) 803-5466**Start-up Information**

User Golden Valley Electric Kay-Ray/Sensall, Inc. No. 7838-041
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 License Type: Specific General Serial Nos. See File

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- ✓ 3. Conduct RADIATION SURVEY using appropriate survey form.
4. If applicable, evaluate potential personnel exposure inside the vessel at source location with the source in the STORE position. Calculate worst case radiation level N/A mR/hr. Calculate worst case radiation exposure N/A Rems/yr. pipe for coal downloader
- ✓ 5. Evaluate potential personnel exposure in area at installation. Under ordinary circumstances, this exposure must not exceed 0.5 Rems/yr. To determine exposure, measure radiation level at normal operator location, multiply this reading by hours per week times 52 weeks. Assumptions: a) nearest operator location in feet; b) number of hours per week at this location; c) radiation level in mR/hr at this location. 0.5 Rems/yr.
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Kay-Ray/Sensall, Inc. Rep. Paul Yutzya
 Customer Rep. Paul Morgan
 Customer Phone 907-683-2254

Quick Select
General Licensee Report

Recipient Code	Name	Responsible Person	Mailing Address
646320	GOLDEN VALLEY ELECTRIC ASSOCIATION	SCOTT MILLIKEN DAVID BROWN	2.5 MILE USIBELLI SPUR ROAD
<u>Location of Use:</u>		Title: CURRENT SAFETY OFFICER	HEALY AK 99743
2.5 MILE USIBELLI SPUR ROAD HEALY AK 99743		Phone No.: (907) 683-2254 (907) 683-8330	

<u>Manufacturer License Number</u>		<u>Manufacturer</u>				
L01105		TN TECHNOLOGIES, INC.				
Devices						
<u>Device Key</u>	<u>Model</u>	<u>Manufacturer</u>	<u>Model No</u>	<u>Serial No</u>	<u>Isotope</u>	<u>Converted Amount in mCi or g</u>
546854		TN TECHNOLOGIES, INC.	5201	B2598	CS137	50.000000000

<u>Manufacturer License Number</u>		<u>Manufacturer</u>				
IL-01010-02		KAY-RAY/SENSALL, INC.				
Devices						
<u>Device Key</u>	<u>Model</u>	<u>Manufacturer</u>	<u>Model No</u>	<u>Serial No</u>	<u>Isotope</u>	<u>Converted Amount in mCi or g</u>
689662		KAY-RAY/SENSALL, INC.	7062BP	S93A1801	CS137	50.000000000
689663		KAY-RAY/SENSALL, INC.	7062BP	S93A1802	CS137	50.000000000
689664		KAY-RAY/SENSALL, INC.	7062BP	S93A1803	CS137	50.000000000
689665		KAY-RAY/SENSALL, INC.	7062BP	S93A1804	CS137	50.000000000

<u>Manufacturer License Number</u>		<u>Manufacturer</u>				
GA1299-2G		Scan Technologies, Inc.				
Devices						
<u>Device Key</u>	<u>Model</u>	<u>Manufacturer</u>	<u>Model No</u>	<u>Serial No</u>	<u>Isotope</u>	<u>Converted Amount in mCi or g</u>
689666		SCAN TECHNOLOGIES, INC.	2500	80212	CS137	20.000000000
689666		SCAN TECHNOLOGIES, INC.	2500	80212	AM241	300.000000000

<u>Manufacturer License Number</u>		<u>Manufacturer</u>				
IL-01010-02		KAY-RAY/SENSALL, INC.				
Devices						
<u>Device Key</u>	<u>Model</u>	<u>Manufacturer</u>	<u>Model No</u>	<u>Serial No</u>	<u>Isotope</u>	<u>Converted Amount in mCi or g</u>
689667		KAY-RAY/SENSALL, INC.	7062BP	S97F2501	CS137	50.000000000
715847		KAY-RAY/SENSALL, INC.	7062BP	S97F2502	CS137	50.000000000

07/13/06 THU 15:14 FAX 3014245224 Received 07/13/2006 11:18AM in 06:40 on line [0] for ps_HKY_CIR * 2/16