# Cook, Jackie

From: Sent:

Jessica Drye [jdrye@achdidaho.org] Friday, October 21, 2011 10:18 AM

To:

Cook, Jackie

Subject:

License: 11-27092-01, Docket: 030-32249, Control: 574996

Attachments:

License 11-27092-01 renewal 2011.pdf

License: 11-27092-01 Docket: 030-32249 Control: 574996

Re: Ada County Highway District deficiencies

# Dear Jackie,

Attached you will find a pdf file with Ada County's response to the deficiencies. I've attached a NRC 313 form, 3 page application for materials license from the NRC 313 form, and 5 pages of our Radiation Safety Program. Below you will find where to reference the 3 deficiencies:

- 1. Storing gauges at temporary job sites: Section 3 on the NRC 313 form and the application for materials license.
- 2. Training for RSO statement: Section 7 on the application for materials license.
- 3. Security requirements for portable gauges: Section 10 on the application for materials license and section 6 under ACHD's Radiation Safety Program, ACHD transportation.

Please let me know if you have any questions or concerns about my response.

# Thank you!

Jessica Drye, RSO Materials Coordinator Construction Services 208.387.6310 - office 208.860.6601 - cell 208.387.6289 - fax



"Committed to Service"

From: Cook, Jackie [mailto:Jackie.Cook@nrc.gov]
Sent: Thursday, October 20, 2011 1:52 PM

**To:** Jessica Drye

Subject: ACT: E-MAIL DEFICIENCY LETTER FOR ADA COUNTY HIGHWAY DISTRICT

Importance: High

Ms. Jessica S. Drye:

Attached you will find an e-mail deficiency letter for Ada County Highway District's renewal application. Please respond to this e-mail by **Monday**, **October 24**, **2011**.

Thanking you in advanced for your prompt response.

Please don't hesitate to contact me at your convenience if you have any questions.

Sincerely,

Jacqueline "Jackie" D. Cook
Senior Health Physicist
Division of Nuclear Materials Safety
Nuclear Materials Safety Branch B
612 E. Lamar Blvd., Suite 400
Arlington, TX 76011
817-860-8132 (office)/817-860-8263 (fax)
e-mail address: Jackie.Cook@nrc.gov

NRC FORM 313

U.S. NUCLEAR REGULATORY COMMISSION

(3-2009) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40

#### •

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 3/31/2012

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that edequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records and FOIA/Privacy Services 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, (3150-0120), 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.

APPLICATION FOR MATERIALS LICENSE	or by Internet e-mail to Infocollects.resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), 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.	
SEND TWO COPIES OF THE ENTIRE COMPLETED A	JIDE FOR DETAILED INSTRICTIONS FOR COMPLETING APPLICATION. PPLICATION TO THE NRC OFFICE SPECIFIED BELOW.	
APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:	IF YOU ARE LOCATED IN:	
OFFICE OF FEDERAL & STATE MATERIALS AND ENVIRONMENTAL MANAGEMENT PROGRAMS DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20535-0001	ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:	
ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:	MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE. IL 60532-4352	
IF YOU ARE LOCATED IN:	2.022, 12.00012	
ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:	ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAH, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:	
LICENSING ASSISTANCE TEAM DIVISION OF NUCLEAR MATERIALS SAFETY U.S. NUCLEAR REGULATORY COMMISSION, REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19405-1415	NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 612 E. LAMAR BOULEVARD, SUITE 400 ARLINGTON, TX 76011-4125	
PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR MATERIAL IN STATES SUBJECT TO U.S.NUCLEAR REGULATORY COMMISSION JURISDICT	REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED IONS.	
THIS IS AN APPLICATION FOR (Check appropriate item)	2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)	
A. NEW LICENSE	Ada County Highway	
B. AMENDMENT TO LICENSE NUMBER	Attn: Jessica Drye	
	3775 Adams Street	
c. RENEWAL OF LICENSE NUMBER 11-27092-01	Garden City, ID 83714	
	Garden Citters to 00/14	
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION	
	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION	
3775 Adams Street		
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3775 Adams Street	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION  Jessica Drye	
3775 Adams Street Garden City, ID 83714  Temporary job sites in US where NRC has jurisdiction  SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION AND SCOPE OF INFORM	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION  Jessica Drye  TELEPHONE NUMBER  (208) 387-6310	
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Rebecca W. Arnold, President John S. Franden, Vice President Carol A. McKee, Commissioner Sara M. Baker, Commissioner David L. Case, Commissioner

## **APPLICATION FOR MATERIALS LICENSE – NRC Form 313**

License Number: 11-27092-01

1. APPLICATION TYPE: Renewal of License 11-27092-01

# 2. NAME/MAILING ADDRESS

Ada County Highway District Jessica Drye, RSO 3775 Adams Street Garden City, ID 83714

#### 3. ADDRESS WHERE LICENSE WILL BE USED OR POSSESSED

- 1. 3775 Adams Street, Garden City, ID, 83714
- 2. Temporary job sites anywhere in the United States where NRC maintains jurisdiction.

# 4. CONTACT PERSON AND PHONE NUMBER

1. Jessica Drye - (208)-387-6310

#### 5. RADIOACTIVE MATERIAL

A	A. Element/Mass Number	B. Chemical and/or Physical Form	C. Max amount that will be possessed at one time	Manufacture/Model/ Number of sources
1.	Cs-137	Sealed source Troxler Dwg. 102112	No single source to exceed 8 mCi	Troxler / 3440 / 13
2.	Am-241:Be	Sealed source Troxler Dwg. 102451	No single source to exceed 40 mCi	Troxler / 3440 / 13
3.	Cs-137	Sealed source Troxler Dwg. 102112	No single source to exceed 10 mCi	Campbell Pacific Nuclear / MC-3 / 1
4.	Am-241:Be	Sealed source Troxler Dwg. 102451	No single source to exceed 50 mCi	Campbell Pacific Nuclear / MC-3 / 1
5.	Cs-137	Sealed source Troxler Dwg. 102112	No single source to exceed 8 mCi	Troxler / 4640B / 1

# 6. PURPOSE(S) FOR WHICH LICENSE MATERIAL WILL BE USED (please reference table above)

- **1.** To be used in Troxler model 3400 series gauges for measurement of physical properties of materials.
- 2. To be used in Troxler model 3400 series gauges for measurement of physical properties of
- **3.** To be used in Campbell Pacific Nuclear model MC series gauges for measurement of physical properties of materials.

- **4.** To be used in Campbell Pacific Nuclear model MC series gauges for measurement of physical properties of materials.
- **5.** To be used in Troxler model 4640 series gauges for measurement of physical properties of materials.

#### 7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR EXPERIENCE

Before obtaining licensed materials, the proposed RSO will have successfully completed one of the training courses described in Criteria in the section entitled 'Individual(s) Responsible for Radiation Safety Program and Their Training Experience — Radiation Safety Officer' in NUREG-1556, Vol. 1, Rev. 1, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Portable Gauge Licenses, 'dated November 2001."

1. Individual: Jessica Susan Drye, Radiation Safety Officer

2. Training: March 28, 2008 Radiation Safety Officer Training Class and HAZMAT

Certification conducted by Troxler Electronic Laboratories,

inc.

May 28, 2009 DOT HAZMAT General Awareness, Safety Direct

April 22, 2011 HAZMAT refresher, Troxler Electronic Laboratories, Inc.

#### 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

Only those employees of the Ada County Highway District (ACHD) who have met the following training and operational requirements may use the Distric's nuclear density gauges.

- 1. Successful completion of a gauge manufacture's Radiation Safety Training course or similar course meeting the criteria in NUREG-1556, Vol. 1, Rev. 1, 2001.
- 2. The individual will read ACHD's NRC material license and the operating & emergency procedures along with the gauge manufacture's manual.
- 3. On the job training in operation of the nuclear density gauge will be conducted by the RSO and/or an experienced operator.
- 4. Yearly refresher training will be conducted by the RSO, a gauge manufacturer representative, or other alternate course meeting the criteria in NUREG-1556, Vol. 1, Rev. 1, 2001.

#### 9. FACILITES AND EQUIPMENT

See ACHD's radiation safety program for further information.

- 1. Storage area and building security and key control.
- 2. "Caution-Radioactive Material" sign posted on storage area entry.
- 3. Minimum distance of 15' from nearest work station.
- 4. Maximum of 15 gauges stored at any one time.

#### 10. RADIATION SAFETY PROGRAM

See ACHD's radiation safety program for further information.

- 1. AUDIT PROGRAM: Conducted yearly by an authorized user.
- 2. TERMINATION OF ACTIVITIES: Currently operating.

- 3. SURVEY INSTRUMENTS: We will maintain a survey meter that meets the criteria in NUREG-1556, Vol. 1, Rev. 1, 2001 for use in the event of an incident involving the gauge. The survey meter will be calibrated annually and checked for functionality before use.
- 4. MATERIAL RECEIPT AND ACCOUNTABILITY: Records of receipt, transfer and disposal of gauges will be maintained for at least 3 years. Physical inventory of sealed sources will be conducted at intervals not to exceed 6 months.
- 5. OCCUPATIONAL DOSIMETRY: All ACHD employees authorized to use and transport gauges shall wear a personal dosimetry badge provided by an NVLAP accredited processor. Badges shall be exchanged every 3 months for monitoring status. Records of current radiation exposure reports on all authorized employees are reviewed and maintained by the RSO.
- 6. PUBLIC DOSE: A public dose survey reading report along with dosimetry badge monitoring outside the storage area will be completed and kept on file.
- 7. OPERATING AND EMERGENCY PROCEDURES: Operating and emergency procedures will be developed, implemented, and maintained, and will meet the criteria in the section entitled 'Radiation Safety Program-Operating and Emergency Procedures' in NUREG-1556, Vol. 1, Rev. 1, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Portable Gauge Licenses,' dated November 2001.
- 8. LEAK TEST: Leak tests will be performed at intervals not to exceed one (1) year. Leak test samples shall be taken by the RSO or authorized gauge user using a leak test kit provided by an NRC approved agency. Leak test kits shall then be returned to the provider for evaluation and reporting. All results shall be kept on file.
- 9. MAINTENANCE: ACHD will implement and maintain procedures for routine maintenance of our gauges accordingly to each manufacturer's recommendations and instructions. ACHD will send the gauge to the manufacture for all non-routine maintenance that requires detaching the source or source rod from the gauge.
- 10. TRANSPORTATION: All transporting of gauges in ACHD vehicles shall be properly labeled, blocked, braced, secured with two independent physical controls, be away from the driver and be in compliance will the US Department of Transportation (DOT).

# 11. WASTE MANAGEMENT - GAUGE DISPOSAL AND TRANSFER

Licensed materials shall be disposed of in accordance with NRC requirements by transfer to an authorized recipient. Appropriate records shall be maintained.

Jessica Drye, Radiation Safety Officer Ada County Highway District 3775 Adams Street Garden City, ID 83714 208-387-6310 office 208-860-6604 cell jdrye@achdidaho.org

## License #: 11-27092-01

# ADA COUNTY HIGHWAY DISTRICT PORTABLE NUCLEAR GAUGE OPERATING AND EMERGENCY PROCEDURES

### **OPERATING PROCEDURES**

- 1. Training requirements: Only personnel who have successfully completed a Portable Nuclear Gauge training course and reviewed these Operating Procedures are authorized to use these gauges. A list of authorized users will be maintained with each gauge.
- 2. Personnel Dosimetry: A personnel monitoring device (TLD badge) must be worn whenever the gauge is being transported or operated. Badges will be worn only by the person to whom they are assigned. Badges will be worn on the trunk of the body. When not using the gauge, the badges are to be kept in a low radiation area. Badges must never be stored with the gauge.
- 3. Sealed Source Leak Testing: Each source must be tested for leakage at intervals not to exceed twelve months. The tests will be conducted by the RSO or his designated representative using a wipe test kit and the recommended test kit procedures. All records of leak test results will be maintained in terms of microcuries. A copy of the leak test results will be kept on file for a period of not less than three years.
- 4. Gauge storage: The gauge will be stored in the locked storage area. The storage area will be posted with a "CAUTION RADIOACTIVE MATERIAL" sign, a Document Location Notice, and a Radiological Emergency Notification form (copy attached). Only the gauge operator(s) and the radiation safety officer (RSO) will have access to the storage area keys. A Nuclear Densometer Rotation Log will be kept noting where each gauge is located and the responsible gauge operator when a gauge is checked out.
- **5. Gauge Inventory:** An inventory of all gauges must be made at intervals not to exceed six months. The RSO or his designated representative will physically inspect each gauge possessed by the licensee and report their findings in the Source Inventory form. The location of any gauges which cannot be physically inventoried will be noted on the form (e.g., gauge at manufacturer for recalibration, etc.).
- 6. Transporting procedure: The receiving, transporting (in a company or private vehicle), and shipping of Portable Nuclear Gauges must be in compliance with all applicable requirements of the U. S. Department of Transportation (DOT) and the Licensing Agency.

License #: 11-27092-01

Personnel must have completed a DOT hazardous material (HAZMAT) training course prior to receiving, transporting or shipping portable nuclear gauges. Refresher training is required at least every three years.

## Receiving procedure:

Sources will be inspected by the radiation safety officer (RSO) or his authorized representative upon receiving the shipment and prior to use. This inspection must be made within three hours if received during normal working hours, or within three hours of the start of the next working day if received after normal working hours. A Source Receiving Form will be prepared.

Any damage to the shipping container or contents must be noted. Damage which may affect the structural integrity or security of the shipping container will be cause for removal of the container from service until repaired. The container will be tagged as defective. Significant damage to the Portable Nuclear Gauge will be cause for a thorough radiation and contamination survey of the gauge. Abnormal readings will be cause for immediate isolation of the gauge and the prompt notification of the shipper, final delivering carrier, and the licensing authority.

Unless a current leak test report is supplied with the gauge, the RSO will leak test the sources in the gauge before placing the gauge in service.

# **Shipping Procedures:**

The RSO shall assure that the packaging, labeling, and shipping of Portable Nuclear Gauges is carried out in compliance with applicable regulations of the U. S. Department of Transportation as set forth in Chapter 49 Code of Federal Regulations. Gauges may be shipped only to receivers possessing a valid Federal or State Byproduct Materials License specific to the source(s) and gauge model being shipped. A copy of this license must be in the shipper's possession before shipment can be made.

The packaging of the gauge must meet the requirements for a "Type A" package. A "Shipper's Certification for Radioactive Materials" must be provided to the carrier along with emergency instructions and copies of the "Special Form" and "Type A" certifications. The package must have some form of seal to show that the package has not been opened during transport.

## **ACHD Transportation:**

The gauge must be carried in its transport case in the cargo area, not the passenger area of the vehicle. If transporting the gauge in an enclosed vehicle (car or van) is necessary, the transport case must be located as far from the occupied area as possible. The transport case must be properly marked as

License #: 11-27092-01

meeting "USA DOT - 7A type A" packaging requirements and labeled with Radioactive Yellow II diamond labels on at least two opposite sides.

The transport case must be locked and secured to the vehicle by two independent physical controls to prevent theft or loss by other means. When transporting in an open bed vehicle (pick-up), the transport case must be secured to the bed of the vehicle by a cable, padlock, and tie downs to prevent movement. When in an enclosed vehicle, the transport case must be fastened to the vehicle. An authorized gauge user must travel with the gauge whenever a gauge is transported in a ACHD vehicle. The key to the shipping case is to be retained by the authorized gauge user at all times. When the transport vehicle is not in use, the vehicle must be locked and the keys retained by the driver.

At all times during transport, ACHD personnel will have a folder in plain view containing the following:

- A properly completed Bill of Lading for each gauge being transported on the outside of the folder.
- A copy of the ACHD Radioactive Materials License and any updated amendments thereto.
- A copy of the ACHD Operating and Emergency Procedures.
- A letter or form of certification indicating that the individual using the gauge has been qualified in accordance with District procedures.

When the driver is at the vehicle controls, the folder must be within the operators reach while restrained by the vehicle's safety restraints. When the driver is not at the vehicle's controls, the shipping papers must be on the driver's seat or in a pouch on the door.

# All vehicle occupants must wear a personnel dosimetry badge.

- 7. **Field operations:** Gauges will be operated in accordance with the procedures set forth in the Operating Manual provided by the gauge manufacturer.
  - Before removing the gauge from the storage building, check to make sure that the gauge source rod is locked in the shielded position. Then place the gauge in its transport case.
  - Sign the gauge out on the Nuclear Densometer Rotation Log using your call number and correct date.
  - While the gauge is in the field, an authorized user must maintain control over the gauge at all times. The gauge must never be left unattended.

• Keep unauthorized persons away from the area where the gauge is to be used.

License #: 11-27092-01

- Do not touch the source rod with your fingers, hands, or any part of your body. Always make sure the source rod is returned to the shielded position after each measurement is made.
- Never look under the gauge when the source rod is extended beyond the bottom of the gauge.
- When the gauge is not in use at a temporary jobsite, place the gauge in its carrying case and secure it to the bed of the pick-up with the cable and padlock provided.
- Return the gauge, carrying case, and document folder to the permanent storage building at the end of your work shift each day.
- Mark the gauge out of service and notify the RSO if the gauge needs repair or cleaning. Gauge maintenance will be carried out only by the RSO or designated representative.

#### **EMERGENCY PROCEDURES**

Any abnormal occurrence must be immediately reported to the RSO who will take appropriate action to secure the sources and notify the government authorities as required by the regulations. All unauthorized persons must be kept far enough away from the radiation sources to preclude them from receiving in excess of 2 mrem in any hour. The gauge surroundings must be under constant surveillance. Any person or object which may have been contaminated with radioactive material must be detained at the site until monitored by the RSO or other appropriately equipped and authorized person and shown to be free of contamination. The names and addresses of all detained persons will be recorded.

A list of names and phone numbers of persons who may be called in case of a radiological emergency shall be maintained with each gauge. The RSO shall maintain a file of all investigations of abnormal occurrences.

1. Lack of Personnel Dosimetry: In the event a person handles the gauge or is otherwise exposed to radiation from the sources without proper personnel dosimetry, the RSO shall assemble all available information to determine the exposure the individual received. The analysis and conclusions will be documented. The exposure will be reported as required in the regulations.

- 2. Transportation Accident: In the event a vehicle transporting a gauge is involved in an accident, the operator should immediately cordon off an area around the vehicle and damaged gauge. A radius of 15 feet will normally be sufficient. A visual inspection of the gauge should be made to determine if the source housing and/or shielding has been damaged. Unless incapacitated, the operator will remain at the scene to provide information on the hazard to the responding agencies. Any people or vehicles which may have been contaminated by the damaged gauge should be detained until checked for contamination. At the earliest possible time, when the situation is under control, the operator will notify the RSO describing the present conditions. The operator will follow the instructions of the RSO.
- 3. Broken or Crushed Gauge: If a gauge appears broken or crushed, the area should be immediately evacuated and set up as a restricted area. All personnel should be moved to the upwind side of the gauge. If the gauge is inside a building, the building ventilation should be shut down. All personnel and equipment that could possibly have come in contact with the contaminated material must be detained just outside the restricted area until checked for contamination. At the earliest possible time, the operator will notify the RSO describing the present conditions. The RSO will notify proper authorities immediately. Removal of the source and decontamination of the site will be done under the direction of the RSO and/or Government officials.
- 4. Lost or Stolen Gauge: If a gauge is lost or stolen, the RSO will immediately be notified. The RSO will contact the proper authorities (N.R.C. and National Response Center) and will call an information gathering meeting of all persons who may have information pertaining to the period of time between confirmation the gauge was present and the gauge was observed to be missing. A search will be coordinated using the information obtained at this meeting.
- 5. Fire: In case a fire develops, the gauge operators will immediately secure and lock all gauges. If practical, the gauges shall then be removed from the fire area. If a structure fire should threaten a gauge storage area, gauge personnel should remove the gauges to a safe location if such removal will in no way threaten life or limb. Fire department personnel should be immediately notified of the safe disposition of the gauges.

If a gauge cannot be recovered due to the fire hazard, the gauge operators shall remain at the scene to notify incoming fire department personnel. The RSO shall be notified as soon as possible. The RSO shall assist the fire department personnel as required including advice on means to reduce spreading contamination, monitoring of personnel for contamination, logging or estimating exposures to fire fighting personnel, and efforts to recover the gauges. Proper authorities should be notified as soon as possible.