



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

August 7, 2006

Docket No. 03015179

License No. 37-18494-01

Joseph F. Pyott  
Radiation Safety Officer  
Windsor Service  
P.O. Box 13787  
Reading, PA 19612-3787

SUBJECT: INSPECTION 03015179/2006001, WINDSOR SERVICE, TEMPORARY JOB SITE, READING, PENNSYLVANIA

Dear Mr. Pyott:

On July 10 and 11, 2006, Ronald G. Rolph of this office conducted a reactive safety inspection at the temporary job site, located at Morgantown Road and Upland Avenue, in Reading, Pennsylvania of activities authorized by the above listed NRC license. The inspection was limited to a review of a damaged portable gauge event. Additional information provided in the telephone conversation on July 11, 2006 between you and Mr. Rolph was also examined as part of the inspection. The findings of the inspection were discussed with you at the conclusion of the inspection. The enclosed report presents the results of this inspection.

Within the scope of this inspection, no violations were identified.

Current NRC regulations are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material**; then **Toolkit Index Page**. The current NRC Enforcement Policy is included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **What We Do, Enforcement**, then **Enforcement Policy**. Or you may obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

No reply to this letter is required. Your cooperation with us is appreciated.

Sincerely,

***Original signed by John D. Kinneman***

John D. Kinneman, Chief  
Security and Industrial Branch  
Division of Nuclear Materials Safety

Enclosure:  
Inspection Report No. 03015179/2006001

cc:  
Commonwealth of Pennsylvania

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**SUNSI Review Complete: RRolph**

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U.S. NUCLEAR REGULATORY COMMISSION  
REGION I

INSPECTION REPORT

Inspection No. 03015179/2006001  
Docket No. 03015179  
License No. 37-18494-01  
Licensee: Windsor Service, a Division of RMI  
Address: P.O. Box 13787  
Reading, PA 19612-3787  
Location Inspected: Morgantown Road and Upland Avenue  
Reading, PA  
Inspection Dates: July 10 and 11, 2006

Inspector:	<b><i>Original signed by Ronald G. Rolph</i></b> _____ Ronald G. Rolph Health Physicist	<b><i>August 1, 2006</i></b> _____ date
Approved By:	<b><i>Original signed by John D. Kinneman</i></b> _____ John D. Kinneman, Chief Materials Security and Industrial Branch Division of Nuclear Materials Safety	<b><i>August 7, 2006</i></b> _____ date

## EXECUTIVE SUMMARY

Windsor Service, a Division of RMI  
NRC Inspection Report No. 03015179/2006001

On July 10, 2006, at approximately 10:40 A.M., the NRC Headquarters Duty Officer was notified by a contract road crew supervisor that a nuclear gauge was crushed by a paving roller. One of the licensee's portable gauge operators was performing measurements using a Troxler Electronic Laboratories, Inc. Model 4640B, thin layer density portable gauge, Serial No. 2492, at the temporary job site located at Morgantown Road just South of Upland Avenue, Reading, Pennsylvania. The portable gauge operator notified the paving roller operator that portable gauge activities would be conducted in this area.

While watching the portable gauge, from a distance of approximately 10 feet from the gauge, the operator saw the paving roller begin to back up toward the gauge. The portable gauge operator tried to stop the paving roller by yelling at the paving roller operator but the roller operator could not see the gauge and did not hear the yelling. The paving roller pushed the portable gauge into the asphalt and partially crushed it before stopping and reversing direction. The paving roller operator stated that he felt the roller come in contact with something and then remembered the gauge operator was in the area. He also stated that he saw the gauge operator standing on the side when he reversed direction.

The portable gauge was severely damaged. The portable gauge operator informed the licensee's assistant RSO about the event. The gauge operator cordoned off a 20' radius around the damaged gauge. The assistant RSO arrived at the site. After the assistant RSO observed the device, he thought the source was still in the shielded position. Based on survey meter reading data, the source appeared to be secured in its shielded position. The gauge was removed from the asphalt and placed in the portable gauge case. Surveys were performed of the asphalt and no readings above background were observed.

Dose rates on the outside of the case were 3.5 to 4 mR/hr. The gauge was transported to the licensee's permanent storage location in Reading, Pennsylvania. On July 11, 2006, the licensee's RSO transported the gauge to NETS, a Maryland licensee, for leak testing and proper recycling of the radioactive source.

## REPORT DETAILS

### I. Material Receipt, Use, Transfer, and Control

a. Inspection Scope

On July 10, 2006 the inspector visited the temporary job site at Morgantown Road just South of the intersection of Upland Avenue, Reading, Pennsylvania to review the use and control of portable gauges and recovery of a damaged portable gauge.

b. Observations and Findings

One of the licensee's portable gauge operators was performing measurements using a Troxler Electronic Laboratories, Inc. Model 4640B, thin layer density portable gauge, Serial No. 2492, at the temporary job site located at Morgantown Road just South of Upland Avenue, Reading, Pennsylvania. Discussions with the portable gauge operator indicated that proper surveillance and control of the licensed material were maintained during this event. The portable gauge operator notified the paving roller operator that portable gauge activities would be conducted in this area.

While watching the portable gauge, from a distance of approximately 10 feet from the gauge, the operator saw the paving roller begin to back up toward the gauge. The portable gauge operator tried to stop the paving roller by yelling at the paving roller operator but the roller operator could not see the gauge and did not hear the yelling. Telephone conversation with the paving roller operator on July 11, 2006 also confirmed that the portable gauge operator maintained proper control and surveillance of the licensed material. The paving roller operator stated that he felt the roller come in contact with something and then remembered the gauge operator was in the area. He also stated that he saw the gauge operator standing on the side when he reversed direction.

The portable gauge was severely damaged. The portable gauge operator informed the licensee's assistant RSO about the event. The gauge operator cordoned off a 20' radius around the damaged gauge. When the assistant RSO arrived at the site, the assistant RSO observed the device and thought the source was still in the shielded position. Also, based on survey meter reading data, the source appeared to be secured in its shielded position.

When the inspector arrived at the scene, the inspector observed that approximately a 20' radius around the gauge was cordoned off and the assistant RSO was at the site. A meeting was in progress to discuss the retrieval of the portable gauge. Present at the meeting were the assistant RSO, the deputy coordinator of the Berks County Emergency Management Agency, two radiation specialists from the Pennsylvania Department of Environmental Protection and a construction supervisor from the Pennsylvania Department of Transportation. The gauge was lifted from the asphalt using shovels and placed in the portable gauge case. Surveys were performed to confirm that the source was transferred to the case and no residual activity remained on the asphalt.

Dose rates on the outside of the case were 3.5 to 4 mR/hr. The gauge was transported to the licensee's permanent storage location in Reading, Pennsylvania. On July 11, 2006, the licensee's RSO transported the gauge to NETS, a Maryland licensee, for leak testing and proper recycling of the radioactive source.

c. Conclusions

The inspector concluded the portable gauge operator maintained surveillance and control of the portable gauge, the emergency procedures were implemented, and the portable gauge with the source was properly recovered. No violations were identified.

## II. Training of Workers

a. Inspection Scope

The inspector reviewed training records of the portable gauge operator.

b. Observations and Findings

The licensee's RSO sent facsimiles of the training documentation for the portable gauge operator. The portable gauge operator successfully completed the Q/C Resource "Fundamentals of Safety and Gauge Operation" course on November 23, 1998. The portable gauge operator also completed the licensee's Hazardous Materials training on February 24, 2006.

c. Conclusions

The inspector reviewed the training documents and determined the portable gauge operator met the training requirements. No violations were identified.

## III. Exit Meeting

An exit meeting was held with the RSO on July 11, 2006. No violations were identified.

## PARTIAL LIST OF PERSONS CONTACTED

### Licensee

Ms. Michele Faust - Portable Gauge Operator  
Mr. Ronnie Landis - Safety Director  
Mr. Joesph F. Pyott - Risk Manager

### Others

Mr. Mike Hillegas - Roller Operator  
Mr. James R. Dillard - Radiation Protection Specialist,  
Pennsylvania Department of Environmental Resources  
Mr. Brian A. Gottschall - Deputy Coordinator Operations and Training,  
Berks County Emergency Management  
Mr. Joesph A. Yodis - Construction Supervisor,  
Pennsylvania Department of Transportation