



**Acuren USA Inc.**  
P.O. Box 340122  
Prudhoe Bay, AK 99734  
Phone: (907) 659-8249  
Fax: (907) 659-5936  
**Materials Engineering and Testing**  
a Rockwood Company

December 18, 2007

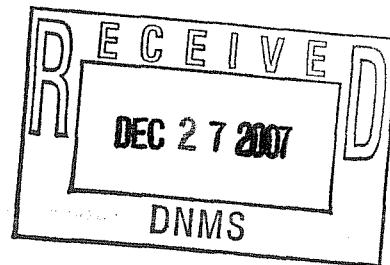
To Whom It May Concern, the attached document is provided in accordance with CFR title 10 part 34.101

License number 42-32443-01  
Amendment 8  
Dated August 20, 2007

Please contact the above telephone number with any inquiries.

Thank you,

Robert L. Jefferson  
Site Radiation Safety Officer  
Acuren USA Inc.





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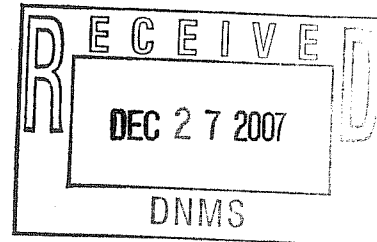
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**Radiation source could not be retracted normally into the shielded position.**

**Equipment Problem**

The source guide tube was sharply bent at the adapter connection.

**Cause of Incident**

Device fell approximately 3 feet resulting in a kinked guide tube

**Equipment Involved**

7' flexible Guide Tube

Exposure Device Model #: Sentinel Delta 880

Exposure Device serial #: D1542

Isotope: Iridium 192

Source serial #: 40516B

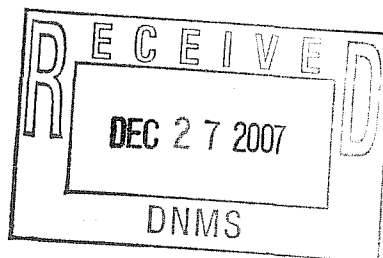
Source Activity: 96.3 ci.

**Place, Date, Time**

Location: Gathering Center #2, Prudhoe Bay, AK

Date: November 21, 2007

Time: 0030 hrs Alaska Standard Time



**Actions Taken to Establish Normal Operations:**

The following is a description of the scene and the actions taken to secure the source.

The exposure taken prior to the incident was a 6 o'clock shot of a 24" oil line. The line is approximately 12' above ground to the top of the pipe. A scaffold platform was in place approximately 3' below the pipe. The collimated end of the guide tube was in the original position as it was during exposure. The exposure device which was originally on the top of the pipe was suspended by the 50' control cables in a vertical position 2" above a horizontal pipe support beam on the opposite side of the control handle. The horizontal beam runs perpendicular to the pipe. The control cables were routed to the ground for operation. The device was not secured to the pipe and vibrations were the most likely cause for the device to fall.

The control cables were rerouted to the side of the pipe the device was on. This allowed the device to be lowered to the platform, relieved tension on the control cables and allowed the guide tube to be straightened. After another attempt to retract, the source was still not yet able to be retracted to the shielded position. It was assessed that there was a restriction in the area of the previously sharp bend in the guide tube. The tube was reshaped in the area of the previous sharp bend with locking pliers. The source was then retracted into the fully shielded position. Time: 0345 hrs.

**Corrective Action Planned to Prevent Recurrence:**

Immediate retraining on physical security of exposure device while operating, i.e.; strapping device to pipes to prevent from falling.

**Qualifications of Personnel Involved in Incident**

IRRSP certified Radiographer, 2 years experience

Assistant Radiographer, 6 months experience



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**ACUREN**  
Acuren USA  
PO Box 340122  
Prudhoe Bay, AK 99734



**ACUREN** TO: USNRC, Region IV  
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Suite 400  
Arlington TX 76011-4005

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