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A Rockwood Company

February 27, 2011

From: Robert L. Jefferson, RSO, Acuren USA Inc., Prudhoe Bay, Alaska
Materials Lic. # 42-32443-01

To: USNRC, Region IV, Material Radiation Protection Section

Subject: Failure of component to properly perform its intended function.

1. Description of problem: Bayonet adapter unintentionally disconnected from Sentinel 880 Exposure Device during source exposure (crank out).

2. Cause of incident: Inspection of equipment proved no conclusion was able to be determined as to the cause.

3. Manufacturer / Model / Serial number of equipment:
Sentinel (QSA Global) / Delta 880D / D3898
Bayonet fitting (QSA Global) / part number 88081 / s/n NSRT1015

4. Place, Date, Time: Drill Site 7, Prudhoe Bay, Alaska, February 12, 2011, 1300hrs

5. Actions to establish normal operations: None required

6. Planned action to prevent recurrence: The device and the bayonet fitting have been taken out of service and sent to QSA for a full inspection and a request to replace the entire front plate assembly.

7. Qualifications of personnel involved:
IRRSP Certified Radiographer, #177208, 2 years 10 months experience
Assistant Radiographer, 1 year 8 months experience

A two man crew performing radiography discovered while doing a post exposure survey that the guide tube/bayonet had disconnected from the Sentinel 880 device they were using. The RSO went to the location to investigate. After debriefing the crew and inspecting the equipment, no conclusion was able to be determined as to the cause. According to the radiographer, while the source was being cranked-out he observed an excessive amount of revolutions than anticipated for the length of guide tube in use. The radiographer then retracted the source to the shielded position and performed a survey. The post survey was normal with the exception of the bayonet not being connected to the camera.

Robert L. Jefferson
Radiation Safety Officer
Acuren USA Inc.