



January 25, 2010

To: Director
Office of Nuclear Materials Safety and Safeguards
Nuclear Regulatory Commission
Washington, D.C.

Subject: Malfunctioning Lock, INC IR-100
Event Number 45648
Materials License No. 50-27667-01

To Whom It May Concern:

On January 22nd a radiography crew working the Alpine Oil Field on the North Slope of Alaska experienced a malfunctioning locking system on an INC IR-100 exposure device.

When preparing to perform the second exposure of the shift the locking bar deployed prematurely. The crew reset the locking bar and the locking mechanism tripped again when the cranks were rotated. The exposure device was surveyed, no abnormal readings noticed, and prepared for disassembly. When the crank assembly was removed it was noted that the pigtail was not in the proper position, approximately ¼ inch further inside the camera than normal. The shipping plugs were placed appropriately and the exposure device was tagged out and transported back to the storage vault.

When the trained technician attempted to remove the locking assembly, one set screw could not be removed. The remaining set screws were replaced and the camera will be shipped back to the manufacturer for repair.

Exposure Device: Industrial Nuclear IR-100
Device S/N: 6761
Source S/N: O820
Source Activity: 82.4 curies
Source Type: Ir¹⁹²

The weather was minus 17 degrees with a wind speed of 18 knots.

There was no exposure to the crew or the General Public during this incident.

If there are further questions or information required, please feel free to contact me.



Inspection • Engineering • Program Management

Sincerely,

A handwritten signature in black ink, appearing to read "Keenan E. Remele". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Keenan E. Remele
RSO