

INES Event Rating Form (ERF)

Version 1

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| Sender's Name: | Patricia Milligan |
| Sender's Organization: | Nuclear Regulatory Commission (NRC) (United States of America) |
| Event Title: | Overexposure to Radiographer |
| Event Date: | 2015-11-11 |
| Location / Facility: | Pecos, Texas/Nondestructive and Visual Inspection, |
| Event Country: | United States of America |
| Event Type: | Radiation Source |
| INES Rating: | 2 - Incident (Final) |
| Rating Date: | 2015-11-16 |

Impact on people and the environment

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| Release beyond authorized limits? | No |
| Overexposure of a member of the public? | No |
| Overexposure of a worker? | Yes |

Impact on the radiological barriers and controls at facilities

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| Contamination spread within the facility? | No |
| Damage to radiological barriers (incl. fuel damage) within the facility? | No |

Degradation of Defence In-Depth? No

Other information

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| Person injured physically or casualty? | No |
| Is there a continuing problem? | No |

Event Description

After performing a radiograph, the radiographer believed he had cranked the source back inside the camera. However, when he went to retrieve the film, he noticed that his survey meter was reading off-scale, and then he noticed that his pocket dosimeter also read off-scale. The radiographer's whole body dosimetry was sent for processing, which resulted in readings of 114.5 mSv (11.45 rem) deep dose equivalent and 114.9 mSv (11.49 rem) lens dose equivalent. The total effective dose equivalent accrued by the radiographer for the year was 125.8 mSv (12.58 rem). The radiographer has not shown any health effects from this event nor are any expected. NRC EN51537

Rating Justification

A Level 2 is warranted for exposure of a worker in excess of statutory annual dose limits. See Section 2.3.1 INES User's Manual 2008 Edition (IAEA-INES-2009) http://www-pub.iaea.org/MTCD/publications/PDF/INES-2009_web.pdf

Press Release Attached: No

Technical Document Attached: No

Further Information on Web:

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