

# INES Event Rating Form

<b>Event Title:</b>	Overexposure to Member of the Public
<b>Date of Event:</b>	2013-12-10
<b>Event Location / Facility Name:</b>	Seminole, Texas/Wilco NDT
<b>Event Country:</b>	United States
<b>Type of Event:</b>	Radiation Source

<b>INES Rating:</b>	<b>1</b>
<b>Status of Rating:</b>	<b>Final</b>
<b>Date of Rating:</b>	<b>2014-01-22</b>

<b>Impact on People and Environment</b>		
<i>Release beyond authorized limits?</i>	<input type="checkbox"/>	
<i>Overexposure of a member of the public?</i>	<input checked="" type="checkbox"/>	
<i>Overexposure of a worker?</i>	<input type="checkbox"/>	
<b>Impact on the Radiological Barriers and Controls at Facilities</b>		
<i>Contamination spread within the facility?</i>	<input type="checkbox"/>	
<i>Damage to radiological barriers (incl. fuel damage) within the facility?</i>	<input type="checkbox"/>	
<b>Degradation of Defence In-Depth?</b>	<input type="checkbox"/>	
<b>Person injured physically or casualty?</b>	<input type="checkbox"/>	
<b>Is there a continuing problem?</b>		

### Event Description<sup>1</sup>:

The Texas Department of State Health Services was informed of an incident involving industrial radiography of a pressure vessel. A site foreman was present in the work area with the radiographer. The radiographer approached the source collimator to change the film and realized the source was still in the exposed position. It is estimated that the site foreman received an unintended dose. The site foreman reported he was in the area for 5-8 minutes and approximately 30-60 cm (12-24 inches) from the source. A calculated dose for an 8 minute exposure at a distance of 30 cm (1 foot) from the 2.5 TBq (67 Ci) Ir-192 source was 400 mSv (40 rem). The radiographer's badge is being sent for analysis. UPDATE: After further investigation, the dose to the radiographer was calculated at 21 mSv (2.1 rem), which is not in excess of the statutory limit for radiation workers. However, dose to the site foreman was calculated at 5.15 mSv (515 mrem), in excess of the statutory limit of 1 mSv (100 mrem). EN49623.

### Justification of INES Rating<sup>2</sup>:

**A Level 1 is warranted for exposure of a member of the public 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](http://www-pub.iaea.org/MTCD/publications/PDF/INES-2009_web.pdf)**

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Organization Website (URL):	<a href="http://www.nrc.gov">www.nrc.gov</a>

<b>Further Info on Web (URL):</b>	<a href="#">Click here to enter text.</a>
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### Annexes:

<sup>1</sup> If/when the ERF is published on the IAEA NEWS website, the first 300 characters of the event description will appear on the front page of the website.

<sup>2</sup> If/when the ERF is published on the IAEA NEWS, the contents of the Justification of the INES Rating field will not appear to users from the general public.

	<b>INES Event Rating Form</b>	
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<b>Title</b>	<b>Category</b>	<b>Description <i>(optional)</i></b>
Click here to enter text.	Choose an item.	Click here to enter text.
Click here to enter text.	Choose an item.	Click here to enter text.