

Event No.: 45786

Sent Date:

EVENT RATING FORM (ERF)

THE INTERNATIONAL NUCLEAR EVENT SCALE (INES)																
EVENT TITLE											EVENT DATE					
Worker Overexposure											2010.04.02					
RATING	RATING	OUT OF	DEVIATION	INCIDENT			ACCIDENT				FACILITY TYPE					
PROVISIONAL <input type="checkbox"/>	DATE	SCALE	0	1	2	3	4	5	6	7	Power Reactor <input type="checkbox"/>	Research Reactor <input type="checkbox"/>				
FINAL <input checked="" type="checkbox"/>	2010.07.06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Radwaste Facility <input type="checkbox"/>	Radiation Source <input type="checkbox"/>				
COUNTRY			FACILITY NAME								Irradiation <input type="checkbox"/>			Transportation <input type="checkbox"/>		
USA			WASHINGTON UNIVERSITY ST. LOUIS								Fuel Fabrication <input type="checkbox"/>			Fuel Reprocessing <input type="checkbox"/>		
LOCATION											Research Facility <input checked="" type="checkbox"/>			Mining/Milling <input type="checkbox"/>		
St. Louis, Missouri, USA											Enrichment Facility <input type="checkbox"/>			Other <input type="checkbox"/>		
OFF-SITE IMPACT											YES	NO				
RELEASE BEYOND AUTHORIZED LIMITS											<input type="checkbox"/>	<input checked="" type="checkbox"/>				
OVEREXPOSURE OF MEMBERS OF PUBLIC											<input type="checkbox"/>	<input checked="" type="checkbox"/>				
ON-SITE IMPACT																
CONTAMINATION SPREAD											<input type="checkbox"/>	<input checked="" type="checkbox"/>				
WORKER OVEREXPOSURE											<input checked="" type="checkbox"/>	<input type="checkbox"/>				
DAMAGE TO RADIOLOGICAL BARRIERS											<input type="checkbox"/>	<input checked="" type="checkbox"/>				
DEGRADATION OF DEFENSE IN-DEPTH											<input type="checkbox"/>	<input checked="" type="checkbox"/>				
PERSON INJURED PHYSICALLY OR CASUALTY											<input type="checkbox"/>	<input checked="" type="checkbox"/>				
IS THERE A CONTINUING PROBLEM											<input type="checkbox"/>	<input checked="" type="checkbox"/>				
PRESS RELEASE ISSUED (IF YES, PLEASE ATTACH)											<input type="checkbox"/>	<input checked="" type="checkbox"/>				
EVENT DESCRIPTION																
<p>The Licensee reported a potential overexposure based on a ring dosimetry report that indicated a dose between 119 and 40 mSv (11.9 and 4 rem). Licensee investigations indicated that a research technician is believed to have received between 0.5 to 4 Sv (50 to 400 rem) to his fingertips due to improper handling of bromine-76. The range of the 0.5 to 4 Sv dose estimate was based on interviews with the technician and the results of a Varskin computer calculation. There were no observable effects to the fingertips. The technician handled vials containing 1.18 GBq (32 mCi) of bromine-76 without the use of tongs, which was the approved method. The technician has approximately 6 years of experience handling this material and there was no apparent reason for the lapse in safety technique. Update: Due to perceived operational pressures that the technician deemed took precedence over principles to keep doses as low as reasonably achievable, the technician directly handled the vials on several occasions. The dose has been determined to be 260 mSv (26 rem) to the fingertips, which is below the regulatory reporting limit of 500 mSv (50 rem) to the extremities. The licensee retracted the event.</p>																
Rating Justification and Difficulties Encountered																
(quote relevant user manual paragraphs)																
The final rating for this event is Level 0.																
Contact Person for Further Information																
Name							Affiliation									
Dr. Cynthia Jones, Office of Nuclear Security and Incident Response							U.S. Nuclear Regulatory Commission									
Address: Mail Stop T4-D22A, Washington, DC 20555																
Phone: 301-415-0298				Fax: 301-415-6382				eMail: cynthia.jones@nrc.gov								

This form is provided by the IAEA INES Coordinator: Rejane Spiegelberg Planer, Incident and Emergency Centre, Department of Nuclear Safety and Security, Tel: +43 (1) 2600-26074, Fax: +43 (1) 26007-26074, email: r.spiegelberg-planer@iaea.org.

NOTE: This form *should not* be used for sending information to the IAEA about an actual event!

For this purpose the Nuclear Events Web-based System (<http://www-news.iaea.org>) should be used instead.