




Idaho National Laboratory

Battelle Energy Alliance

RADIOLOGICAL WORK PERMIT

RWP Title		RWP Number		
Off Site RDD Training and Source Handling at Annapolis, Maryland		MFC2013324 Rev. 00		
Comments				
N/A		 MFC2013324		
General Information				
<u>RWP Status</u> Initiated	<u>RWP Type</u> General	<u>Begin Date</u> 09/02/2013	<u>Close On Date</u> 10/07/2013	<u>Neutron Correction Factor</u> N/A
Electronic Dosimeter Alarm Settings		Other		
<u>Gamma Dose</u> (mrem) 50	<u>Gamma Rate</u> (mrem/hr) 100	<u>RWP Estimated Dose</u> 600 mrem	<u>Job Supervisor</u> Principal Investigator	
Locations				
<u>Buildings</u>		<u>Location Details</u>		
Off-Site		Annapolis, Maryland		
Radiological Conditions				
Prior to entry: Workers must review the current survey map OR be briefed by Rad Con on current Radiological Conditions.				
<u>Description</u>	<u>Value</u>	<u>Unit</u>		
Alpha Contamination Levels	< 20	dpm/100 cm ²		
Beta - Gamma Contamination Levels	<1000	dpm/100 cm ²		
Beta - Gamma Dose Rate At 30cm	500	mrem/hr		
Gamma Dose Rate At 30cm	500	mrem/hr		
General Area Gamma Dose Rate	0-500	mrem/hr		
Requirements				
<u>Requirement Groups</u>	<u>Requirement Descriptions</u>			
ALARA Review	ALARA Radiological Engineer Review - ALARA Review #RDD 2013-XXX			
Contamination Control	Additional Requirement: The HPT will perform post-training leak checks prior to return shipment to INL or another off-site location.			
Coverage	Continuous Rad Con Coverage Required			
Dosimetry	Electronic Dosimeter Required			
	OSL Beta/Gamma Dosimeter Required			
Exposure Control	Additional Requirement: 1. Tongs or extension tools at least two feet in length must be used when handling sources outside of storage containers. The (5) 10 mCi Cs-137 sources must be handled with extension tools at least 3" in length. This requirement does not apply to the handling of HPT instrument check sources.			
	2. Handling of sources reading greater than 30,000 mrem/hr at one foot will require the use of the Delta 880 or Model 680-OP exposure control device.			
	3. No hands-on contact with sources is permitted. This requirement does not apply to the handling of HPT instrument check sources.			
Training Requirement (Authorized Individuals)	Rad Con Management Approved Individuals			
	Additional Requirement: See special instructions			



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Additional Instructions	
<p>Special Instructions:</p> <ol style="list-style-type: none">Workers will check their electronic dosimeter dose frequently during the course of the work. If a worker's electronic dosimeter is nearing the dose alarm setpoint, the worker will exit the area and notify an HPT.During this activity, as workers approach the source, an electronic dosimeter dose rate alarm is expected to occur. If a dose rate alarm occurs, workers should limit their time in the area, then retreat to a lower background area to keep radiation dose as low as reasonably achievable.Training required: Radiological Worker I or II training or escorted access for non-radiological work trained personnel. Escorted access must be approved by the Radiological Control Manager	
<p>Evaluation Points:</p> <ol style="list-style-type: none">ED dose alarm.If a source is determined to be potentially damaged, personnel will exit the work area around the source, the HPT will secure the area and notify facility and RadCon Management <p style="text-align: center;">*** If ANY "Evaluation Point" is met; notify Radiological Control (RadCon) Supervisor or a RadCon Engineer to evaluate controls. Document results of evaluation in the Rad Con Log or on Form 441.A81.***</p>	
<p>Limiting Conditions That Void The RWP:</p> <ol style="list-style-type: none">A source that cannot be retracted into its designated shielded storage container using the normal procedure.Entry into an area containing whole body dose rates greater than 1000 mrem/hr.Contamination detected during source leak checks greater than 1000 dpm/100cm² beta-gamma or greater than 20 dpm/100cm² alpha. <p style="text-align: center;">***If limiting conditions are met; stop work, place job in a safe condition, cease use of the RWP as written, and notify Job Supervisor and Radiological Control Supervision.***</p>	
<p>HPT/RCT Instructions:</p> <ol style="list-style-type: none">Radiation Area boundaries, using either physical or positive visual control, will be established at 2 mrem/hr.When a source is exposed, the HPT will provide continuous direct surveillance of access points to areas with radiation levels >1000 mrem/hr at 30 cm to prevent unauthorized entry.Continuous RadCon coverage is required when sources are exposed, radiation generating devices are operating, or operations where expected dose rate alarms can occur.Use an ionization chamber to survey for X-ray dose rates.The HPT will verify that individuals working on this RWP have current Radiological Worker I or II qualification, or that individuals who are not Radiological Worker trained are under escort by an employee who possesses Radiological Worker I or II training. Escorted workers must be approved by the Radiological Control Manager.	
<p>Other: N/A</p>	



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Approvals		
<u>Printed Name</u>	<u>Signature</u>	<u>Date</u>



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Technical Work Document(s)		
LI-344 RDD Material training Activities and Evaluations using Radiation Emitting Sources and/or Devices		



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Estimated Dose Description		
RWP Number: Rev.		
N/A		