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

RWP Status	RWP Type	Begin Date	Close On Date	Neutron Correction Factor
Initiated	General	09/02/2013	10/07/2013	N/A

Electronic Dosimeter Alarm Settings		Other	
Gamma Dose (mrem)	**Gamma Rate** (mrem/hr)	**RWP Estimated Dose**	**Job Supervisor**
50	100	600 mrem	Principal Investigator

Locations

Buildings	Location Details
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.

Description	Value	Unit
Alpha Contamination Levels	< 20	dpm/100 cm2
Beta - Gamma Contamination Levels	<1000	dpm/100 cm2
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

Requirement Groups	Requirement Descriptions
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

Special Instructions:

1. 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.

2. 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.

3. 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

Evaluation Points:

1. ED dose alarm.

2. 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

***** 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.*****

Limiting Conditions That Void The RWP:

1. A source that cannot be retracted into its designated shielded storage container using the normal procedure.

2. Entry into an area containing whole body dose rates greater than 1000 mrem/hr.

3. Contamination detected during source leak checks greater than 1000 dpm/100cm^2 beta-gamma or greater than 20 dpm/100cm^2 alpha.

*****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.*****

HPT/RCT Instructions:

1. Radiation Area boundaries, using either physical or positive visual control, will be established at 2 mrem/hr.

2. 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.

3. Continuous RadCon coverage is required when sources are exposed, radiation generating devices are operating, or operations where expected dose rate alarms can occur.

4. Use an ionization chamber to survey for X-ray dose rates.

5. 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.

Other:

N/A

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Approvals		
Printed Name	**Signature**	**Date**

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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
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N/A