Event Details - Condition Report

Condition Report - CR-2014-001074

Properties

Number	CR-2014-001074
Class	eB CA\Incident Forms\Condition Report
Name	CONTAMINATION IDENTIFIED ON THE GROUND I
Description	ON 09/24/2014, AN 8-120 LINER WAS LOADED INTO AN 8-120B SHIPPING CASK IN THE SOUTH YARD. THE LINER WAS REMOVED FROM ONE OF THE RAD VAULTS WITHIN THE STORAGE ARRAY. THE FOLLOWING IS A BASIC SEQUENCE OF EVENTS THAT TYPICALLY OCCUR: THE RAD VAULT LID IS
StartDate	9/25/2014 10:24:23 AM
EndDate	11/13/2014
Approval Status	Approved

Attributes

Allibules	
Attribute	Value
Evaluation Due Date	3/20/2015
Evaluation/Review Sent To CR Owner	11/12/2014
Evaluator Comments	Evaluator comments as well as the Department Head, CAP Organization, and HU comments were incorporated into the ACE prior to MRC review and approval. RAF 11/13/14
SIG Level	SIG2
Assigned Evaluation	ACE
Evaluation Due Date	3/20/2015
Date/Time Initiated	9/25/2014
Brief Description	Contamination Identified on the ground in South Array During Waste Shipment
Detailed Description	On 09/24/2014, an 8-120 liner was loaded into an 8-120B Shipping Cask in the South Yard. The liner was removed from one of the rad vaults within the storage array. The following is a basic sequence of events that typically occur: The Rad vault lid is removed and liner is disengaged from the overpack. The liner is withdrawn into the T-Bell. The bottom of the liner is perforated to allow water to drain out when removing from the Reactor Cavity; therefore, there is a high potential for loose contamination on the bottom of the liner that is no longer covered. At this point the T-Bell/liner is moved over the north side of the array and set down upon herculite or similar covering the asphalt. The overpack in the rad vault is inspected for residual water. If water is identified, it is removed and controlled. The overpack is then picked up and moved over to the north side of the array. A secondary enclosure (bag) is placed around the overpack and secured then the overpack/bag is placed inside of the shipping cask which is on the truck trailer. The T-Bell/liner is then moved over the top of the shipping cask and the liner is lowered into the overpack/bag until fully engaged. The T-Bell is then set back on the herculite. The secondary enclosure (bag) is sealed around the liner/overpack within the shipping cask. The placement of the bag around the liner/overpack when together is not feasible due to relatively high contact dose rates exceeding 100 R/hr. Placement of the bag inside the shipping cask then lowering and the high contact dose rates. This process also resulted in ripping the bag. Newer bags are currently being used that are looser fitting reducing the risk of tearing if that method was used. However, the risk of tearing still exists and would not be realized until the package reaches its destination. Therefore, that method is still not deemed feasible due to risk of secondary closure failure and inability to verify integrity. The most ALARA method was to disengage the liner from the overpack and the shipping cas

	Also, the risk of spread of contamination during removal of the covering exceeds the risk of spread of contamination during movement of the liner uncovered. RP and Waste Operations are aware of the potential for any loose material to fall from the liner during the two moves. RP controls the area, monitors personnel and surveys the travel path, as well as, adjacent areas outside the travel path. The condition identified in this CR was known, was briefed and was handled appropriately. EN-ZN-407 was entered for release of radioactive material to the soil in the South Yard near the rad vault array. Control room was notified. There were multiple slivers/chips identified on the ground in the travel path of the liner between the rad vault and the shipping cask. Slivers/particles were in the range of 50k dpm to 7 million dpm. RP identified the material via routine survey at the end of evolution. All material was collected and returned into the main RCA. The travel path was resurveyed as well as adjacent areas after cleanup and area was cleared. There was one PCE of 30k dpm on an individu
Immediate Actions	Surveyed area, identified and remediated RAM.
Recommended Actions	Close to Actions Taken.
Date Discovered	9/24/2014
Issue Identified By	Initiator
Related Documents	The completion of the CR and its associated CA was acceptable. RAF 11/13/14
Date/Time Reviewed	9/25/2014
Maintenance Rule Applicable?	No
Reportability Applicable?	No
Operability Review Required?	No
Immediate Actions Taken?	Yes
Immediate Actions Description	When notified of the issue on 9/24/14, entered EN-ZN-407, Response To Inadvertent Releases Of Licensed Materials To Groundwater, Surface Water Or Soil and ZAP-110-07, Significant Event Reporting. Performed reportability review per LS-AA-1120 and LS-MW-1320 based on information provided by RP and determined as non-reportable.
Work Request Initiated?	No
50.75G Issue	Yes
7230D Issue	No
MRC Review Meeting Date	11/12/2014
MRC Approval	Yes
MRC Comments	The ACE was reviewed and approved by the MRC on 11/12/14. See the attached file under CA001. There were three MRC comments regarding the ACE; 1) Correct typos and grammar, 2) Add Event Code, and 3) Add completed Planned Action 3. There were no open actions to enter into eB Nuclear. RAF 11/13/14
All Required CAs Complete?	Yes
All Required Documentation Attached?	Yes
CA Completion Appears To Satisfy CR Intent	Yes
Event Date	9/24/2014
Message	- Have Cause Codes been assigned to CR? - Have Event Codes been assigned to CR? - Have related Documents been linked to CR?
Scheduled Completion Date	3/23/2015
Stage	Closed
Trend Status	Active

vents								
Relationship Code		214	Name		Start Date		nd Date	Approval Status
Action	CorrectiveCR-2014-Action001074-CA001		CONDUCT ACE - CONTAMINATION IDENTIFIED O		9/29/2014 1		11/13/2014	Approved
Condition CR-2014-001 Report		014-001074	CONTAMINATION IDENTIFIED ON THE GROUND I		9/25/2014 11/13/2		11/13/2014	Approved
Condition CR-2014-001074 Report		014-001074	CONTAMINATION IDENTIFIED ON THE GROUND I		9/25/2014 11/13/		11/13/2014	Approved
Responsibili	ities							
Responsib	oilityType (Organization	Code Organi	zation Name	Person	Code	Person N	Name
CR Owner		DCSF	DCS Fu	lel	RAFLAHIVE		Flahive, Roger	
Initiator		RP	ESH - I	Radiation Protection	RCKEENE Keene,		Keene, C	Chris
Shift Mana	ger	EXLN	Exelon		MARK.BITTMANN Bittman		Bittmanr	n, Mark
NorkOrders	5							
Number		Name		Class		Statu	s	
CR-2014-0	01074	CR-2014	-001074	Condition Report		Comp	pleted	
Code		Descriptio	on	Person		Start Da	ate End	Date
INITIAT	FION	CR Initiati	on	Chris RC Keene		9/25/20)14 9/25	5/2014
OP REVIEW		Operation	s Review	Mark MJ Bittmann	ו 9/25/2)14 9/25	5/2014
SCREEM	NING	CR Screer	ning	Roxanne RXH Hendrickson 9/29/2		9/29/20	2014 9/29/2014	
SIG 2		Sig 2 - Ov	ner Assignment	Roxanne RXH Hendrickson		9/29/20	9/29/2014 9/29/2014	
CAUSE EVALUATION		Cause Eva	luation	Roger R Flahive		9/29/20	29/2014 11/13/2014	
MRC REVIEW		MRC Revie	ew	Roger R Flahive 1		11/13/2	1/13/2014 11/13/2014	
CAPTURE CA		Capture A	pprd Cas	Roger R Flahive		11/13/2014 11/13/2014		13/2014
PEND CA COMPLETION		Pend CA (Completion	-		11/13/2	11/13/2014 11/13/2014	
	AND CLOSURE		•	Roger R Flahive				
rends								
Group Code	Group Name	Code	Name					
CC-0001	Cause Code	s A3-B2-C0	4 Previous su	ccess in use of rule re	einforced o	continued	use of rule	
EC-0001 Event Codes 03E			Radiation Protection – Equipment or area contamination event					
event D	etails - C	orrectiv	e Actions 01074-CA0					
roperties								
lumber	CR-20	14-001074-CA(001					
Class								
lame	CONDUCT ACE - CONTAMINATION IDENTIFIED O							

9/29/2014

Approved

Global

11/13/2014

StartDate

EndDate

Scope

Approval Status

Attributes	
Attribute	Value
CA Due Date	11/3/2014
CA Description	Conduct ACE - Contamination Identified on the ground in South Array During Waste Shipment CR-2014-001084 and CR 2014-001090 have been closed to this ACE.
CA Owner Comments	See the attached supporting file for the FINAL ACE that was reviewed and approved by MRC on $11/12/14$. RAF $11/12/14$
Stage	Closed

WorkOrders

Number	Name	Name		St	Status	
CR-2014-001074-CA	CR-2014-0010	CR-2014-001074-CA001 C		ctions C	Completed	
Code	Description	Person		Start Date	End Date	
ASSIGN OWNER	CA Owner Assignment	Roxanne RXH	l Hendrickson	9/29/2014	9/29/2014	
COMPLETE CA	CA Completion	Chris RC Keene		11/5/2014	11/5/2014	
REVIEW CA	CA Review	Roger R Flahi	ve	11/13/2014	11/13/2014	

Files

Document	File
TMP14-2279	ACE-2014-001074 Spread of Contamination - Post MRC FINAL.pdf
TMP14-2279	Ariel Views.pdf