

May 2007 Electrical Safety Occurrences

There were 11 electrical safety occurrences for May 2007:

- 1 resulted in shocks to a worker
- 1 involved lockout/tagout
- 7 involved electrical workers and 4 involved non-electrical workers.
- 3 involved subcontractors.

In compiling the monthly totals, the search initially looked for occurrence discovery dates in this month, and for the following ORPS “HQ keywords”:

01K – Lockout/Tagout Electrical, 01M - Inadequate Job Planning (Electrical),

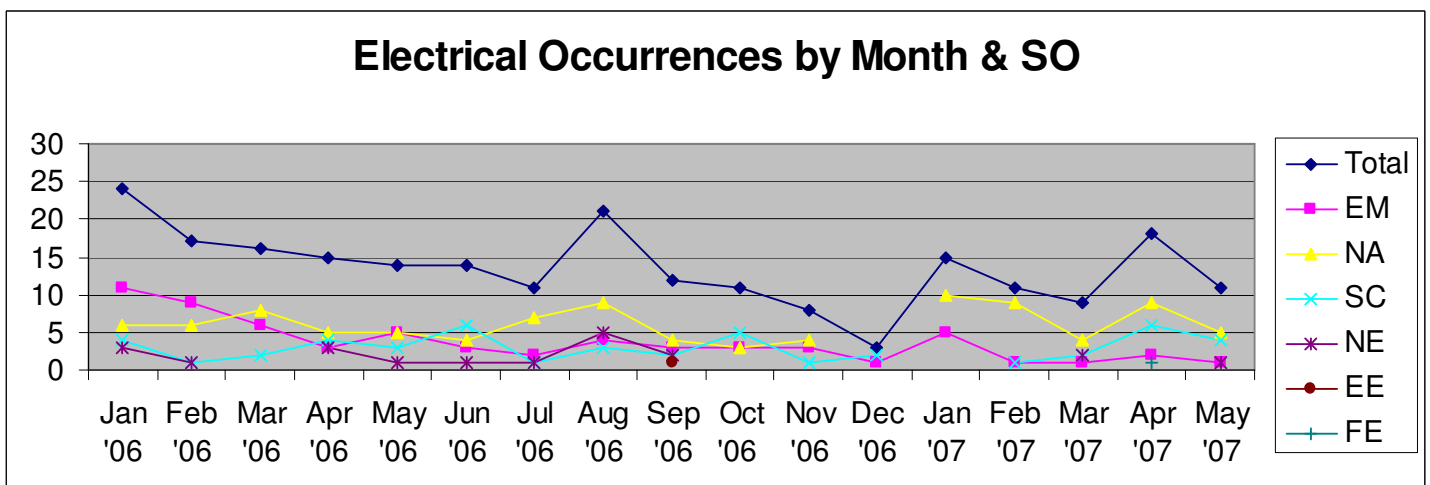
08A – Electrical Shock, 08J – Near Miss (Electrical), 12C – Electrical Safety

The initial search yielded 10 occurrences and a review of these determined none needed to be culled out.

The rolling summary of 2007 electrical safety occurrences is now:

period	Elec. Safety Occurrences	Shocks	Burns	Fatalities
1/07	15	1	0	0
2/07	11	3	0	0
3/07	9	1	0	0
4/07	18	3	1	0
5/07	11	1	0	0
2007 total	64	9	1	0
2006 total	166	26	3	0
2005 total	165	39	5	0
2004 total	149	25	3	1

The average rate of occurrences in 2007 is now 13 per month, which is less and the average rate of 14 per month experienced in 2006.



Electrical Safety Occurrences – May 2007 – as of 5/31 download

No	Report Number	Subject / Title	ew	n-ew	sub	shock	burn	arcf	loto	excav	cut/d	veh
1	EM-RP--BNRP-RPPWTP-2007-0010	Articulating Boom Strikes Electrical Distribution Box		x								
2	NA--LASO-LANL-NUCSAFGRDS-2007-0001	Potential Faulty Wiring Installation Results In LOTO Failure	x						x			
3	NA--LSO-LLNL-LLNL-2007-0026	Contact with 120VAC Electrical Source During Pump Start-up Activity	x			x						
4	NA--PS-BWXP-PANTEX-2007-0065	Wire Disconnected From Solder Joint	x									
5	NA--PS-BWXP-PANTEX-2007-0066	Discovery of Electrical Wires in Building 16-12 Equipment Room Extending Past the Open End of Flexible Conduit		x	x							
6	NA--PS-BWXP-PANTEX-2007-0069	Control Panel Door Found Unsecured	x									
7	NE-ID--BEA-TSD-2007-0001	Unguarded Open Control Panel Exposing Electrical Hazard	x									
8	SC--ASO-ANLE-ANLE-2007-0007	Electrical Near Miss		x								
9	SC--ASO-ANLE-ANLEFMS-2007-0008	Subcontractor Initiates Work Beyond Authorization	x		x							
10	SC--ASO-GOCH-DOEARGONNE-2007-0001	DOE-CH Electrical Near Miss		x								
11	SC--BHSO-BNL-BNL-2007-0008	Ungrounded Neutral Discovered in wye connected output of 13.8kV/208V Dry Type Transformer	x		x							
	Total		7	4	3	1			1			

Key

ew= electrical worker, n-ew = non-electrical worker, sub = subcontractor, arcf = significant arc flash, excav = excavation, cut/d = cutting or drilling, veh = vehicle event

ORPS Operating Experience Report ?

Production GUI - New ORPS

ORPS contains 53238 OR(s) with 56556 occurrences(s) as of 6/6/2007 3:36:53 PM
Query selected 11 OR(s) with 11 occurrences(s) as of 6/6/2007 4:00:00 PM

Download this report in Microsoft Word format. 

1)Report Number:	EM-RP--BNRP-RPPWTP-2007-0010 After 2003 Redesign		
Secretarial Office:	Environmental Management		
Lab/Site/Org:	Hanford Site		
Facility Name:	RPP Waste Treatment Plant		
Subject/Title:	Articulating Boom Strikes Electrical Distribution Box		
Date/Time Discovered:	05/16/2007 14:45 (PTZ)		
Date/Time Categorized:	05/16/2007 15:50 (PTZ)		
Report Type:	Notification		
Report Dates:	Notification	05/23/2007	16:54 (ETZ)
	Initial Update		
	Latest Update		
	Final		
Significance Category:	3		
Reporting Criteria:	10(2) - An event, condition, or series of events that does not meet any of the other reporting criteria, but is determined by the Facility Manager or line management to be of safety significance or of concern to other facilities or activities in the DOE complex. One of the four significance categories should be assigned to the occurrence, based on an evaluation of the potential risks and the corrective actions taken. (1 of 4 criteria - This is a SC 3 occurrence)		
Cause Codes:			
ISM:	2) Analyze the Hazards 3) Develop and Implement Hazard Controls 4) Perform Work Within Controls		
Subcontractor Involved:	No		
Occurrence Description:	<p>At 1435 hours on 16-May, 2007, and ironworker operating an articulating boom lift within the LAB Facility at the Waste Treatment Plant (WTP) struck an electrical distribution box while descending. The area was placed in a safe configuration and secured for investigation. The preliminary investigation determined that there were three individuals acting as spotters present, but as another lift was descending at the same time, the spotting for the lift that struck the box was not adequate.</p> <p>The electrical distribution box suffered damage (a dent ~8" across) to the exterior surfaces, but there was no electrical sparking and the circuit breaker did not trip.</p>		

Cause Description:							
Operating Conditions:	Construction						
Activity Category:	Construction						
Immediate Action(s):	- The area was placed in a safe configuration and secured for investigation. - An investigation was initiated.						
FM Evaluation:							
DOE Facility Representative Input:							
DOE Program Manager Input:							
Further Evaluation is Required:	Yes. Before Further Operation? No By Whom: M. Hood By When:						
Division or Project:	Waste Treatment Plant						
Plant Area:	600						
System/Building/Equipment:	Balance of Facilities						
Facility Function:	Nuclear Waste Operations/Disposal						
Corrective Action:							
Lessons(s) Learned:							
HQ Keywords:	07D--Electrical Systems - Electrical Wiring 08F--OSHA Reportable/Industrial Hygiene - Industrial Operations 08H--OSHA Reportable/Industrial Hygiene - Safety Compliance 08J--OSHA Reportable/Industrial Hygiene - Near Miss (Electrical) 08K--OSHA Reportable/Industrial Hygiene - Near Miss (Other) 12K--EH Categories - Near Miss (Could have been a serious injury or fatality) 13A--Management Concerns - HQ Significant (High-lighted for Management attention) 14E--Quality Assurance - Work Process						
HQ Summary:	An ironworker operating an articulating boom lift within the Hanford LAB Facility at the Waste Treatment Plant struck an electrical distribution box with the boom as it was descending. The electrical distribution box suffered an 8-inch dent but there was no electrical sparking and the circuit breaker did not trip. Three spotters were present during this lift, however they were distracted by another lift at the same time. The area was placed in a safe configuration and secured for investigation						
Similar OR Report Number:							
Facility Manager:	<table border="1"> <tr> <td>Name</td> <td>EDENS, VICTOR G</td> </tr> <tr> <td>Phone</td> <td>(509) 371-2077</td> </tr> <tr> <td>Title</td> <td>Safety Operations Manager</td> </tr> </table>	Name	EDENS, VICTOR G	Phone	(509) 371-2077	Title	Safety Operations Manager
Name	EDENS, VICTOR G						
Phone	(509) 371-2077						
Title	Safety Operations Manager						
Originator:	<table border="1"> <tr> <td>Name</td> <td>EDENS, VICTOR G</td> </tr> </table>	Name	EDENS, VICTOR G				
Name	EDENS, VICTOR G						

	Title			
HQ OC Notification:	Date	Time	Person Notified	Organization
	NA	NA	NA	NA
Other Notifications:	Date	Time	Person Notified	Organization
	05/16/2007	14:45 (PTZ)	M. Hood	BNI/Con
	05/16/2007	14:45 (PTZ)	G. Ceffalo	BNI/Saf
	05/16/2007	14:59 (PTZ)	J. Christ	DOE/FR
	05/16/2007	16:30 (PTZ)	V. Edens	BNI/Saf
	05/16/2007	17:28 (PTZ)	N. Crarry	ONC
Authorized Classifier(AC):				

2)Report Number:	NA--LASO-LANL-NUCSAFGRDS-2007-0001 After 2003 Redesign		
Secretarial Office:	National Nuclear Security Administration		
Lab/Site/Org:	Los Alamos National Laboratory		
Facility Name:	Nuclear Safeguards		
Subject/Title:	Potential Faulty Wiring Installation Results In LOTO Failure		
Date/Time Discovered:	05/03/2007 11:55 (MTZ)		
Date/Time Categorized:	05/03/2007 12:05 (MTZ)		
Report Type:	Notification		
Report Dates:	Notification	05/07/2007	19:21 (ETZ)
	Initial Update		
	Latest Update		
	Final		
Significance Category:	3		
Reporting Criteria:	10(2) - An event, condition, or series of events that does not meet any of the other reporting criteria, but is determined by the Facility Manager or line management to be of safety significance or of concern to other facilities or activities in the DOE complex. One of the four significance categories should be assigned to the occurrence, based on an evaluation of the potential risks and the corrective actions taken. (1 of 4 criteria - This is a SC 3 occurrence)		
Cause Codes:			
ISM:			
Subcontractor Involved:	No		
Occurrence Description:	Management Synopsis: On May 3, 2007, management identified a concern related to potentially faulty wiring at the Nonproliferation and International Security Center (NISC) which resulted in a failed Lock Out/Tag Out (LOTO). On May 1, 2007, a Prototype Fabrication (PF) electrician was performing a zero energy check on equipment he had locked and tagged out when he discovered the piece of equipment was still energized. The electrician found 120V on the neutral wire. The electrician obtained a second voltmeter and verified the equipment was still energized. He, along with a co-worker, identified a second		

	<p>piece of equipment that was on the same 208 volt bus. They performed LOTO on the bus for the second piece of equipment which successfully de-energized the breaker. At 1545 on May 1, the NISC Operations Manager submitted an engineering service request (ESR) for an electrical system evaluation in room 1828A.</p> <p>On May 3, 2007, the facility electrical safety officer (ESO)/deployed electrical engineer determined the LOTO failed because the neutral was not grounded or bonded properly. This resulted in a floating (ungrounded) system instead of a grounded system as intended by facility design specifications. He also determined that the neutral wire was not the correct color (white) in accordance with National Electric Code (NEC) standards. Instead, the white wire was phased and the neutral wire had been taped blue. Additionally, the labeling on the machine, breaker, and transformers were not correct. The FOD ESO determined that equipment case grounds had been properly installed.</p> <p>Background: The PF electrician followed LOTO procedures to include using proper personal protective equipment (PPE) (dielectric gloves rated from 0-1000 volts, flash hood and flash vest). He entered the work activity on the LOTO log and performed LOTO on the equipment. He checked all four wires including the three phased wires and the neutral wire. He discovered the unexpected voltage when he checked the neutral wire which led to the discovery of the faulty wiring. Notifications during this event were made promptly and appropriately.</p>
Cause Description:	
Operating Conditions:	Normal
Activity Category:	Maintenance
Immediate Action(s):	<ol style="list-style-type: none"> 1) The breakers for both pieces of equipment were immediately locked out. 2) Management stopped work activities involving equipment on the 208 volt system in room 1828 until repairs could be made. 3) Management directed an independent electrical inspection for NISC facility. 4) Management directed a review of electrical system labels.
FM Evaluation:	
DOE Facility Representative Input:	
DOE Program Manager Input:	
Further Evaluation is Required:	<p>Yes.</p> <p>Before Further Operation? No</p> <p>By Whom: TRP and QA-OA</p> <p>By When: 06/15/2007</p>
Division or Project:	Nuclear Nonproliferation (N) Division
Plant Area:	machine shop
System/Building/Equipment:	Bldg Electrical system/TA3-2322/machine shop
Facility Function:	Laboratory - Research & Development
Corrective Action:	
Lessons(s) Learned:	
HQ Keywords:	<p>01B--Conduct of Operations - Configuration Management/Control</p> <p>07D--Electrical Systems - Electrical Wiring</p>

	12C--EH Categories - Electrical Safety 14D--Quality Assurance - Documents and Records																
HQ Summary:	An electrician at the LANL Nonproliferation and International Security Center performed a zero energy check that measured 120 volts on the neutral wire for a piece of equipment he had locked and tagged out (LOTO). He and a co-worker identified a second piece of equipment that was on the same 208 volt bus. They locked out the circuit breaker for the second piece of equipment and this de-energized the neutral wire. An investigation by an electrical engineer determined the LOTO failed because the neutral wire was not grounded or bonded properly. Also, the color of the neutral wire and the labeling on the machine, breaker, and transformers were not correct.																
Similar OR Report Number:																	
Facility Manager:	<table border="1"> <tr> <td>Name</td> <td>Gail Johnson</td> </tr> <tr> <td>Phone</td> <td>(505) 667-4362</td> </tr> <tr> <td>Title</td> <td>FOD</td> </tr> </table>	Name	Gail Johnson	Phone	(505) 667-4362	Title	FOD										
Name	Gail Johnson																
Phone	(505) 667-4362																
Title	FOD																
Originator:	<table border="1"> <tr> <td>Name</td> <td>HAKONSON-HAYES, AUDREY C</td> </tr> <tr> <td>Phone</td> <td>(505) 667-9364</td> </tr> <tr> <td>Title</td> <td>OCCURRENCE INVESTIGATOR</td> </tr> </table>	Name	HAKONSON-HAYES, AUDREY C	Phone	(505) 667-9364	Title	OCCURRENCE INVESTIGATOR										
Name	HAKONSON-HAYES, AUDREY C																
Phone	(505) 667-9364																
Title	OCCURRENCE INVESTIGATOR																
HQ OC Notification:	<table border="1"> <tr> <td>Date</td> <td>Time</td> <td>Person Notified</td> <td>Organization</td> </tr> <tr> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> </table>	Date	Time	Person Notified	Organization	NA	NA	NA	NA								
Date	Time	Person Notified	Organization														
NA	NA	NA	NA														
Other Notifications:	<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Person Notified</th> <th>Organization</th> </tr> </thead> <tbody> <tr> <td>05/03/2007</td> <td>12:05 (MTZ)</td> <td>Myra</td> <td>NNSA</td> </tr> <tr> <td>05/04/2007</td> <td>09:32 (MTZ)</td> <td>Cordell Myer</td> <td>PAAA</td> </tr> <tr> <td>05/04/2007</td> <td>09:34 (MTZ)</td> <td>Carl Geisik</td> <td>IHS</td> </tr> </tbody> </table>	Date	Time	Person Notified	Organization	05/03/2007	12:05 (MTZ)	Myra	NNSA	05/04/2007	09:32 (MTZ)	Cordell Myer	PAAA	05/04/2007	09:34 (MTZ)	Carl Geisik	IHS
Date	Time	Person Notified	Organization														
05/03/2007	12:05 (MTZ)	Myra	NNSA														
05/04/2007	09:32 (MTZ)	Cordell Myer	PAAA														
05/04/2007	09:34 (MTZ)	Carl Geisik	IHS														
Authorized Classifier(AC):	Antonia Tallarico Date: 05/05/2007																

3)Report Number:	NA--LSO-LLNL-LLNL-2007-0026 After 2003 Redesign		
Secretarial Office:	National Nuclear Security Administration		
Lab/Site/Org:	Lawrence Livermore National Lab.		
Facility Name:	Lawrence Livermore Nat. Lab. (BOP)		
Subject/Title:	Contact with 120VAC Electrical Source During Pump Start-up Activity		
Date/Time Discovered:	05/04/2007 14:40 (PTZ)		
Date/Time Categorized:	05/07/2007 10:30 (PTZ)		
Report Type:	Notification		
Report Dates:	Notification	05/08/2007	11:06 (ETZ)
	Initial Update		
	Latest Update		
	Final		
Significance Category:	2		
Reporting Criteria:	2C(1) - Failure to follow a prescribed hazardous energy control process (e.g., lockout/tagout) or disturbance of a previously unknown or mislocated hazardous		

	energy source (e.g., live electrical power circuit, steam line, pressurized gas) resulting in a person contacting (burn, shock, etc.) hazardous energy.
Cause Codes:	
ISM:	
Subcontractor Involved:	No
Occurrence Description:	<p>On May 4, 2007 in Building 391 Room B350A, a worker contacted a 120VAC source while starting a new cooling system and received a minor shock on his left index finger.</p> <p>As part of setting up a new cooling system, a worker removed the cover of a small motor and pump assembly. The worker then inadvertently placed his left hand over both spade connectors of the electrical switch connecting to the motor as he energized the motor and pump with the rocker switch using his right hand. The worker immediately felt an electrical shock to his left index finger and therefore quickly removed his hand. The worker announced to fellow workers that he had received a shock. The co-workers immediately called 911. A Laboratory response team arrived within five minutes and transported the worker to the on-site medical facility. At the on-site medical facility, the worker was examined, was determined to have no injury, and was returned to work at approximately 1600 hours with no restrictions.</p> <p>On May 7, 2006, the NIF Directorate Electrical Safety Officer and the Laboratory AHJ completed the calculations to determine reportability in accordance with EFCOG guidelines for "hazardous" energy, and determined that the event meets the "hazardous" threshold for reportability.</p>
Cause Description:	
Operating Conditions:	na
Activity Category:	Normal Operations (other than Activities specifically listed in this Category)
Immediate Action(s):	Co-workers in the area called 911. The worker was transported to the on-site medical facility for evaluation. NIF management stopped work, barricaded the area, and initiated an investigation.
FM Evaluation:	Final Report due June 20, 2007
DOE Facility Representative Input:	
DOE Program Manager Input:	
Further Evaluation is Required:	Yes. Before Further Operation? No By Whom: Rob Broderick By When: 06/20/2007
Division or Project:	NIF
Plant Area:	Site 200
System/Building/Equipment:	391
Facility Function:	Laboratory - Research & Development
Corrective Action:	
Lessons(s) Learned:	

HQ Keywords:	01A--Conduct of Operations - Conduct of Operations (miscellaneous) 01Q--Conduct of Operations - Personnel error 08A--OSHA Reportable/Industrial Hygiene - Electrical Shock 12C--EH Categories - Electrical Safety 13A--Management Concerns - HQ Significant (High-lighted for Management attention) 14E--Quality Assurance - Work Process								
HQ Summary:	While setting up a new cooling system in LLNL Building 391, a worker inadvertently placed his hand over both spade connectors of an electrical switch for a motor and received a 120 VAC electrical shock to his index finger. A response team transported the worker to the on-site medical facility, which found no injury and returned him to work with no restrictions. Management stopped work, barricaded the area, and initiated an investigation.								
Similar OR Report Number:	1. na								
Facility Manager:	<table border="1"> <tr> <td>Name</td> <td>Rob Broderick</td> </tr> <tr> <td>Phone</td> <td>(925) 423-7775</td> </tr> <tr> <td>Title</td> <td>NIF Directorate Deputy Associate Director for Oper</td> </tr> </table>	Name	Rob Broderick	Phone	(925) 423-7775	Title	NIF Directorate Deputy Associate Director for Oper		
Name	Rob Broderick								
Phone	(925) 423-7775								
Title	NIF Directorate Deputy Associate Director for Oper								
Originator:	<table border="1"> <tr> <td>Name</td> <td>ECCHER, BARBARA A</td> </tr> <tr> <td>Phone</td> <td>(925) 422-9332</td> </tr> <tr> <td>Title</td> <td>OCCURRENCE REPORTING OFFICER</td> </tr> </table>	Name	ECCHER, BARBARA A	Phone	(925) 422-9332	Title	OCCURRENCE REPORTING OFFICER		
Name	ECCHER, BARBARA A								
Phone	(925) 422-9332								
Title	OCCURRENCE REPORTING OFFICER								
HQ OC Notification:	<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Person Notified</th> <th>Organization</th> </tr> </thead> <tbody> <tr> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table>	Date	Time	Person Notified	Organization	NA	NA	NA	NA
Date	Time	Person Notified	Organization						
NA	NA	NA	NA						
Other Notifications:	<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Person Notified</th> <th>Organization</th> </tr> </thead> <tbody> <tr> <td>05/07/2007</td> <td>13:00 (PTZ)</td> <td>David Corporandy</td> <td>NNSA/LSO</td> </tr> </tbody> </table>	Date	Time	Person Notified	Organization	05/07/2007	13:00 (PTZ)	David Corporandy	NNSA/LSO
Date	Time	Person Notified	Organization						
05/07/2007	13:00 (PTZ)	David Corporandy	NNSA/LSO						
Authorized Classifier(AC):									

4)Report Number:	NA--PS-BWXP-PANTEX-2007-0065 After 2003 Redesign		
Secretarial Office:	National Nuclear Security Administration		
Lab/Site/Org:	Pantex Plant		
Facility Name:	Pantex Plant		
Subject/Title:	Wire Disconnected From Solder Joint		
Date/Time Discovered:	05/16/2007 14:30 (CTZ)		
Date/Time Categorized:	05/17/2007 09:30 (CTZ)		
Report Type:	Notification		
Report Dates:	Notification	05/21/2007	12:02 (ETZ)
	Initial Update		
	Latest Update		
	Final		
Significance Category:	3		
Reporting Criteria:	2C(2) - Failure to follow a prescribed hazardous energy control process (e.g., lockout/tagout) or a site condition that results in the unexpected discovery of an uncontrolled hazardous energy source (e.g., live electrical power circuit, steam		

	line, pressurized gas). This criterion does not include discoveries made by zero-energy checks and other precautionary investigations made before work is authorized to begin.
Cause Codes:	
ISM:	2) Analyze the Hazards
Subcontractor Involved:	No
Occurrence Description:	<p>On May 16, 2007, at approximately 1430 hours, A BWXT Instrument Technician was performing an annual preventive maintenance (PM) activity on a steam oven in Building 12-19E. As part of the PM, the Instrument Technician is required to visually verify a setting on a timer located inside a control panel. As the technician opened the hinged control panel door to perform the visual observation, a small spark was noticed from inside the control panel. The spark was created when a 110-volt wire dislodged from a reset switch solder joint and made contact with the panel door. The panel door had moved less than two inches when the spark was observed. The technician immediately placed the system in a safe configuration by closing the door, de-energizing, and locking out the circuit. The technician then notified his supervisor and remained at the incident site to control the scene. BWXT Safety personnel and maintenance management were notified and responded to the scene to begin the investigation process.</p> <p>There was no injury or equipment damage as a result of this event. The breaker feeding the circuit did not trip during the event. As specified in the work package, the technician was wearing the flame resistant coveralls, voltage rated gloves, safety shoes, and safety glasses when the panel door was opened.</p>
Cause Description:	
Operating Conditions:	Operational
Activity Category:	Maintenance
Immediate Action(s):	<p>Instrument Technician de-energized and locked out circuits feeding the steam oven control panel at Building 12-19E.</p> <p>A critique was conducted on May 17, 2007, and the event was categorized as 2C(2) S/C 3, Personnel Safety and Health, Hazardous Energy Control, a site condition that results in the unexpected discovery of an uncontrolled hazardous energy source.</p>
FM Evaluation:	Corrective actions will be tracked through the Issues Management System on PER-2007-0554.
DOE Facility Representative Input:	
DOE Program Manager Input:	
Further Evaluation is Required:	<p>Yes. Before Further Operation? No By Whom: Plant Maintenance Dept. By When:</p>
Division or Project:	Maintenance Division
Plant Area:	Zone 12 North

System/Building/Equipment:	12-19E														
Facility Function:	Balance of Plant - Infrastructure (Other Functions not specifically listed in this Category)														
Corrective Action:															
Lessons(s) Learned:															
HQ Keywords:	07D--Electrical Systems - Electrical Wiring 12C--EH Categories - Electrical Safety 14L--Quality Assurance - None														
HQ Summary:	While performing annual preventive maintenance on a steam oven in Pantex Building 12-19E, an instrument technician opened a control panel door and noticed a spark inside the panel. The technician closed the door and de-energized and locked-out circuits to the panel. An investigation found that spark was created when a 110-volt wire dislodged from a reset switch solder joint and made contact with the panel door														
Similar OR Report Number:	1. None														
Facility Manager:	<table border="1"> <tr> <td>Name</td> <td colspan="3">Dale Stapp</td> </tr> <tr> <td>Phone</td> <td colspan="3">(806) 477-3247</td> </tr> <tr> <td>Title</td> <td colspan="3">Plant Maintenance Department Manager</td> </tr> </table>			Name	Dale Stapp			Phone	(806) 477-3247			Title	Plant Maintenance Department Manager		
Name	Dale Stapp														
Phone	(806) 477-3247														
Title	Plant Maintenance Department Manager														
Originator:	<table border="1"> <tr> <td>Name</td> <td colspan="3">HALL, BEVERLY J</td> </tr> <tr> <td>Phone</td> <td colspan="3">(806) 477-3222</td> </tr> <tr> <td>Title</td> <td colspan="3"></td> </tr> </table>			Name	HALL, BEVERLY J			Phone	(806) 477-3222			Title			
Name	HALL, BEVERLY J														
Phone	(806) 477-3222														
Title															
HQ OC Notification:	<table border="1"> <tr> <td>Date</td> <td>Time</td> <td>Person Notified</td> <td>Organization</td> </tr> <tr> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> </table>			Date	Time	Person Notified	Organization	NA	NA	NA	NA				
Date	Time	Person Notified	Organization												
NA	NA	NA	NA												
Other Notifications:	<table border="1"> <tr> <td>Date</td> <td>Time</td> <td>Person Notified</td> <td>Organization</td> </tr> <tr> <td>05/16/2007</td> <td>14:50 (CTZ)</td> <td>Scott Kennedy</td> <td>BWXT</td> </tr> <tr> <td>05/16/2007</td> <td>14:50 (CTZ)</td> <td>Noel Williams</td> <td>PXSO</td> </tr> </table>			Date	Time	Person Notified	Organization	05/16/2007	14:50 (CTZ)	Scott Kennedy	BWXT	05/16/2007	14:50 (CTZ)	Noel Williams	PXSO
Date	Time	Person Notified	Organization												
05/16/2007	14:50 (CTZ)	Scott Kennedy	BWXT												
05/16/2007	14:50 (CTZ)	Noel Williams	PXSO												
Authorized Classifier(AC):	Don Gerber Date: 05/21/2007														

5)Report Number:	NA--PS-BWXP-PANTEX-2007-0066 After 2003 Redesign														
Secretarial Office:	National Nuclear Security Administration														
Lab/Site/Org:	Pantex Plant														
Facility Name:	Pantex Plant														
Subject/Title:	Discovery of Electrical Wires in Building 16-12 Equipment Room Extending Past the Open End of Flexible Conduit														
Date/Time Discovered:	05/16/2007 20:30 (CTZ)														
Date/Time Categorized:	05/17/2007 16:30 (CTZ)														
Report Type:	Notification														
Report Dates:	<table border="1"> <tr> <td>Notification</td> <td>05/21/2007</td> <td>12:04 (ETZ)</td> </tr> <tr> <td>Initial Update</td> <td></td> <td></td> </tr> <tr> <td>Latest Update</td> <td></td> <td></td> </tr> <tr> <td>Final</td> <td></td> <td></td> </tr> </table>			Notification	05/21/2007	12:04 (ETZ)	Initial Update			Latest Update			Final		
Notification	05/21/2007	12:04 (ETZ)													
Initial Update															
Latest Update															
Final															

Significance Category:	3
Reporting Criteria:	2C(2) - Failure to follow a prescribed hazardous energy control process (e.g., lockout/tagout) or a site condition that results in the unexpected discovery of an uncontrolled hazardous energy source (e.g., live electrical power circuit, steam line, pressurized gas). This criterion does not include discoveries made by zero-energy checks and other precautionary investigations made before work is authorized to begin.
Cause Codes:	
ISM:	3) Develop and Implement Hazard Controls
Subcontractor Involved:	Yes Noresco
Occurrence Description:	<p>On May 16, 2007, at approximately 2030 hours, a Subcontractor employee was performing a work site survey when he noticed a flexible metal conduit with 3 wires extending past the open end of the conduit. Two of the three wires were covered on the ends with plastic wire nuts. The wire without the wire nut covering was a ground wire. All circuits in the area had been de-energized and locked out at the time of discovery. A BWXT Safety Representative and Plant Maintenance Department personnel responded to the area, developed an approved work order, and corrected the condition.</p> <p>There was no injury to personnel, impact to the environment, or degradation of a safety system as a result of this event.</p>
Cause Description:	
Operating Conditions:	Does Not Apply
Activity Category:	Maintenance
Immediate Action(s):	<p>Plant Maintenance Department personnel developed an approved work package to remove the wiring and flexible conduit to correct the condition.</p> <p>A critique was conducted on May 17, 2007, and the event was categorized as 2C(2) S/C 3, Personnel Safety and Health, Hazardous Energy Control, a site condition that results in the unexpected discovery of an uncontrolled hazardous energy source.</p>
FM Evaluation:	Corrective actions will be tracked through the Issues Management System on PER-2007-0557.
DOE Facility Representative Input:	
DOE Program Manager Input:	
Further Evaluation is Required:	<p>Yes. Before Further Operation? No By Whom: Plant Maintenance Dept. By When:</p>
Division or Project:	Maintenance Division
Plant Area:	Zone 16
System/Building/Equipment:	16-12 Upstairs Equipment Room
Facility Function:	Balance of Plant - Infrastructure (Other Functions not specifically listed in this Category)

Corrective Action:																	
Lessons(s) Learned:																	
HQ Keywords:	07D--Electrical Systems - Electrical Wiring 12C--EH Categories - Electrical Safety 14L--Quality Assurance - None																
HQ Summary:	While performing a work site survey in Pantex Building 16-12, a worker discovered a flexible metal conduit with three wires extending past the open end of the conduit. All circuits in the area had been de-energized and locked-out at the time of discovery. Personnel from the plant maintenance department developed a work package to remove the wiring and flexible conduit.																
Similar OR Report Number:	1. None																
Facility Manager:	<table border="1"> <tr> <td>Name</td> <td>Dale Stapp</td> </tr> <tr> <td>Phone</td> <td>(806) 477-3247</td> </tr> <tr> <td>Title</td> <td>Plant Maintenance Department Manager</td> </tr> </table>	Name	Dale Stapp	Phone	(806) 477-3247	Title	Plant Maintenance Department Manager										
Name	Dale Stapp																
Phone	(806) 477-3247																
Title	Plant Maintenance Department Manager																
Originator:	<table border="1"> <tr> <td>Name</td> <td>HALL, BEVERLY J</td> </tr> <tr> <td>Phone</td> <td>(806) 477-3222</td> </tr> <tr> <td>Title</td> <td></td> </tr> </table>	Name	HALL, BEVERLY J	Phone	(806) 477-3222	Title											
Name	HALL, BEVERLY J																
Phone	(806) 477-3222																
Title																	
HQ OC Notification:	<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Person Notified</th> <th>Organization</th> </tr> </thead> <tbody> <tr> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table>	Date	Time	Person Notified	Organization	NA	NA	NA	NA								
Date	Time	Person Notified	Organization														
NA	NA	NA	NA														
Other Notifications:	<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Person Notified</th> <th>Organization</th> </tr> </thead> <tbody> <tr> <td>05/16/2007</td> <td>23:05 (CTZ)</td> <td>Noel Williams</td> <td>PXSO</td> </tr> <tr> <td>05/16/2007</td> <td>23:05 (CTZ)</td> <td>Scott Kennedy</td> <td>BWXT</td> </tr> <tr> <td>05/16/2007</td> <td>23:05 (CTZ)</td> <td>Bill Mairson</td> <td>BWXT</td> </tr> </tbody> </table>	Date	Time	Person Notified	Organization	05/16/2007	23:05 (CTZ)	Noel Williams	PXSO	05/16/2007	23:05 (CTZ)	Scott Kennedy	BWXT	05/16/2007	23:05 (CTZ)	Bill Mairson	BWXT
Date	Time	Person Notified	Organization														
05/16/2007	23:05 (CTZ)	Noel Williams	PXSO														
05/16/2007	23:05 (CTZ)	Scott Kennedy	BWXT														
05/16/2007	23:05 (CTZ)	Bill Mairson	BWXT														
Authorized Classifier(AC):	Don Gerber Date: 05/21/2007																

6)Report Number:	NA--PS-BWXP-PANTEX-2007-0069 After 2003 Redesign		
Secretarial Office:	National Nuclear Security Administration		
Lab/Site/Org:	Pantex Plant		
Facility Name:	Pantex Plant		
Subject/Title:	Control Panel Door Found Unsecured		
Date/Time Discovered:	05/29/2007 16:45 (CTZ)		
Date/Time Categorized:	05/30/2007 14:06 (CTZ)		
Report Type:	Notification		
Report Dates:	Notification	05/31/2007	15:36 (ETZ)
	Initial Update		
	Latest Update		
	Final		
Significance Category:	3		
Reporting Criteria:	2C(2) - Failure to follow a prescribed hazardous energy control process (e.g., lockout/tagout) or a site condition that results in the unexpected discovery of an uncontrolled hazardous energy source (e.g., live electrical power circuit, steam		

	line, pressurized gas). This criterion does not include discoveries made by zero-energy checks and other precautionary investigations made before work is authorized to begin.
Cause Codes:	
ISM:	6) N/A (Not applicable to ISM Core Functions as determined by management review.)
Subcontractor Involved:	No
Occurrence Description:	<p>On May 29, 2007, at approximately 1645 hours, Swing Shift Material Access Area (MAA) Electronic Technicians entered the facility and noticed a 480-volt control cabinet to a sand blast booth had been left unsecured. The disconnect was in the "OFF" position. The control panel was energized on the line side of a fuse block, which was shielded. There were no exposed bare conductors. The primary concern was the door being left unsecured. The design of the cabinet requires the door to be latched shut to provide protection for personnel if there is a catastrophic failure of electrical components mounted inside the cabinet.</p> <p>There was no injury to personnel, or damage to the equipment or environment as a result of this event.</p>
Cause Description:	
Operating Conditions:	Operational with no special nuclear material or high explosives in the area.
Activity Category:	Normal Operations (other than Activities specifically listed in this Category)
Immediate Action(s):	<p>Swing Shift MAA Crafts personnel tested the control panel for voltage.</p> <p>Swing Shift MAA Craft Supervisor secured the control cabinet.</p> <p>A critique was conducted on May 30, 2007, and the event was categorized as 2C(2) S/C 3, Personnel Safety and Health, Hazardous Energy Control, Failure to follow a prescribed hazardous energy control process.</p>
FM Evaluation:	Corrective actions will be tracked through the Issues Management System on PER-2007-0582.
DOE Facility Representative Input:	
DOE Program Manager Input:	
Further Evaluation is Required:	<p>Yes.</p> <p>Before Further Operation? Yes</p> <p>By Whom: Plant Maintenance</p> <p>By When: 07/13/2007</p>
Division or Project:	Maintenance Division
Plant Area:	Zone 12 South MAA
System/Building/Equipment:	Zone 12 South MAA Facility
Facility Function:	Balance of Plant - Infrastructure (Other Functions not specifically listed in this Category)
Corrective Action:	
Lessons(s) Learned:	
HQ Keywords:	08H--OSHA Reportable/Industrial Hygiene - Safety Compliance

	12C--EH Categories - Electrical Safety 14E--Quality Assurance - Work Process												
HQ Summary:	Electronic technicians entering the Material Access Area noticed a 480-volt control cabinet for a sand blast booth had been left unsecured. The cabinet was secured and a critique was held.												
Similar OR Report Number:													
Facility Manager:	<table border="1"> <tr> <td>Name</td> <td>Dale Stapp</td> </tr> <tr> <td>Phone</td> <td>(806) 477-3247</td> </tr> <tr> <td>Title</td> <td>Plant Maintenance Department Manager</td> </tr> </table>	Name	Dale Stapp	Phone	(806) 477-3247	Title	Plant Maintenance Department Manager						
Name	Dale Stapp												
Phone	(806) 477-3247												
Title	Plant Maintenance Department Manager												
Originator:	<table border="1"> <tr> <td>Name</td> <td>HALL, BEVERLY J</td> </tr> <tr> <td>Phone</td> <td>(806) 477-3222</td> </tr> <tr> <td>Title</td> <td></td> </tr> </table>	Name	HALL, BEVERLY J	Phone	(806) 477-3222	Title							
Name	HALL, BEVERLY J												
Phone	(806) 477-3222												
Title													
HQ OC Notification:	<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Person Notified</th> <th>Organization</th> </tr> </thead> <tbody> <tr> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table>	Date	Time	Person Notified	Organization	NA	NA	NA	NA				
Date	Time	Person Notified	Organization										
NA	NA	NA	NA										
Other Notifications:	<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Person Notified</th> <th>Organization</th> </tr> </thead> <tbody> <tr> <td>05/29/2007</td> <td>17:11 (CTZ)</td> <td>John Thurston</td> <td>PXSO</td> </tr> <tr> <td>05/29/2007</td> <td>17:11 (CTZ)</td> <td>Jeff Yarbrough</td> <td>BWXT</td> </tr> </tbody> </table>	Date	Time	Person Notified	Organization	05/29/2007	17:11 (CTZ)	John Thurston	PXSO	05/29/2007	17:11 (CTZ)	Jeff Yarbrough	BWXT
Date	Time	Person Notified	Organization										
05/29/2007	17:11 (CTZ)	John Thurston	PXSO										
05/29/2007	17:11 (CTZ)	Jeff Yarbrough	BWXT										
Authorized Classifier(AC):	Don Gerber Date: 05/31/2007												

7)Report Number:	NE-ID--BEA-TSD-2007-0001 After 2003 Redesign		
Secretarial Office:	Nuclear Energy, Science and Technology		
Lab/Site/Org:	Idaho National Laboratory		
Facility Name:	Treatment Storage and Disposal		
Subject/Title:	Unguarded Open Control Panel Exposing Electrical Hazard		
Date/Time Discovered:	05/23/2007 14:15 (MTZ)		
Date/Time Categorized:	05/23/2007 17:45 (MTZ)		
Report Type:	Update		
Report Dates:	Notification	05/29/2007	13:02 (ETZ)
	Initial Update	05/29/2007	14:18 (ETZ)
	Latest Update	05/29/2007	14:18 (ETZ)
	Final		
Significance Category:	3		
Reporting Criteria:	2C(2) - Failure to follow a prescribed hazardous energy control process (e.g., lockout/tagout) or a site condition that results in the unexpected discovery of an uncontrolled hazardous energy source (e.g., live electrical power circuit, steam line, pressurized gas). This criterion does not include discoveries made by zero-energy checks and other precautionary investigations made before work is authorized to begin.		
Cause Codes:			
ISM:	3) Develop and Implement Hazard Controls		

	4) Perform Work Within Controls
Subcontractor Involved:	No
Occurrence Description:	On May 23, 2007, the DOE-ID facility representatives for MFC identified an unguarded open control panel containing <120V energized electrical circuits. Maintenance was performing calibrations on Sodium Components Maintenance Shop (SCMS) alcohol level systems. The facility representatives approached the open control panel and found no one was in attendance and no barrier was in place. Shortly thereafter, maintenance personnel returned to the open control panel and closed the panel doors, eliminating the exposed energized electrical hazards. DOE-ID personnel questioned maintenance personnel about voltages present in the control panel. Maintenance workers indicated that 110-120 volts was present in the panel. Workers had been trained on the electrical hazards and were wearing the appropriate PPE for 120 volt circuits while working in the cabinet. The maintenance worker had left the work site to obtain assistance from a Health Physics Technician and failed to close the control panel doors.
Cause Description:	
Operating Conditions:	Shutdown
Activity Category:	Maintenance
Immediate Action(s):	1) Control panel doors were shut, calibration work was stopped and appropriate levels of BEA management were notified. 2) Area was secured and barriers installed across the control panel doors to prevent access to the area and control panel 3)A critique was held on May 23, 2007.
FM Evaluation:	5/29/07 Updated correct notification time for BEA management, wrong notification time submitted in error.
DOE Facility Representative Input:	
DOE Program Manager Input:	
Further Evaluation is Required:	No
Division or Project:	Nuclear Experimenter Facilites
Plant Area:	SCMS
System/Building/Equipment:	BLDG. 793
Facility Function:	Irradiated Fissile Material Storage
Corrective Action:	
Lessons(s) Learned:	
HQ Keywords:	01O--Conduct of Operations - Maintenance 08H--OSHA Reportable/Industrial Hygiene - Safety Compliance 12C--EH Categories - Electrical Safety 14E--Quality Assurance - Work Process
HQ Summary:	While maintenance personnel were calibrating alcohol level systems at the INL Sodium Components Maintenance Shop, facility representatives found an open control panel with 110-120 volt energized circuits and no one in attendance, and no barrier in place. When the maintenance workers returned, the control panel doors were shut and calibration work was stopped. The area was secured and barriers were installed across the control panel doors to prevent access.

Similar OR Report Number:	1. NE-ID--BEA-FCF-2006-0002			
	2. NE-ID--BEA-MFC-2006-0006			
Facility Manager:	Name	FLATTEN, LOREN R		
	Phone	(208) 533-7680		
	Title	OPERATIONS STAFF SPECIALIST - TSD FA		
Originator:	Name	FLATTEN, LOREN R		
	Phone	(208) 533-7680		
	Title	OPERATIONS STAFF SPECIALIST - TSD FA		
HQ OC Notification:	Date	Time	Person Notified	Organization
	NA	NA	NA	NA
Other Notifications:	Date	Time	Person Notified	Organization
	05/23/2007	17:45 (MTZ)	R. Chase	MFC
	05/23/2007	18:15 (MTZ)	J. Martin	DOE-ID
Authorized Classifier(AC):				

8)Report Number:	SC--ASO-ANLE-ANLE-2007-0007 After 2003 Redesign		
Secretarial Office:	Science		
Lab/Site/Org:	Argonne National Laboratory East		
Facility Name:	Argonne National Lab. - East (BOP)		
Subject/Title:	Electrical Near Miss		
Date/Time Discovered:	05/02/2007 11:11 (CTZ)		
Date/Time Categorized:	05/02/2007 13:31 (CTZ)		
Report Type:	Notification		
Report Dates:	Notification	05/04/2007	17:46 (ETZ)
	Initial Update		
	Latest Update		
	Final		
Significance Category:	3		
Reporting Criteria:	10(3) - A near miss, where no barrier or only one barrier prevented an event from having a reportable consequence. One of the four significance categories should be assigned to the near miss, based on an evaluation of the potential risks and the corrective actions taken. (1 of 4 criteria - This is a SC 3 occurrence)		
Cause Codes:			
ISM:	3) Develop and Implement Hazard Controls		
Subcontractor Involved:	No		
Occurrence Description:	On May 2, 2007, a child at the ANL Daycare Center holding a metal cymbal by a wooden handle contacted the interface between a plug and a GFCI outlet for an adjacent fish tank. The teacher heard a pop and observed resulting sparks from where the metal cymbal contacted a blade and the ground on the plug. The outlet short-circuited causing the circuit breaker to trip. A 9-1-1 call was		

	<p>initiated and the child was evaluated by the Argonne Fire Department paramedics and was determined to be unaffected; the child did not receive an electrical shock as a result of this incident.</p> <p>An outlet box cover has been installed on this outlet and the facility is being inspected to identify additional installation opportunities for outlet box covers on any outlets that are within reach of children and that are regularly used (i.e., something plugged into them instead of only an outlet cover).</p> <p>The Site Office staff visited the Daycare Center to verify the installation of the tamper-resistant covers on all accessible receptacles. The ANL Daycare Center is accredited by the National Association for the Education of Young Children (NAEYC). A letter was sent out to all the parents, and the Laboratory will provide a presentation to the children of the daycare on electrical safety similar to what is provided to the children on fire protection.</p>
Cause Description:	
Operating Conditions:	Normal Operations
Activity Category:	Normal Operations (other than Activities specifically listed in this Category)
Immediate Action(s):	<p>A 9-1-1 call was initiated and the child was evaluated by the Argonne Fire Department paramedics and was determined to be unaffected; the child did not receive an electrical shock as a result of this incident.</p> <p>An outlet box cover has been installed on this outlet and the facility is being inspected to identify additional installation opportunities for outlet box covers on any outlets that are within reach of children and that are regularly used (i.e., something plugged into them instead of only an outlet cover).</p>
FM Evaluation:	
DOE Facility Representative Input:	
DOE Program Manager Input:	
Further Evaluation is Required:	<p>Yes.</p> <p>Before Further Operation? No</p> <p>By Whom: D. Whitaker-Sheppard</p> <p>By When:</p>
Division or Project:	NA
Plant Area:	900 Area
System/Building/Equipment:	952 Daycare Center
Facility Function:	Balance of Plant - Infrastructure (Other Functions not specifically listed in this Category)
Corrective Action:	
Lessons(s) Learned:	
HQ Keywords:	<p>07D--Electrical Systems - Electrical Wiring</p> <p>08H--OSHA Reportable/Industrial Hygiene - Safety Compliance</p> <p>08J--OSHA Reportable/Industrial Hygiene - Near Miss (Electrical)</p> <p>12K--EH Categories - Near Miss (Could have been a serious injury or fatality)</p> <p>13A--Management Concerns - HQ Significant (High-lighted for Management attention)</p> <p>14E--Quality Assurance - Work Process</p>

HQ Summary: A child at the ANL Daycare Center held a metal cymbal by a wooden handle and contacted the interface between a plug and a GFCI outlet for a fish tank. This caused a pop and sparks where the metal cymbal contacted a blade and the ground on the plug, and the circuit breaker tripped. Argonne Fire Department paramedics were summoned and determined that the child did not receive an electrical shock. An outlet box cover has been installed on this outlet and the facility is being inspected to identify additional outlets that are within the reach of children.

Similar OR Report Number:

Facility Manager:

Name	WHITAKER-SHEPPARD, DANNY
Phone	(630) 252-1581
Title	ENVIR, SFTY, HEALTH & QUALITY ASSUR

Originator:

Name	COLGLAZIER, ROBIN ALAN
Phone	(630) 252-8747
Title	SR REGULATORY COMPLIANCE SPECIALIST

HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

Other Notifications:

Date	Time	Person Notified	Organization
05/02/2007	12:54 (CTZ)	S. Meredith	EQO
05/02/2007	12:58 (CTZ)	R. Colglazier	EQO
05/02/2007	14:10 (CTZ)	C. Zook	DOE-ASO

Authorized Classifier(AC):

9)Report Number:	SC--ASO-ANLE-ANLEFMS-2007-0008 After 2003 Redesign		
Secretarial Office:	Science		
Lab/Site/Org:	Argonne National Laboratory East		
Facility Name:	Facility Management Services		
Subject/Title:	Subcontractor Initiates Work Beyond Authorization		
Date/Time Discovered:	05/10/2007 12:30 (CTZ)		
Date/Time Categorized:	05/10/2007 14:25 (CTZ)		
Report Type:	Notification		
Report Dates:	Notification	05/14/2007	17:51 (ETZ)
	Initial Update		
	Latest Update		
	Final		
Significance Category:	3		
Reporting Criteria:	2C(2) - Failure to follow a prescribed hazardous energy control process (e.g., lockout/tagout) or a site condition that results in the unexpected discovery of an uncontrolled hazardous energy source (e.g., live electrical power circuit, steam line, pressurized gas). This criterion does not include discoveries made by zero-energy checks and other precautionary investigations made before work is		

	<p>authorized to begin.</p> <p>10(2) - An event, condition, or series of events that does not meet any of the other reporting criteria, but is determined by the Facility Manager or line management to be of safety significance or of concern to other facilities or activities in the DOE complex. One of the four significance categories should be assigned to the occurrence, based on an evaluation of the potential risks and the corrective actions taken. (1 of 4 criteria - This is a SC 3 occurrence)</p>
Cause Codes:	
ISM:	<ol style="list-style-type: none"> 1) Define the Scope of Work 2) Analyze the Hazards 3) Develop and Implement Hazard Controls 4) Perform Work Within Controls
Subcontractor Involved:	<p>Yes</p> <p>BBM Engineering</p>
Occurrence Description:	<p>At approximately noon on May 9, 2007, a subcontractor was observed by a Facilities Management & Services (FMS) construction field representative (CFR) standing in front of a control panel for a large air handling unit (AHU) that was undergoing commissioning to supply conditioned air for a large high bay building, Building 366. An FMS engineer had arranged access to the site for the individual for the purpose of attending a coordination meeting to address the operating issues that arose with the AHU during the commissioning phase. When the engineer inquired about the status of the subcontractor, he was informed the individual had been granted access about 40 minutes earlier. The engineer met up with the individual at Building 366 where the issues were discussed. At this time, it was determined that the individual had reprogrammed the AHU at the control panel to operate on the economizer cycle only (cooling with outside air). The individual stated that he would bring in a factory-authorized representative early next week to complete the commissioning effort. The engineer left, assuming the individual would also.</p> <p>Shortly thereafter, the CFR observed the individual at the control panel mounted on the AHU located at ground level exterior to Building 366. The CFR inquired as to the on-going work as he had no knowledge that the individual would be performing work tasks. It was determined that a 24 volt touch key control pad mounted on the inner door of the enclosure had been replaced after the meeting concluded. The work was performed with a potential exposure to an energized 110 volt terminal strip about 24 to 30 inches away mounted in the rear of the enclosure behind numerous ribbon wire connectors. Further inquiry determined that the individual was working without having a current certification for attendance at the Contractor Safety Orientation training, without having a Work Entry Clearance form processed, without having properly controlled and designated the work area, without having proper Personal Protective Equipment, without having certification of qualification for NFPA 70E training, and without having pursued a Lockout/Tagout (LO/TO) in coordination with FMS Maintenance for the replacement of the touch key pad.</p>
Cause Description:	
Operating Conditions:	Outdoors, dry, gravel covered ground, air handling unit functioning improperly
Activity Category:	Startup

Immediate Action(s):	<p>The CFR had the individual halt his work. The control panel door was closed. The CFR contacted his line management and the individual was placed under the contract discipline procedure resulting in a suspension from performing work tasks at the site for a period of 6 months.</p> <p>Notifications were made to the FMS division office and to Procurement with regards to the contract. The individual suspended is self-employed as BBM Engineering.</p> <p>The ORPS designee was notified verbally late in the afternoon of May 9 and made arrangements to view the AHU and control panel during the late morning of May 10. Pictures and a description of the incident were provided to EQO following notification to FMS division management of the potential Occurrence Report.</p>
FM Evaluation:	The subcontractor proceeded to conduct work tasks beyond his authorization. A questioning attitude by an observant FMS CFR disclosed the event. Even though the impact of not getting the unit functional for the FMS customers in Building 366 looms in the future as the weather continues to warm up, the correct action was taken in this instance.
DOE Facility Representative Input:	
DOE Program Manager Input:	
Further Evaluation is Required:	<p>Yes.</p> <p>Before Further Operation? No</p> <p>By Whom: FMS-Engineering</p> <p>By When:</p>
Division or Project:	Facilities Management & Services Division
Plant Area:	360 Area
System/Building/Equipment:	Air Conditioning/366/Air Handling Unit
Facility Function:	Balance of Plant - Infrastructure (Other Functions not specifically listed in this Category)
Corrective Action:	
Lessons(s) Learned:	
HQ Keywords:	<p>01A--Conduct of Operations - Conduct of Operations (miscellaneous)</p> <p>01E--Conduct of Operations - Operations Procedures</p> <p>01M--Conduct of Operations - Inadequate Job Planning (Electrical)</p> <p>01Q--Conduct of Operations - Personnel error</p> <p>01R--Conduct of Operations - Management issues</p> <p>08H--OSHA Reportable/Industrial Hygiene - Safety Compliance</p> <p>11G--Other - Subcontractor</p> <p>12C--EH Categories - Electrical Safety</p> <p>13A--Management Concerns - HQ Significant (High-lighted for Management attention)</p> <p>14E--Quality Assurance - Work Process</p>
HQ Summary:	A subcontractor had been granted site access to attend a meeting to address the operating issues that arose with the air handling units (AHU) during the commissioning phase. While on site, the subcontractor performed unauthorized work on two AHUs, and did not follow the required work controls. Upon

	discovery, the construction field representative halted the work and his line management took disciplinary action.			
Similar OR Report Number:				
Facility Manager:	Name	Stine, Gail Y.		
	Phone	(630) 252-8930		
	Title	Director, Facilities Management & Services Div.		
Originator:	Name	Ridenour, Mary J		
	Phone	(630) 252-6786		
	Title	ORPS COORDINATOR		
HQ OC Notification:	Date	Time	Person Notified	Organization
	NA	NA	NA	NA
Other Notifications:	Date	Time	Person Notified	Organization
	05/10/2007	12:44 (CTZ)	G. Y. Stine	ANL-FMS
	05/10/2007	14:20 (CTZ)	M. J. Ridenour	ANL-EQO
	05/10/2007	14:45 (CTZ)	Eric Turnquest	ASO-DOE
Authorized Classifier(AC):				

10)Report Number:	SC--ASO-GOCH-DOEARGONNE-2007-0001 After 2003 Redesign		
Secretarial Office:	Science		
Lab/Site/Org:	Argonne National Laboratory East		
Facility Name:	DOE Argonne		
Subject/Title:	DOE-CH Electrical Near Miss		
Date/Time Discovered:	05/17/2007 10:00 (CTZ)		
Date/Time Categorized:	05/17/2007 11:45 (CTZ)		
Report Type:	Notification		
Report Dates:	Notification	05/21/2007	23:24 (ETZ)
	Initial Update		
	Latest Update		
	Final		
Significance Category:	3		
Reporting Criteria:	10(3) - A near miss, where no barrier or only one barrier prevented an event from having a reportable consequence. One of the four significance categories should be assigned to the near miss, based on an evaluation of the potential risks and the corrective actions taken. (1 of 4 criteria - This is a SC 3 occurrence)		
Cause Codes:			
ISM:			
Subcontractor Involved:	No		
Occurrence Description:	On May 16, 2007, at approximately 4:30 pm, a CH employee was taking measurements, in Cubicle 370 in ANL Building 201, using a metal cased 1 inch wide 25 foot long tape measure. The CH employee reported releasing the slide		

	<p>lock which caused the measuring tape to recoil, at which time the lip on the end of the measuring tape snagged on the edge of the surface mounted receptacle box closest to the southeast corner of the cubicle. Soon thereafter sparking was noticed at the receptacle. This 110 volt 20 amp duplex outlet was being used to power a laser printer and a facsimile machine.</p> <p>The CH employee notified CH Safety and Technical Services the next day and was sent to ANL Medical Department for a precautionary examination and released.</p>
Cause Description:	
Operating Conditions:	normal
Activity Category:	Normal Operations (other than Activities specifically listed in this Category)
Immediate Action(s):	The employee was sent to the ANL Medical Department for examination ANL Maintenance was called to reset the breaker and arrange for replacement of the damaged duplex receptacle; ANL Maintenance posted an out-of-service tag over the duplex receptacle; and the CH Cyber Helpdesk replaced the damaged power cord for the laser printer.
FM Evaluation:	
DOE Facility Representative Input:	
DOE Program Manager Input:	
Further Evaluation is Required:	<p>Yes.</p> <p>Before Further Operation? No</p> <p>By Whom: Karl Moro</p> <p>By When:</p>
Division or Project:	SC-CH Office of Management Analytical and Administ
Plant Area:	200
System/Building/Equipment:	Bldg. 201/Cubicle 370
Facility Function:	Balance of Plant - Infrastructure (Other Functions not specifically listed in this Category)
Corrective Action:	
Lessons(s) Learned:	
HQ Keywords:	<p>01A--Conduct of Operations - Conduct of Operations (miscellaneous)</p> <p>01Q--Conduct of Operations - Personnel error</p> <p>07D--Electrical Systems - Electrical Wiring</p> <p>08J--OSHA Reportable/Industrial Hygiene - Near Miss (Electrical)</p> <p>12K--EH Categories - Near Miss (Could have been a serious injury or fatality)</p> <p>13A--Management Concerns - HQ Significant (High-lighted for Management attention)</p> <p>14E--Quality Assurance - Work Process</p>
HQ Summary:	While an employee was taking measurements in ANL Building 201, the tip of a metal-cased tape measure snagged a surface-mounted 110 volt receptacle box and this caused sparking. The employee notified Safety and Technical Services the next day and was sent to ANL Medical Department for a precautionary examination and released. ANL maintenance personnel posted an out-of-service tag over the damaged receptacle, arranged for its replacement, and reset the

	breaker.			
Similar OR Report Number:	1. SC--ASO-ANLE-ANLE-2007-0007			
Facility Manager:	Name	MORO, KARL G		
	Phone	(630) 252-2065		
	Title	PERSONNEL PROTECTION TEAM LDR		
Originator:	Name	MEREDITH, STUART G		
	Phone	(630) 252-6312		
	Title	PAAA COORDINATOR		
HQ OC Notification:	Date	Time	Person Notified	Organization
	NA	NA	NA	NA
Other Notifications:	Date	Time	Person Notified	Organization
	05/17/2007	12:40 (CTZ)	Creig Zook	ASO-DOE
Authorized Classifier(AC):				

11)Report Number:	SC--BHSO-BNL-BNL-2007-0008 After 2003 Redesign		
Secretarial Office:	Science		
Lab/Site/Org:	Brookhaven National Laboratory		
Facility Name:	Brookhaven National Laboratory (BOP)		
Subject/Title:	Ungrounded Neutral Discovered in wye connected output of 13.8kV/208V Dry Type Transformer		
Date/Time Discovered:	05/15/2007 13:00 (ETZ)		
Date/Time Categorized:	05/15/2007 13:30 (ETZ)		
Report Type:	Notification/Final		
Report Dates:	Notification	05/17/2007	17:13 (ETZ)
	Initial Update	05/17/2007	17:13 (ETZ)
	Latest Update	05/17/2007	17:13 (ETZ)
	Final	05/17/2007	17:13 (ETZ)
Significance Category:	4		
Reporting Criteria:	10(2) - An event, condition, or series of events that does not meet any of the other reporting criteria, but is determined by the Facility Manager or line management to be of safety significance or of concern to other facilities or activities in the DOE complex. One of the four significance categories should be assigned to the occurrence, based on an evaluation of the potential risks and the corrective actions taken. (1 of 4 criteria - This is a SC 4 occurrence)		
Cause Codes:	A1B4C02 - Design/Engineering Problem; Design Verification / Installation Verification LTA; Testing of design/installation LTA		
ISM:	3) Develop and Implement Hazard Controls 5) Provide Feedback and Continuous Improvement		
Subcontractor Involved:	Yes Roppelt Electric		

Occurrence Description:	<p>On April 17, 2007, at Brookhaven National Laboratory (BNL), electricians discovered an abnormal electrical condition while installing receptacles and associated wiring in Building 703 West Wing, Lab W6. Further investigation by an electrical engineer concluded that a laboratory furnace ac power supply circuit was grounded on "A" phase. In addition, the supply circuit had an ungrounded neutral. There was no electrical shock or injury to personnel. Plant Engineering safety personnel were notified, and the BNL Electrical Safety Officer performed an Electrical Severity review of the site condition. The review conclusion was calculated utilizing the Energy Facilities Contractors Group (EFCOG) Electrical Severity Measurement tool that determined the potential severity of the issue. The result was presented to Plant Engineering on May 15, 2007. The conditions have been corrected.</p> <p>The Electrical Severity Measurement tool indicated that this condition should be reported to the Occurrence Reporting and Processing system under the above reporting criteria.</p>		
Cause Description:	<p>A field verification of the bonding of the transformer did not occur after installation.</p> <p>The furnace ac power wiring was probably damaged during the transportation process from the researchers' Michigan Laboratory to Brookhaven National Laboratory.</p>		
Operating Conditions:	Normal		
Activity Category:	Maintenance		
Immediate Action(s):	The fault conditions were corrected immediately. The phase to ground fault in the furnace supply was cleared and the wye connected transformer output neutral was bonded at the secondary side of the transformer.		
FM Evaluation:			
DOE Facility Representative Input:			
DOE Program Manager Input:			
Further Evaluation is Required:	No		
Division or Project:	Plant Engineering and Engineering and Construction		
Plant Area:	B-703 West Wing Labs		
System/Building/Equipment:	13.8kV/208V Dry type transformer for Building 703 West Wing		
Facility Function:	Balance-of-Plant - Site/outside utilities		
Corrective Action 01:	<table border="1"> <tr> <td>Target Completion Date:08/03/2007</td> <td>Actual Completion Date:</td> </tr> </table> <p>Revise E&CS-303 "Construction Inspector" procedure to require inspection and testing of transformers and to record the test results in the construction job file.</p>	Target Completion Date: 08/03/2007	Actual Completion Date:
Target Completion Date: 08/03/2007	Actual Completion Date:		
Lessons(s) Learned:	In WYE secondary electrical distribution schemes a grounded neutral is required to provide an appropriate ground path for personnel and over-current protection. Workers involved in transformer and distribution panel installations must ensure that the system is configured as designed.		
HQ Keywords:	07D--Electrical Systems - Electrical Wiring 08H--OSHA Reportable/Industrial Hygiene - Safety Compliance		

	11G--Other - Subcontractor 12C--EH Categories - Electrical Safety 14E--Quality Assurance - Work Process 14H--Quality Assurance - Inspection and Acceptance Testing															
HQ Summary:	Electricians discovered an abnormal electrical condition while installing receptacles and associated wiring in Building 703 West Wing, Lab W6. Further investigation by an electrical engineer concluded that a laboratory furnace ac power supply circuit was grounded on "A" phase. In addition, the supply circuit had an ungrounded neutral. There was no electrical shock or injury to personnel. The conditions have been corrected.															
Similar OR Report Number:																
Facility Manager:	<table border="1"> <tr> <td>Name</td> <td colspan="3">MURPHY, EDWARD T</td> </tr> <tr> <td>Phone</td> <td colspan="3">(631) 344-3466</td> </tr> <tr> <td>Title</td> <td colspan="3">DIVISION MANAGER</td> </tr> </table>				Name	MURPHY, EDWARD T			Phone	(631) 344-3466			Title	DIVISION MANAGER		
Name	MURPHY, EDWARD T															
Phone	(631) 344-3466															
Title	DIVISION MANAGER															
Originator:	<table border="1"> <tr> <td>Name</td> <td colspan="3">SIERRA, EDWARD A</td> </tr> <tr> <td>Phone</td> <td colspan="3">(631) 344-4080</td> </tr> <tr> <td>Title</td> <td colspan="3">LLL/ORPS COORDINATOR</td> </tr> </table>				Name	SIERRA, EDWARD A			Phone	(631) 344-4080			Title	LLL/ORPS COORDINATOR		
Name	SIERRA, EDWARD A															
Phone	(631) 344-4080															
Title	LLL/ORPS COORDINATOR															
HQ OC Notification:	<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Person Notified</th> <th>Organization</th> </tr> </thead> <tbody> <tr> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table>				Date	Time	Person Notified	Organization	NA	NA	NA	NA				
Date	Time	Person Notified	Organization													
NA	NA	NA	NA													
Other Notifications:	<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Person Notified</th> <th>Organization</th> </tr> </thead> <tbody> <tr> <td>05/15/2007</td> <td>13:30 (ETZ)</td> <td>J. Durnan</td> <td>BNL LESC</td> </tr> </tbody> </table>				Date	Time	Person Notified	Organization	05/15/2007	13:30 (ETZ)	J. Durnan	BNL LESC				
Date	Time	Person Notified	Organization													
05/15/2007	13:30 (ETZ)	J. Durnan	BNL LESC													
Authorized Classifier(AC):																

[| ORPS HOME](#) | [Search & Reports](#) | [Authorities](#) | [Help](#) | [Security/Privacy Notice](#) |
 Please send comments or questions to orpssupport@hq.doe.gov or call the Helpline
 at (800) 473-4375. Hours: 7:30 a.m. - 5:00 p.m., Mon - Fri (ETZ).
 Please include [detailed information](#) when reporting problems.