

Fuel Cycle Facility

Event # 41090

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| Facility: BATTELLE MEMORIAL INSTITUTE | Notification Date / Time: 10/04/2004 17:50 (EDT) |
| Licensee: BATTELLE MEMORIAL INSTITUTE | Event Date / Time: 10/01/2004 11:00 (EDT) |
| Fac Type: ADVANCED FUEL R&D AND PILOT PLANTS | Last Modification: 10/04/2004 |
| Region: 3 | Docket #: 07000008 |
| City: WEST JEFFERSON | Agreement State: Yes |
| County: MADISON | License #: SNM-7 |
| State: OH | |
| NRC Notified by: JOE JACOBSEN | Notifications: PATRICK LOUDEN R3 |
| HQ Ops Officer: JOHN MacKINNON | M. WAYNE HODGES NMSS |
| Emergency Class: NON EMERGENCY | ROBERTO TORRES NMSS |
| 10 CFR Section: 21.21 UNSPECIFIED PARAGRAPH | |

CRACKS/FISSURES IN POWER AIR PURIFYING RESPIRATORS (PAPR) MOTOR/BLOWER ASSEMBLY CASINGS

"Exact content of notification: Battelle is notifying NRC of a potential defect as from the manufacturer concerning the MSA equipment provided Model MM2K PAPR motor/blower assembly (Part 10022695). After limited field use at its West Jefferson, Ohio site noticeable cracks/fissures developed on some of the motor/blower casings. The manufacturer of the equipment, MSA, has been notified of the problem and several of the cracked/fissure units have been returned to MSA for testing in early September. Battelle discontinued use of the MSA Model MM2K PAP'R in mid September as a result of the observed equipment cracks/fissures at its West Jefferson, Ohio site.

"Describe the event: We have been experiencing noticeable cracks/fissures of some of our MSA brand MM2K Powered Air Purifying Respirators (PAPR) motor/blower assembly casings (Part #10022695). We have not experienced any break through of the casings tied to employee exposure as evidenced by our In place personnel monitoring programs. Our original note of the circumstance was on August 25, 2004 during the re-apse inspection process of the MSA MM2K PAPR by the Respiratory Protection Supervisor on site. We have field verified that our respirator cleaning and use processes are adequate and In line with the manufacturer recommendations. We again experienced a similar crack/fissures Issue with a different order of MSA MM2K PAPR motor/blower assemblies by a different vendor ordering from a different lot number in early September 2004. We have discontinued use of the MSA MM2.K PAPR on site in mill September as a result of the issues we have had and have supplied MSA with several of the cracked/fissured MM2K PAPR motor/blower assembly casings for testing at their facility In Pennsylvania. MSA Is working on a solution for the identified issue.

IE20



BATTELLE COLUMBUS LABORATORIES
USNRC
EVENT REPORT

Part 21

PART I
Initial Discovery/Notification

1. Date/time the event was discovered: 10/1/04 11:00 AM

2. Date/time the event occurred, if different than the date of discovery: N/A

3. Describe the event: We have been experiencing noticeable cracks/fissures of some of our MSA brand MM2K Powered Air Purifying Respirators (PAPR) motor/blower assembly casings (Part #10022695). We have not experienced any break through of the casings tied to employee exposure as evidenced by our in place personnel monitoring programs. Our original note of the circumstance was on August 25, 2004 during the re-use inspection process of the MSA MM2K PAPR by the Respiratory Protection Supervisor on site. We have field verified that our respirator cleaning and use processes are adequate and in line with the manufacturer recommendations. We again experienced a similar crack/fissures issue with a different order of MSA MM2K PAPR motor/blower assemblies by a different vendor ordering from a different lot number in early September 2004. We have discontinued use of the MSA MM2K PAPR on site in mid September as a result of the issues we have had and have supplied MSA with several of the cracked/fissured MM2K PAPR motor/blower assembly casings for testing at their facility in Pennsylvania. MSA is working on a solution for the identified issue.

4. Under what regulation is this notification being made: 10CFR21

5. What is the period of time allowed for initial notification?
- | | |
|---|---|
| <input type="checkbox"/> Immediate | <input type="checkbox"/> Within 15 days |
| <input type="checkbox"/> Within 2 hours | <input type="checkbox"/> Within 30 days |
| <input type="checkbox"/> Within 4 hours | <input type="checkbox"/> Within 45 days |
| <input type="checkbox"/> Within 24 hours | <input type="checkbox"/> Within 60 days |
| <input checked="" type="checkbox"/> Within 2 days | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Within 5 days | |

6. Describe the emergency classification of this event.

- General
- Site/Area
- Alert
- Unusual Event
- None

7. Type of initial notification made.

- Telephone
- Mailgram
- Facsimile
- Letter

For other than immediate, 2 hour, 4 hour, and 24 hour notifications:

PART I
Initial Discovery/Notification

8. NRC Section notified: USNRC Operations Center

9. Individual's name to which the notification was made: John MacKinnon

10. Time/date notification was made: 10/4/04 1750 hrs.

11. Exact content of notification: Battelle is notifying NRC of a potential equipment defect as provided from the manufacturer concerning the MSA Model MM2K PAPR motor/blower assembly (Part # 10022695). After limited field use at its West Jefferson, Ohio site noticeable cracks/fissures developed on some of the motor/blower casings. The manufacturer of the equipment, MSA, has been notified of the problem and several of the cracked/fissure units have been returned to MSA for testing in early September. Battelle discontinued use of the MSA Model MM2K PAPR in mid September as a result of the observed equipment cracks/fissures at its West Jefferson, Ohio site.

12. Was any other agency or individual contacted as a result of this event? Yes No; If yes, who was contacted?
Pete Greenwalt- DOE Columbus Closure Project Manager

13. Initial notification made by: Joe Jacobsen- Battelle

Joe Jacobsen
Signature of Individual Making Notification

Joe Jacobsen- Battelle RSO *Sams*
Acknowledged (RSO)