



**Department of Energy**  
**Ohio Field Office**  
**Fernald Environmental Management Project**  
**P. O. Box 538705**  
**Cincinnati, Ohio 45253-8705**  
**(513) 648-3155**



JAN 26 2004

Mr. James A. Saric, Remedial Project Manager  
 United States Environmental Protection Agency  
 Region V, SR-6J  
 77 West Jackson Boulevard  
 Chicago, Illinois 60604-3590

DOE-0108-04

Mr. Tom Schneider, Project Manager  
 Ohio Environmental Protection Agency  
 401 East 5th Street  
 Dayton, Ohio 45402-2911

Mr. Pete Sturdevant  
 Compliance Specialist  
 Air Quality Management Division  
 Hamilton County Department of Environmental Services  
 250 William Howard Taft Road  
 Cincinnati, Ohio 456218-2660

Dear Mr. Saric, Mr. Schneider, and Mr. Sturdevant:

**QUARTERLY REPORT ON DRYER STACK, JANUARY 2004**

The purpose of this letter is to transmit the Quarterly Report on Dryer Stack for the Waste Pit Project (WPP) at the Fernald Closure Project (FCP) to the United States Environmental Protection Agency (USEPA), the Ohio Environmental Protection Agency (OEPA), and the Hamilton County Department of Environmental Services (DOES).

In response to the OEPA comments on the Draft Remedial Action Package, the DOE-FCP, Fluor Fernald, Inc., and Shaw Environmental, Inc. agreed to provide quarterly reports of any deviations or excursions from emissions limitations, operational restrictions, and control device operating parameter for the dryer stack. If no deviations or excursions occurred during the affected calendar quarter, a report stating so is required.

The information contained in this letter and the enclosure satisfies the commitment for Calendar Quarter October 1 through December 31, 2003. Specifically, there is one incident to report for the time period. The information was reported to the DOES, via electronic mail. A copy of the electronic mail report is enclosed.

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Mr. James A. Saric  
Mr. Tom Schneider  
Mr. Peter Sturdevant

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DOE-0108-04

No additional deviations or excursions occurred during the referenced time period.

If you have any questions or comments, please contact Dave/Lojek at (513) 648-3127.

Sincerely,



 William J. Taylor  
Director

FCP:Lojek

Enclosure: As Stated

cc w/enclosure:

D. Lojek, OH/FCP  
T. Schneider, OEPA-Dayton (three copies of enclosure)  
G. Jablonowski, USEPA-V, SR-6J  
F. Bell, ATSDR  
M. Cullerton, Tetra-Tech  
M. Shupe, HSI GeoTrans  
R. Vandegrift, ODH  
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:

K. Johnson, OH/FCP  
M. Cherry, Fluor Fernald, Inc./MS52-1  
T. Hagen, Fluor Fernald, Inc./MS1  
P. Shanks, Fluor Fernald, Inc./MS65-2  
T. Walsh, Fluor Fernald, Inc./MS52-3  
D. Zdelar-Bush, Fluor Fernald, Inc./MS52-1  
ECDC, Fluor Fernald, Inc./MS52-7

From: Shanks, Pat Sent: Wed 11/19/2003 4:38 PM  
To: Peter.Sturdevant@does.hamilton-co.org'  
Cc: Saric.James@epa.gov'; 'Tom.Schneider@epa.state.oh.us';  
Bill.Lohner@epa.state.oh.us'; Carr, Dennis; Johnston, Frank; Spotts, Phil;  
Poff, Timothy; Zdelar-Bush, Diane; Couch, Mark; Kopp, Mike; Dalga, Dennis;  
Limerick, Phil; Philpot, Paul; Desormeau, Joe; Reising, Johnny; Everson, Bob;  
Lojek, Dave; Skintik, Ed; Yaeger, Daniel; Peterson, Roy  
Subject: Notification of OEPA- Steam Release from WPRAP Dryer on 10/23/03

Mr. Sturdevant

Pursuant to OAC 3745-15-06, this e-mail message serves as a notification to OEPA of a malfunction that occurred at WPRAP. On 10/23/03 at 1315 hours, a steam release was observed at the discharge end of Dryer B and at the upper end of the B Drag Flight Conveyor. At the time of the steam release, Dryer A and B were being fed material from Waste Pit #5 at a rate of approximately 8 tons per hour. The ultimate cause of the steam release was due to a butterfly valve for the Dryer B Off-Gas Cyclone being inadvertently closed during an activity to establish a control function for this valve. Once this error was detected, the valve was immediately opened. The valve was closed for approximately 5 seconds. The safety interlocks halted feed to Dryer B automatically at the time of the event and the Dryer was placed immediately in a safe and stable configuration. The steam release lasted approximately 15 seconds based on an eye witness of the steam being released.

Maintenance personnel inspected Dryer B discharge housing/equipment to determine where the steam was released. They identified an unsealed inspection door and inspection port for the B Drag Flight Conveyor as two potential sources. Both of these potential sources were properly sealed after the inspection was completed. During the inspection, maintenance personnel noted that there was no evidence of actuation of the rupture panels on the Dryer B discharge hood or the B Drag Flight Conveyor. Following the inspection and completion of corrective activities, normal operation of Dryer B resumed at 1400 hours.

Based on the approved criteria for reporting WPRAP malfunctions (Letter No. C:ESHQ(PI/EC): 2002-0012, "Establishing the Reporting Criteria for Malfunctions That Occur at WPRAP", dated April 24, 2002), this event was not reported immediately to OEPA because none of the principal air pollution control devices malfunctioned and the steam release was short in duration. The decision to report this event would be based on the data from the air monitors located in the vicinity of the Dryers during the time of the release. After analyzing the airborne radioactivity data from these air monitors, the decision was made to report this event to OEPA due to an abnormal spike in the data from one of the radiological air monitors located south of the Dryers. This air monitor normally averages near 1% DAC (Th-230) during operation of the Dryers but spiked to 6.5% DAC on the day of the steam release.

The rest of the air monitors located in the vicinity of the Dryers did not show a significant spike in the data on the day of the release. This is a good indication that the airborne radiological contamination was not abundant and did not travel far. Hence, the steam release from Dryer B is considered minimal based on the data from these air monitors and the duration of the steam release (approximately 15 seconds).

If you have any questions, please contact me at 513-646-4203 or send an e-mail message.

Pat Shanks  
Fernald Closure Project