



Department of Energy
Ohio Field Office
Fernald Environmental Management Project
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JAN 27 2003

Mr. James A. Saric, Remedial Project Manager
 United States Environmental Protection Agency
 Region V-SRF-5J
 77 West Jackson Boulevard
 Chicago, Illinois 60604-3590

DOE-0185-03

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

Mr. Peter Sturdevant
 Compliance Specialist
 Air Quality Management Division
 Hamilton County Department of Environmental Services
 250 William Howard Taft Road
 Cincinnati, OH 45218-2660

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

QUARTERLY REPORT ON DRYER STACK, JANUARY 2003

The purpose of this letter is to transmit the referenced report for your review. This information is being provided in response to the Ohio Environmental Protection Agency (OEPA) comments on the Draft Remedial Action Package in which the Department of Energy, Fernald Closure Project (DOE-FCP) agreed to provide quarterly reports of any deviations or excursions from emissions limitations, operational restrictions, and control device operating parameter limitations for the dryer stack.

The information contained in this letter and the enclosure satisfies the commitment for Calendar Quarter October 1 through December 31, 2002. Specifically, there is one incident to report for the time period. This information was reported to the Department of Environmental Services (DOES), via electronic mail, in accordance with OAC 3745-15-06. A copy of the electronic mail report is enclosed.

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

JAN 27 2003

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

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DOE-0185-03

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

Sincerely,



FCP:Kappa

Johnny W. Reising
Fernald Remedial Action
Project Manager

Enclosure: As Stated

cc w/enclosure:

N. Hallein, EM-31/CLOV
D. Lojek, OH/FCP
T. Schneider, OEPA-Dayton (three copies of enclosure)
G. Jablonowski, USEPA-V, SRF-5J
F. Bell, ATSDR
M. Cullerton, Tetra-Tech
M. Shupe, HSI GeoTrans
R. Vandegrift, ODH
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:

R. Greenberg, EM-31/CLOV
J. Kappa, OH/FCP
D. Carr, Fluor Fernald, Inc./MS2
M. Cherry, Fluor Fernald, Inc./MS52-1
D. G. Dalga, Fluor Fernald, Inc./MS52-1
T. Hagen, Fluor Fernald, Inc./MS9
R. W. Houchins, Fluor Fernald, Inc./MS52-1
F. L. Johnston, Fluor Fernald, Inc./MS52-5
T. Walsh, Fluor Fernald, Inc./MS52-3
D. L. Zdelar-Bush, Fluor Fernald, Inc./MS52-1
ECDC, Fluor Fernald, Inc./MS52-7

From: Shanks, Pat
Sent: Tue 10/15/2002 5:08 PM
To: Peter.Sturdevant@does.hamilton-co.org
Cc: Tom.Schneider@epa.state.oh.us; Saric.James@epa.gov;
Bill.Lohner@epa.state.oh.us; Hagen, Terry; Jewett, Marc; Spradlin, Ted; Spotts,
Phil; Poff, Timothy; Poff, Timothy; Cherry, Mark; Dalga, Dennis; Desormeau,
Joe; Houchins, Ronald; Kappa, John; Lojek, Dave; Limerick, Phil; Couch, Mark;
Skintik, Ed; Zdelar-Bush, Diane; Yaeger, Daniel
Subject: Notification of OEPA- Malfunction of Thermal Oxidizer at WPRAP- 10/13/02

Mr. Sturdevant

Pursuant to OAC 3745-15-06, this e-mail message serves as a notification of OEPA of a malfunction that occurred at WPRAP. On 10/13/02 at 13:56, the FEMP experienced a power outage. Consequently, the power outage interrupted power to WPRAP. Prior to the power interruption, only Dryer A was operating (Dryer B was shutdown for maintenance) which was being fed at a rate of approximately 10 tons per hour of Pit 5 material. The power outage at WPRAP caused an interruption of power to the Dryer and the off-gas system. The WPRAP emergency safety systems performed as designed during the power outage which included the immediate start-up of the emergency generator, the shutdown of feed to the Dryer, and the shutdown of the burners to both the Thermal Oxidizer (TO) and the Dryers.

Due to the start-up of the emergency generator, power was restored to the off-gas system. The off-gas equipment immediately started operating again except for the TO and the ID Fan. The burners to the TO had to cool down before they could be re-lit. The burners were finally re-lit and the TO was brought back up to operating temperature at 14:17. The ID Fan could not be re-started until a PLC Rack Failure alarm was reset at the Control Center. This delay in starting up the ID Fan lasted only two minutes.

During the two-minute delay before the ID Fan started operating again, steam was observed emanating from the seals for Dryer A. The steam release halted as soon as the ID Fan began operating. After the ID Fan began operating, a pale yellow plume was observed being emitted from the exhaust stack. The yellow plume was observed emanating out of the stack from the time the ID Fan started operating until the TO was brought back up to proper operating temperature, for a total of 19 minutes.

The steam release from the Dryer seals is considered insignificant since the release lasted only two minutes and the volume of the release was not great. Releases (yellow plume) from the exhaust stack during the time the TO was shutdown are considered minimal because: 1) feed to the Dryer was suspended immediately after the power outage began so pit material inside the Dryer became less as time elapsed; 2) the only potential emissions from the exhaust stack were organics and carbon monoxide while the TO was shutdown; 3) the scrubber would have removed some of the organics from the off-gas stream; 4) the TO was not at the proper operating temperature for only 19 minutes.

This incident is being reported to OEPA due to the fact that the TO was not operating while the ID Fan was operating and waste pit materials were being processed inside the Dryer. The TO is considered Best Available Technology (BAT) for organic and carbon monoxide emissions from the Dryers and must be operating whenever the ID Fan is ventilating the Dryers during the processing of waste pit materials.

If you have any questions, please contact me at 648-4203 or send an e-mail message.

Pat Shanks
Fluor Fernald