



U.S. Department of Energy  
**Office of River Protection**

P.O. Box 450, MSIN H6-60  
Richland, Washington 99352

0098430

AUG 24 2011

11-ESQ-209

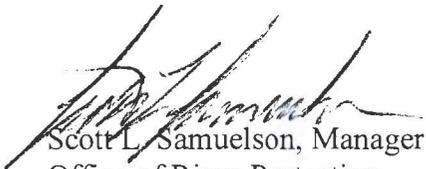
Ms. Jane A. Hedges, Program Manager  
Nuclear Waste Program  
Washington State  
Department of Ecology  
3100 Port of Benton Blvd.  
Richland, Washington 99354

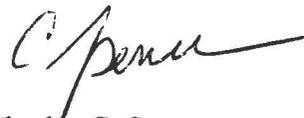
Dear Ms. Hedges:

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) IMPLEMENTATION OF  
THE CONTINGENCY PLAN 15-DAY REPORT FOR THE AUGUST 9, 2011, EVENT

On August 9, 2011, the U.S. Department of Energy, Office of River Protection (ORP) provided notification to the Washington State Department of Ecology (Ecology) of an event that implemented the RCRA contingency plan at the Hanford Facility. The attached document transmits the follow-up 15-day report required by Washington Administrative Code 173-303-360(2)(k). If you have any questions, please contact either of us, or your staff may contact Lori A. Huffman, Director, Environmental Compliance Division, (509) 376-0104, or Jack W. Donnelly, WRPS, (509) 373-2119.

Sincerely,

  
Scott L. Samuelson, Manager  
Office of River Protection

  
Charles G. Spencer  
President and Project Manager  
Washington River Protection Solutions LLC

ESQ:GMN

Attachment

cc: See page 2

Attachment  
11-ESQ-209  
(2 Pages)

15-Day Report for the Implementation  
of the Contingency Plan at the Hanford Facility

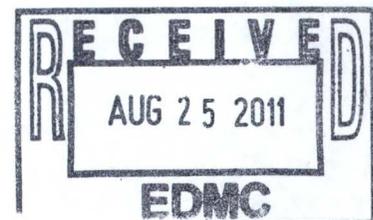
Ms. Jane A. Hedges  
11-ESQ-209

-3-

AUG 24 2011

cc w/attach:

J. J. Lyon, Ecology  
H. Qiu, Ecology  
N. H. Uziemblo, Ecology  
C. L. Whalen, Ecology  
K. J. Wold, Ecology  
K. A. Peterson, MSA  
R. M. Carosino, RL  
D. E. Jackson, RL  
P. J. Martell, WDOH  
J. C. Allen-Ford, WRPS  
W. T. Dixon, WRPS  
J. W. Donnelly, WRPS  
A. B. Dunning, WRPS  
L. D. Garcia, WRPS  
J. T. Hamilton, WRPS  
G. J. Johnson, WRPS  
M. D. Johnson, WRPS  
S. H. Kent, WRPS  
B. D. Peck, WRPS  
M. G. Peloquin, WRPS  
W. E. Ross, WRPS  
D. J. Saueressig, WRPS  
S. M. Sax, WRPS  
R. J. Skwarek, WRPS  
D. K. Smith, WRPS  
B. R. Thomas, WRPS  
J. A. Voogd, WRPS  
**Administrative Record**  
Environmental Portal, LMSI  
WRPS Correspondence



15-DAY REPORT FOR THE IMPLEMENTATION OF THE CONTINGENCY PLAN AT THE  
HANFORD FACILITY (200 EAST AREA C TANK FARM)

The following 15-day report meets the reporting requirements of Washington State Department of Ecology Dangerous Waste Regulations Washington Administrative Code 173-303-360(2)(k).

**(i) Name, address, and telephone number of the owner or operator;**

Owner

U.S. Department of Energy  
Office of River Protection  
P.O. Box 450  
Richland, Washington 99352  
(509) 372-2315

**(ii) Name, address, and telephone number of the facility;**

Washington River Protection Solutions LLC (Co-Operator)  
P.O. Box 850  
Richland, Washington 99352  
(509) 372-9138

200 East Area C Tank Farm  
Hanford Facility  
EPA/State ID # WA7890008967

**(iii) Date, time, and type of incident (e.g., fire, explosion);**

On August 9, 2011, at approximately 1151 hours, the Central Shift Manager was notified of smoke emanating from a portable exhauster unit, POR-107. POR-107 is located inside of the 200 East Area C Tank Farm, and is part of the Hanford Single-Shell Tank Treatment, Storage, and Disposal unit.

The exhauster unit was being tested/operated to confirm proper operation and control prior to waste retrieval operations in the Hanford C Tank Farm, specifically Tank C-107. The exhauster intake was ambient air in the C Farm area during the test. The exhauster was not connected to any hazardous waste tank during this event. The exhauster unit includes an exhauster fan and an insulated glycol heater on the suction side of the fan.

C Tank Farm Facility personnel observed smoke from the vicinity of the glycol heater and reported the event to the Central Shift Office, who then notified the Hanford Fire Department. The fire department arrived at approximately 1213 hours, and applied water and used fire extinguishers on the insulation of the glycol heater. No flames were observed at any time during the event.

**(iv) Name and quantity of material(s) involved;**

Material involved was Armaflex foam insulation, applied on the outside of the exhauster unit's glycol heater with an adhesive. There is estimated to be approximately 2 cubic feet of insulation involved with this event.

**(v) The extent of injuries, if any;**

No injuries to facility personnel occurred as a result of this incident.

**(vi) An assessment of actual or potential hazards to human health or the environment, where this is applicable;**

As a result of identifying the smoke early and the immediate response taken there are no known or potential hazards to human health or the environment as a result of this event. In addition, the amount of water used was minimal, and due to summer temperatures and the small amount of water utilized, the majority of water evaporated and was limited to a small area.

**(vii) Estimated quantity and disposition of recovered material that resulted from the incident;**

The estimated quantity of insulation material removed from outside the glycol heater is 2 cubic feet. All material recovered from the incident will be properly dispositioned in accordance with regulatory requirements.

**(viii) Cause of incident; and**

The apparent cause of the incident was overheating of insulation material on the outside of the exhauster/ventilation system glycol heater of POR-107. The glycol heater was operating at a temperature greater than the temperature rating for the Armaflex. The Armaflex and adhesive materials were rated for approximately 180 degrees Fahrenheit. Preliminary information indicates temperatures around the glycol heater exceeded that temperature.

**(ix) Description of corrective action taken to prevent reoccurrence of the incident.**

1. Completed an inspection of similar heater systems on the exhausters in the AN and AW Tank Farms, and conducted an evaluation for any degradation of the insulation. This action was completed on August 9, 2011; no deficiencies were noted.
2. The insulation heat ratings on POR-107 are being evaluated to ensure compatibility with the glycol heater temperatures.