

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Duke Energy Cincinnati Diesel Spill - Removal Polrep
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: **POLREP #2**
Final
Duke Energy Cincinnati Diesel Spill
NRC#1092727
New Richmond, OH
Latitude: 38.9913040 Longitude: -84.2976630

To: Sam Borries, U.S. EPA
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Craig Wright, Pierce Township Fire Dept
Richard Timme, USCG
Jeff Bachman, Pierce Township Police Dept
Dave Combs, Ohio EPA
Ronald Schneider, Campbell County OEM
James Sparks, Kentucky EMA
Odayues Leonard, Cincinnati Police Dept
Tom Patt, Duke Energy

From: Steven Renninger, On-Scene Coordinator
Date: 8/20/2014
Reporting Period: 8/19/2014 at 18:00 to 8/21/14 at 12:00

1. Introduction

1.1 Background

Site Number:	NRC#1092727	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	OPA	Response Type:	Emergency
Response Lead:	EPA	Incident Category:	

NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	8/19/2014	Start Date:	8/19/2014
Demob Date:	8/21/2014	Completion Date:	8/21/2014
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	Ohio EPA and KY DEP
FPN#:	E14538	Reimbursable Account #:	

1.1.1 Incident Category

Emergency Response

On August 18, 2014 at 2355 hours, Duke Energy reported a diesel spill at the Duke Energy Beckjord Generating facility located at 757 U.S. 52, New Richmond, Clermont County, Ohio. NRC Report number is 1092727. The initial report was 1,000 gallons of Fuel Oil No. 2 released to the Ohio River. Spill source was two above ground storage tanks that were overfilled.

On August 19, 2014, Unified Command was established on-scene with EPA, Ohio EPA, US Coast Guard, Kentucky DEP, Pierce Township, and Duke Energy. The spill estimate was revised to 3,400 gallons on August 19, 2014.

Unified Command briefings were initiated on August 19, 2014.

1.1.2 Site Description

3,400 gallon diesel oil spill at the Duke Energy Beckjord Generating facility at 757 U.S. 52, New Richmond, OH. Spill impacted the Ohio River.

1.1.2.1 Location

Duke Energy Beckjord Generating Station, 757 U.S. 52, New Richmond, Ohio. Sheen and diesel observed on the Ohio River for approximately 16 miles down stream of spill location. At 1600 hrs on August 19, 2014, the leading edge of the sheen was observed at Ohio River mile marker 469 on the east side of Cincinnati, Ohio.

1.1.2.2 Description of Threat

Duke Energy initially reported a 1,000 gallon spill of diesel oil No. 2 to the NRC on August 18, 2014 at 23:55. On August 19, 2014, the spill amount was revised to 3,400 gallons of diesel oil No. 2 released to the Ohio River. Northern KY and Greater Cincinnati water intakes were closed on August 19, 2014.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

EPA and Ohio EPA overflights on August 19, 2014 documented approximately 16 miles of the Ohio River were impacted by the diesel spill. Northern KY and Greater Cincinnati water intakes were closed on August 19, 2014. ORSANCO initiated water quality sampling on August 19, 2014.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative for August 19, 2014

On August 19, 2014, Unified Command was established on-scene with EPA, Ohio EPA, Pierce Township, Kentucky DEP, US Coast Guard, and Duke Energy. The spill estimate was revised to 3,400 gallons.

Duke Energy hired Clean Harbors to stabilize spill location and contain/remove diesel oil in the Ohio River and affected tributaries.

EPA issued a Notice of Federal Interest to Duke Energy at 1000 hrs.

US Coast Guard closed Ohio River traffic between Ohio River mile markers 453 to 468. At 1600 hrs, US Coast Guard established a safety zone and reopened commercial maritime traffic.

The following response operations were completed under Unified Command on August 19, 2014:

- Incident Command Post established at Duke Energy
 - Phone number is 513-467-4130
- FPN #E14538 established for \$50,000
- PRFA established with US Coast Guard for \$10,000 for support
- Unified Command briefings were conducted at 1115 hrs, 1415 hrs, and 1800 hrs
- Oil/water separator cleaned out of containment area
- Initial stabilization of spill location on Ohio River bank
- Eight diesel recovery areas established on the Ohio River
- 800 gallons of No. 2 diesel recovered as of 1800 hrs
- Helicopter overflights confirmed leading edge of visible sheen on Ohio River observed at mile marker 467
- Media briefings conducted by EPA at 1200 hrs and 1600 hrs
- ORSANCO initiated water quality sampling on Ohio River
 - Results due on August 20, 2014
- ODNR monitored impact to wildlife

2.1.2 Response Actions from August 20-21, 2014

On August 20, 2014 the following response operations were completed under Unified Command:

- FPN #E14538 increased to \$75,000 for EPA and US Coast Guard costs
- PRFA with US Coast Guard increased to \$15,000 for support
- Unified Command briefings were conducted at 0800 hrs, 1300 hrs, and 1800 hrs

- Divisions A-H established to identify recovery areas on the Ohio River
 - Please see Documents section for Division Map
- Six diesel recovery points established on the Ohio River by Clean Harbors
 - Please see Division Map for recovery point locations
- 1,700 gallons of No. 2 diesel recovered as of 1800 hrs
- Helicopter overflights continued at 1100 hrs, 1530 hrs, and 1900 hrs
 - 1900 hrs overflight confirmed no sheen between Ohio River mile marker 468.5 (Division G) and mile marker 493 (Tanner's Creek, Lawrenceburg, Indiana)
- Limited shoreline recovery operations continued throughout the night
- Full recovery operations resumed at 0800 hrs
- Media briefing conducted by EPA at 1130 hrs
- ORSANCO continued water quality sampling on Ohio River between Cincinnati and Lawrenceburg, Indiana
 - Results due on August 21, 2014
- ODNR continued monitoring impact to wildlife
 - Reported minimal impact
- Cincinnati and Northern KY water intakes were re-opened
- US Fish and Wildlife recommended investigation of potential impact to sensitive species in affected area
 - Duke Energy agreed to fund mussel impact survey. Report will be submitted to Unified Command
- Recovery operations were temporarily suspended from 1645 hrs to 1730 hrs due to inclement weather
- EPA START conducted ambient air monitoring for total VOCs
 - Locations included all recovery points, areas of visible sheen, and public areas including Coney Island amusement park
 - No readings above background levels were detected at any location

The following is a summary of boom deployed at each of six recovery points, as established by Clean Harbors:

1. Beckjord Release Point Mile Marker 453 (Division A) - 800 feet of 18" Containment Boom
2. 9 Mile Collection Point Mile Marker 455.2 (Division B) - 100 feet of 18" Containment Boom
3. Canal Collection Site Mile Marker 460.1 (Division C) - 100 feet of 18" Containment Boom
4. Coney Island Collection Point Mile Marker 461.1 (Division D) - 400 feet of 18" Containment Boom
5. Panama Landing Mile Marker 462.9 (Division E) - 200 feet of 18" Containment Boom
6. Schmidt Boat Launch Mile Marker 466.6 (Division G) - 100 feet of 18" Containment Boom

On August 21, 2014 the following response operations were completed under Unified Command:

- Unified Command briefing conducted at 0900 hrs
- Initiated SCAT inspections in Divisions A-E
- EPA contacted State Historic Preservation Officer and requested identification of any culturally sensitive sites in affected area at 1100 hrs
- Helicopter overflight conducted at 1100 hrs
- Unified Command reviewed/approved Clean Harbors' Decontamination Plan and Waste Disposal Plan at 1200 hrs
- Six diesel recovery points established on the Ohio River by Clean Harbors continued to be monitored and maintained
- US Coast Guard continued to maintain safety zone for maritime traffic
- EPA personnel and equipment demobilized at 1200 hrs
 - Unified Command continued with following entities: Ohio EPA, US Coast Guard, Kentucky DEP, Pierce Township, and Duke Energy

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

On August 19, 2014 at 1000 hrs, EPA issued a Notice of Federal Interest to Duke Energy.

2.1.4 Progress Metrics

Regional Metrics		
This is an Integrated River Assessment. The numbers should overlap.	Miles of river systems cleaned and/or restored	16 (Ohio River)
	Cubic yards of contaminated sediments removed and/or capped	25
	Gallons of oil/water recovered	1,700
	Acres of soil/sediment cleaned up in floodplains and riverbanks	0.25 on riverbank
Stand Alone Assessment	Number of contaminated residential yards cleaned up	0
	Number of workers on site	140
Contaminant(s) of Concern	Diesel Oil No. 2	
Oil response Tracking		
Estimated volume	Initial amount released	est 3,400 gallons
	Final amount collected	1,700 gallons

CANAPS Info	FPN Ceiling Amount	\$75,000
	FPN Number	E14538
	Body of Water affected	Ohio River
Administrative and Logistical Factors (Check X where applicable)		
<input type="checkbox"/> Precedent-Setting HQ Consultations (e.g., fracking, asbestos)	<input type="checkbox"/> Community challenges or high involvement	<input type="checkbox"/> Radiological
<input type="checkbox"/> More than one PRP	<input checked="" type="checkbox"/> Endangered Species Act / Essential Fish Habitat issues	<input type="checkbox"/> Explosives
<input type="checkbox"/> AOC	<input type="checkbox"/> Historic preservation issues	<input type="checkbox"/> Residential impacts
<input type="checkbox"/> UAO	<input type="checkbox"/> NPL site	<input type="checkbox"/> Relocation
<input type="checkbox"/> DOJ involved	<input type="checkbox"/> Remote location	<input checked="" type="checkbox"/> Drinking water impacted
<input checked="" type="checkbox"/> Criminal Investigation Division involved	<input type="checkbox"/> Extreme weather or abnormal field season	<input type="checkbox"/> Environmental justice
<input type="checkbox"/> Tribal consultation or coordination or other issues	<input checked="" type="checkbox"/> Congressional involvement	<input checked="" type="checkbox"/> High media interest
<input type="checkbox"/> Statutory Exemption for \$2 Million	<input type="checkbox"/> Statutory Exemption for 1 Year	<input type="checkbox"/> Active fire present
<input type="checkbox"/> Hazmat Entry Conducted – Level A, B or C	<input checked="" type="checkbox"/> Incident or Unified Command established	<input type="checkbox"/> Actual air release (not threatened)

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
#2 Diesel Oil	liquid	1700 gallons			
Contaminated Debris	solid	25 cubic yards			

2.2 Planning Section

2.2.1 Anticipated Activities

Continue the following response operations:

- Maintain recovery points on the Ohio River
- Continue SCAT inspections in Divisions A-E
- Continue helicopter overflights to monitor progress
- Continue Unified Command with the following entities: Ohio EPA, US Coast Guard, Kentucky DEP, Pierce Township, and Duke Energy
- Duke Energy will initiate mussel impact survey

2.2.1.1 Planned Response Activities

Continue the following response operations:

- Maintain Recovery operations at 6 locations on the Ohio River
- Continue daily Unified Command briefings
- Continue helicopter overflights to monitor response activities
- ODNR will continue wildlife impact assessment

2.2.1.2 Next Steps

Continue the following response operations:

- Maintain Recovery operations at 6 locations on the Ohio River
- Continue daily Unified Command briefings
- Continue helicopter overflights to monitor response activities
- ODNR will continue wildlife impact assessment

2.2.2 Issues

EPA personnel and equipment demobilized on August 21, 2014.

Command emphasis to complete SCAT inspections in Divisions A-E by August 22, 2014

2.3 Logistics Section

Incident Command Post established at Duke Energy Beckjord Station, 757 U.S. 52, New Richmond, Ohio.

Helicopter overflights are coordinated through the Logistics Section Chief.

2.4 Finance Section

2.4.1 Narrative

FPN #E14538 increased to \$75,000 on August 20, 2014.
 PRFA with USCG increased to \$15,000 for support on August 20, 2014.
 Duke Energy hired Clean Harbors for oil recovery operations.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
USCG PRFA	\$15,000.00	\$4,800.00	\$10,200.00	68.00%
START	\$30,000.00	\$8,270.00	\$21,730.00	72.43%
Intramural Costs				
USEPA - Direct	\$30,000.00	\$4,075.00	\$25,925.00	86.42%
Total Site Costs				
	\$75,000.00	\$17,145.00	\$57,855.00	77.14%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer

Safety Officer is Duke Energy Dufau II.

2.5.2 Liaison Officer

Liaison Officer is Clermont County EMA Pam Haverkos, Hamilton County EMA Rick Jones and Ed Frambes, Duke Energy Tony Reinert.

2.5.3 Information Officer

Information Officer is Duke Energy Sally Thelen.

EPA Information Officer Francisco Arcaute arrived on-scene on August 20, 2014.

3. Participating Entities

3.1 Unified Command

EPA Region 5 (through August 21, 2014 at 1200 hrs)
 Ohio EPA
 US Coast Guard
 Kentucky DEP
 Pierce Township
 Duke Energy

3.2 Cooperating Agencies

Ohio EMA
 Ohio Department of Public Safety
 Ohio Department of Natural Resources
 Clermont County EMA / LEPC
 Clermont County Administration
 Clermont County Community and Economic Development
 Clermont County Water Resources
 Clermont County Office of Environmental Quality
 Hamilton County EMA / LEPC
 Pierce Township Fire Department
 Pierce Township Police Department
 Village of New Richmond Police Department
 Village of New Richmond Fire Department
 Anderson Township Fire Department
 Cincinnati Fire Department
 Cincinnati Police Department
 Greater Cincinnati Water Works
 ORSANCO
 Kentucky Division of Emergency Management
 Boone County Emergency Management Agency
 Kenton County Homeland Security / Emergency Management
 Campbell County Office of Emergency Management

4. Personnel On Site

EPA Region 5 - 3
START - 2
Ohio EPA - 2
US Coast Guard - 14
Duke Energy / PRP contractors - 75

5. Definition of Terms

DEP - Department Environmental Protection
EMA - Emergency Management Agency
KY - Kentucky
LEPC - Local Emergency Planning Committee
NRC - National Response Center
ODNR - Ohio Department of Natural Resources
OPA - Oil Pollution Act
ORSANCO - Ohio River Sanitation Commission
PRFA - Pollution Removal Funding Authorization
PRP - Potentially Responsible Party
SCAT- Shoreline Cleanup and Assessment Team

6. Additional sources of information

6.1 Internet location of additional information/report

<http://www.epaosc.org/dukeenergyspill>

6.2 Reporting Schedule

POLREP #2 is the final POLREP.

7. Situational Reference Materials

See images section of epaosc.org/dukeenergyspill for photos.
See documents section of epaosc.org/dukeenergyspill for Division Map.

POLREP #2 Last Updated 8/21/2014