



May 15, 2014

Bryan L. Barker
2780 Coonpath Rd. NE
Lancaster, Ohio 43130

Ohio EPA, DERR—ER (via: cindy.stanwick@epa.ohio.gov)
Lazarus Government Center
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049
ATTN: ER Records Mgmt.

Dear Ohio EPA, DERR—ER:

Provided is a written follow-up for a mineral oil release from a pad-mounted transformer that occurred at 7630 Jefferson Drive Canal Winchester, OH on 4/16/2014. The Ohio EPA, Emergency Response spill number assigned to this release is **1404-23-0675**.

This information is being provided as required pursuant to ORC Section 3750.06(D) and OAC Rule 3750-25-25(A) (2).

1. Who

(a) Complete facility name, address and telephone number of the facility from which the release occurred. Complete name of owner and/or operator.

South Central Power Co. (SCP) owns the pad-mounted service transformer that is located at 7630 Jefferson Drive Canal Winchester, OH.

2. When

(a) Actual time, date, and duration of the discharge or release.

It is unknown when the release occurred. A resident called SCP the morning of 4-16-14 to report dead grass in their yard near the transformer.

(b) Actual time and date of discovery of the release or discharge.

South Central Power Co. Operations (SCP Ops) employees discovered the spill when they arrived on site at approximately 10:00AM on 4/16/2014.

(c) Actions taken to respond to and contain the release or discharge.

Upon discovery, SCP Ops assessed the release and placed oil absorbent booms around the nearest storm drain as a precaution. SCP Ops contacted SCP's Environmental Director (Bryan Barker). Barker contacted a professional spill clean-up contractor (Environmental Management Specialists (EMS)).

(d) Indicate the spill number assigned by Ohio EPA. (If you do not know this number, call a duty officer during business-hours and ask. The telephone number is 614-644-3194). If the National Response Center was notified, please provide their assigned case number.

The Ohio EPA, Emergency Response spill number assigned to this release is 1404-23-0675.

3. Location

(a) Location of facility from which the release or discharge occurred.

7630 Jefferson Drive Canal Winchester, OH

(b) Location of release: county, township, and city.

Fairfield County, Madison Township, Canal Winchester, OH

(c) Longitude and latitude of the release, if known.

N/A

(d) Distance and direction from nearest intersection or milepost if it was a transportation related release or discharge.

N/A

4. Product Release

(a) Common and/or technical name(s) of the material(s) released or discharged and CAS Numbers(s).

Dielectric Mineral Oil

(b) What was the quantity and duration of the discharge? Indicate volume(s) in gallons or pounds.

An estimate of 20-30 gallons of mineral oil was released. The duration is unknown.

5. Environmental Impact

(a) Name of the environmental medium or media affected (i.e. navigable waters, land, and/or air). If navigable waters, please identify.

Land

(b) What was the length of area of the navigable waterway affected?

N/A

(c) What was the ground surface area (square feet or yards) and depth of soil contamination? Approximately 114 square feet of soil was contaminated to a depth of 6"-18".

(d) To the extent information is available, identify damage to wildlife and/or vegetation.

N/A

(e) To the extent information is available, identify impact to human health and safety (i.e. evacuations, exposure, etc.)

N/A

(f) Where appropriate, identify medical advice provided for exposed individuals and or local medical personnel.

N/A

6. Monitoring and Detection

(a) If the release or discharge was monitored, indicate the method of detection and concentrations detected.

Due to excess water saturation in the soil, Recovery Wells were installed (per Chris Holmes, Ohio EPA) to recover and monitor oily water.

(b) If the release was air-borne, how was the wind direction and speed determined? N/A

(c) Was the public warned, and if so, how? N/A

7. Mitigation, Containment Action

(a) How much product or waste was recovered or neutralized?

All recoverable visible traces of oil in the soil plus a lateral buffer were removed (240 sq. ft. (30 drums)). Recovery wells continue to be monitored and water with oil sheen recovered (3 drums).

(b) How was the material recovered or neutralized?

All visible traces of oil in the soil plus a lateral buffer were recovered by shovel and excavator. Solid surfaces were double washed and double rinsed to recover oily residue. Recovery Wells were installed to recover water with oil sheen.

(c) Were any other actions taken to reduce the impact of the discharge (containment, adsorbents, on-site treatment, etc.)?

SCP removed the leaking transformer and placed it into a transformer oil-containment bag. Oil absorbent booms were placed on the ground and the nearest storm drain as a precaution.

8. Prevention Measures

Please provide plans to prevent recurrence of the discharge or release which may occur at this specific source. This may include: employee training, replacement of equipment, construction, or security measures such as lighting, fencing or locks.

SCP does not believe this incident was preventable, since the equipment failure was unpredictable. SCP will continue to contain and respond to spills as expeditiously as possible upon discovery.

9. Health Risks

List known or anticipated acute and chronic health risks of exposure associated with the substances which were released.

Mineral Oil Potential Health Effects:

Inhalation: Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem.

Eye Contact: Expected to be minor eye irritant.

Skin Contact: Repeated or prolonged skin contact may cause dermatitis and defatting.

Ingestion: Not expected to be acutely toxic.

Chronic: None known.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If Breathing is difficult give oxygen. Get medical attention.

Eye Contact: Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

Skin Contact: Flush with large amounts of water. Use soap if possible. Remove severely contaminated clothing and wash before reuse. If irritation persists seek medical attention.

Ingestion: If swallowed, DO NOT induce vomiting.

Source: MSDS; WARREN OIL COMPANY, INC.; **Product Name:** Coastal Transformer Oil Type II (all containers);

Chemical Name: Mineral oil

10. Permit Numbers

(a) Indicate any air, water, or other permit numbers which may be pertinent to this incident (voluntary information). N/A

(b) If this is a NPDES/air permit, please enclose a copy of your current effluent/emission limitations. N/A

11. Chronology

Provide a chronological review of the incident. Include a chronology of communications with state and local government.

DATE	APPROXIMATE TIME	DESCRIPTION
4/16/14	0900	Resident called SCP to report dead grass near transformer.
4/16/14	1000	SCP Ops arrived and discovered leaking transformer.
4/16/14	1020	SCP Ops Supervisor contacted SCP Environmental Director (Bryan Barker).
4/16/14	1025	Barker contacted spill cleanup contractor (Environmental Management Specialists (EMS)).
4/16/14	1140	Barker met EMS and SCP Ops Supervisor to assess the site.
4/16/14	1330	EMS contacted OUPS to locate underground utilities prior to excavating soil.
4/16/14	1330-1730	EMS conducted containment and recovery of oil saturated soil.
4/16/14	1400-1500	SCP removed the leaking transformer and placed it into a transformer containment bag. EMS assessed the conduit hole in the pad and stated there was a lot of ground water in it, with slight oil sheen. EMS decanted the water and used oil absorbent pads to remove the oil sheen. EMS also double washed and double rinsed a small amount of oil off of the edge of the concrete pad.
4/16/14	1600	EMS obtained an oil sample (for PCB analysis) from the transformer.
4/16/14	1630	Barker contacted Chris Holmes (Ohio EPA) to discuss the spill. Barker described the spill area, mentioned that this is a 1974 unit (assumed PCB), that SCP will have the oil analyzed for PCBs the next day, described the nearest drainage system and mentioned that

		the start date and time of the spill was unknown. Holmes instructed Barker to have the remaining oil pumped out of the transformer and compare the amount recovered to the nameplate capacity to see how much oil was lost; if 25 gallons or more was lost, then this would be a reportable spill.
4/16/14	1900	EMS called Barker and said an estimated 27 gallons was recovered from the unit.
4/16/14	1900-2015	Barker made multiple contacts to research how many gallons of oil the transformer may have initially held, since the nameplate did not show this information. Best estimate is that the unit held between 45 to 55 gallons; therefore, the estimated amount lost is 20-30 gallons.
4/16/14	2055	Barker reported the spill to SERC 800-282-9378 (Dispatcher Miller).
4/16/14	2057	Barker reported the spill to Fairfield County LEPC 740-654-4357 (Jon Kochis); left a voice message.
4/16/14	2058	Barker reported the spill to Madison Township FD 740-837-5149; no one answered; no voicemail.
4/16/14	2058	Gavin Armstrong (Ohio EPA) called Barker of the spill details. Barker mentioned that he had spoken to Chris Holmes (Ohio EPA) earlier in the day.
4/17/14	0700-1530	EMS conducted containment and recovery of oil saturated soil. Installed Recovery Wells.
4/17/14	0700-1245	Barker contacted Ohio EPA / SERC (Chris Holmes). Barker informed Holmes that EMS has hand dug 12-18" deep near the transformer and there are still traces of oil; and that we are battling ground water because this low-lying area stays so wet. Holmes asked if the oil could have entered the hole in the padmount and follow the cable run; Barker told Holmes that EMS stated the hole was full of ground water with a slight oil sheen and based on their observations, the ground water was preventing the oil from entering the hole and forcing the oil to the outside of the transformer box. Holmes recommended that EMS install a couple T-shaped recovery trenches out of PVC pipe; and to monitor the oil interceptor trenches for one month to see if any oil is being collected. Holmes said to try to remove what we can by shovel. Holmes noted that the spill ID is 1404-23-0675.

4/18/14	0700-1600	EMS conducted containment and recovery of oil saturated soil. Installed Recovery Wells.
4/21/14	0800-1500	EMS restored the excavation area with topsoil, seed, and straw.
4/29/14	0830-0915	EMS assessed the site for surface migration of oil; none was observed. EMS assessed wells #1 and #4 (the other two were under water); a minimal sheen was observed and an oil absorbent pad used to remove the slight sheen.
05/01/14	1430-1730	EMS assessed the site for surface migration of oil; none was observed. EMS recovered surface water; no sheen was present. EMS assessed all four wells; a minimal sheen was observed in well #1; the other wells were free of oil sheen. 27 gallons of water was recovered for proper disposal from each of the four wells.
05/13/14	1430-1730	EMS assessed the site for surface migration of oil; none was observed. EMS assessed wells #1, #2, and #3 (the cap was seized on #4); no sheen was present in any of the wells. 18 gallons of water was recovered for proper disposal from each of the four wells.

12. Documentation

Provide any reports or other documents which pertain to the incident (e.g. accident reports, manifest, bills of lading, laboratory analyses).

Attached is an Analytical Report which shows the PCB content as non-detectable (<1 ppm).

13. Causes

Describe any extenuating circumstances which caused the discharge.

N/A

14. Economic Impact

(This information is voluntary)

(a) Estimate the dollar value, if any, of the spilled product. \$250

(b) What was the equipment damage cost (estimate)? Unknown

(c) What was the cost of spill cleanup (estimate)? \$7,500 to \$15,000

(d) What are the estimated costs of spill prevention to eliminate possible reoccurrence of this event?

SCP does not believe this incident was preventable, since the equipment failure was unpredictable.

Please feel free to contact me if you have any questions regarding this follow-up report.

Sincerely,

A handwritten signature in black ink that reads "Bryan L. Barker". The signature is written in a cursive style with a large initial "B".

Bryan L. Barker

Director of Safety and Environmental Control

Office: 800-282-5064 or 740-653-4422; Ext: 6255

Cell: 740-415-6123

Email: barker@southcentralpower.com

Cc: Fairfield County LEPC

TEST RESULTS

Alternative Technologies, Inc.
 12350 River Ridge Blvd.
 Burnsville, MN 55337
 Telephone (800) 255-8656 or (952) 894-3455

PCB CONTENT
 USEPA METHOD 8082

Bryan Barker
 South Central Power Co.
 PO Box 250
 Lancaster, OH 43130

Report Date: 17-Apr-14

Date Received: 17-Apr-14

SAMPLE IDENTIFICATION	LABORATORY NUMBER	AROCOLOR	RESULTS
S/N: 74ZB955017 CO#: 7660 7630 JEFFERSON DR	180964-001		<1 ppm

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Approved by: *SA BAMA*