

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGIONS 3 AND 5

IN THE MATTER OF:)
)
East Palestine Train Derailment Site)
East Palestine, Columbiana County, Ohio)
)
Norfolk Southern Railway Company,)
)
Respondent)
)
Proceeding under Section 106(a))
of the Comprehensive Environmental)
Response, Compensation, and Liability)
Act, as amended, 42 U.S.C. § 9606(a).)
)

CERCLA Docket No. V-W-23-C-004

**UNILATERAL ADMINISTRATIVE
ORDER FOR REMOVAL ACTIONS**

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I. JURISDICTION AND GENERAL PROVISIONS

1. This Administrative Order (“Order”) is issued under the authority vested in the President of the United States by Section 106(a) of the Comprehensive Environmental Response, Compensation, and Liability Act, (CERCLA), as amended, 42 U.S.C. § 9606(a). This authority was delegated to the Administrator of the United States Environmental Protection Agency (EPA) by Executive Order No. 12580, 52 Fed. Reg. 2923 (Jan. 23, 1987), and further delegated to the Regional Administrators by EPA Delegation Nos. 14-14A and 14-14B. This authority was further redelegated by the Regional Administrator of EPA Region 5 to the Director of the EPA Region 5 Superfund & Emergency Management Division by EPA Region 5 Delegation Nos. 14-14-A (Aug. 24, 2015) and 14-14-B (May 11, 1996) and by the Regional Administrator of EPA Region 3 to the Director of the EPA Region 3 Superfund & Emergency Management Division by EPA Region 3 Delegation Nos. 14-14-A (April 15, 2019) and 14-14-B (April 15, 2019).

2. This Order pertains to property located at the Rail Line east northeast of the intersection of East Taggart Street and North Pleasant Drive (Latitude: 40.8360395; Longitude: 80.5222838) in East Palestine, Ohio (the “East Palestine Train Derailment Site”), which is more specifically defined in the definition of “Site” in Paragraph 6, below. In addition to the response actions that are currently occurring, this Order requires Respondent to conduct removal actions described herein to abate an imminent and substantial endangerment to the public health or welfare or the environment that may be presented by the actual or threatened release of hazardous substances at or from the Site.

3. EPA has notified the State of Ohio and the Commonwealth of Pennsylvania (collectively, the “States”) of this action pursuant to Section 106(a) of CERCLA, 42 U.S.C. § 9606(a).

II. PARTIES BOUND

4. This Order applies to and is binding upon Respondent and its successors and assigns. Any change in ownership or control of the Site or change in the corporate or partnership status of Respondent, including, but not limited to, any transfer of assets or real or personal property, shall not alter Respondent’s responsibilities under this Order.

5. Respondent shall provide a copy of this Order to each contractor hired to perform the Work required by this Order and to each person representing the Respondent with respect to the Site or the Work, and shall condition all contracts entered into hereunder upon performance of the Work in conformity with the terms of this Order. Respondent or its contractors shall provide written notice of the Order to all subcontractors hired to perform any portion of the Work required by this Order. Respondent shall nonetheless be responsible for ensuring that its contractors and subcontractors perform the Work in accordance with the terms of this Order.

III. DEFINITIONS

6. Unless otherwise expressly provided in this Order, terms used in this Order that are defined in CERCLA or in regulations promulgated under CERCLA shall have the meaning assigned to them in CERCLA or in such regulations. Whenever terms listed below are used in this

Order or in appendices to or documents incorporated by reference into this Order, the following definitions shall apply:

“Affected Property” shall mean all real property at the Site and any other real property where EPA determines, at any time, that access or land, water, or other resource, use restrictions are needed to implement the removal action.

“CERCLA” shall mean the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, 42 U.S.C. §§ 9601-9675.

“Day” or “day” shall mean a calendar day. In computing any period of time under this Order, where the last day would fall on a Saturday, Sunday, or federal or State holiday, the period shall run until the close of business of the next working day.

“Effective Date” shall mean the effective date of this Order as provided in Section VIII.

“EPA” shall mean the United States Environmental Protection Agency and its successor departments, agencies, or instrumentalities.

“EPA Hazardous Substance Superfund” shall mean the Hazardous Substance Superfund established by the Internal Revenue Code, 26 U.S.C. § 9507.

“OEPA” shall mean the Ohio Environmental Protection Agency and any successor departments or agencies of the State of Ohio.

“PADEP” shall mean the Pennsylvania Department of Environmental Protection and any successor departments or agencies of the Commonwealth of Pennsylvania.

“Interest” shall mean interest at the rate specified for interest on investments of the EPA Hazardous Substance Superfund established by 26 U.S.C. § 9507, compounded annually on October 1 of each year, in accordance with 42 U.S.C. § 9607(a). The applicable rate of interest shall be the rate in effect at the time the interest accrues. The rate of interest is subject to change on October 1 of each year. Rates are available online at <https://www.epa.gov/superfund/superfund-interest-rates>.

“National Contingency Plan” or “NCP” shall mean the National Oil and Hazardous Substances Pollution Contingency Plan promulgated pursuant to Section 105 of CERCLA, 42 U.S.C. § 9605, codified at 40 C.F.R. Part 300, and any amendments thereto.

“Non-Respondent Owner” shall mean any person, other than Respondent, that owns or controls any Affected Property. The phrase “Non-Respondent Owner’s Affected Property” means Affected Property owned or controlled by Non-Respondent Owner.

“Order” shall mean this Unilateral Administrative Order and all appendices attached hereto. In the event of conflict between this Order and any appendix, this Order shall control.

“Paragraph” shall mean a portion of this Order identified by an Arabic numeral or an upper or lower case letter.

“Parties” shall mean EPA and Respondent.

“Post-Removal Site Control” shall mean actions necessary to ensure the effectiveness and integrity of the removal action to be performed pursuant to this Order consistent with Sections 300.415(l) and 300.5 of the NCP and “Policy on Management of Post-Removal Site Control” (OSWER Directive No. 9360.2-02, Dec. 3, 1990).

“RCRA” shall mean the Resource Conservation and Recovery Act, also known as the Solid Waste Disposal Act, as amended, 42 U.S.C. §§ 6901-6992.

“Respondent” shall mean Norfolk Southern Railway Company.

“Response Costs” shall mean all costs, including, but not limited to, direct and indirect costs, that the United States incurs in monitoring and supervising Respondent’s performance of the Work to determine whether such performance is consistent with the requirements of this Order, including costs incurred in reviewing deliverables submitted pursuant to this Order, as well as costs incurred in overseeing implementation of this Order, including, but not limited to, payroll costs, contractor costs, travel costs, and laboratory costs.

“Section” shall mean a portion of this Order identified by a Roman numeral.

“Site” shall mean the areal extent of where hazardous substances have come to be located, in Ohio and Pennsylvania, as a result of the Norfolk Southern Railway Company train derailment that occurred on February 3, 2023, at the rail line northeast of East Taggart Street and North Pleasant Drive intersection in East Palestine, Columbiana County, Ohio (Latitude: 40.8360395 Longitude: 80.5222838) and the subsequent emergency response activities including, but not limited to, breached rail cars and the controlled “vent and burn” that occurred on February 6, 2023.

“States” shall mean the State of Ohio and the Commonwealth of Pennsylvania.

“Transfer” shall mean to sell, assign, convey, lease, mortgage, or grant a security interest in, or where used as a noun, a sale, assignment, conveyance, or other disposition of any interest by operation of law or otherwise.

“United States” shall mean the United States of America and each department, agency, and instrumentality of the United States, including EPA.

“Waste Material” shall mean (a) any “hazardous substance” under Section 101(14) of CERCLA, 42 U.S.C. § 9601(14); (b) any pollutant or contaminant under Section 101(33) of CERCLA, 42 U.S.C. § 9601(33); (c) any “solid waste” under Section 1004(27) of RCRA, 42 U.S.C. § 6903(27); (d) any “hazardous waste” under 37 Ohio Rev. Code § 3734.01(J); (e) any “hazardous substance” under 27 P.S. § 6020.103 and (f) any “hazardous waste” under 25 Pa. Code 261a.3.

“Work” shall mean all activities Respondent is required to perform under this Order, except those required by Section XV (Retention of Records).

IV. FINDINGS OF FACT

7. The East Palestine Train Derailment Site is located in East Palestine, Columbiana County, Ohio, at approximately Latitude: 40.8360395; Longitude: -80.5222838. which is more specifically defined in the definition of “Site” in Paragraph 6 above.

8. The area immediately south of the Site is a mixed-use commercial, industrial, and residential area. The area north of the Site is a commercial and industrial area, with additional residences to the northeast. The nearest residences are less than 1,000 feet from the derailment Site.

9. The East Palestine Train Derailment Site is located within a mixed-use residential, commercial, and industrial area, with residential properties northwest, southeast, and south of the derailment area. Residential properties are also located along contaminated waterways which became contaminated after the derailment and are within the affected area. The Ohio-Pennsylvania border is located less than a mile from the derailment location. The nearest public well supply is located approximately one (1) mile from the derailment location. A ditch, located on the south side of the tracks flows west for approximately 1,000 feet before it empties into Sulphur Run, which joins Leslie Run, to Bull Creek, to North Fork Little Beaver Creek, to Little Beaver Creek before emptying into the Ohio River. Wetlands and State Line Lake are located immediately adjacent to the Northeast of the Site. Segments of the affected waterways are considered to be habitat for the Eastern Hellbender, an endangered species of salamander.

10. Norfolk Southern Railway Company owns and operates a Class I freight railroad that passes through the town of East Palestine, Ohio.

11. A train derailment occurred at approximately 2055 eastern standard time (EST) on February 3, 2023, in East Palestine, Columbiana County, Ohio, less than a mile from the Ohio-Pennsylvania border. Norfolk Southern Railway Company reported the incident at 2253 EST to the National Response Center (NRC). Federal, state, and local officials arrived on scene after the derailment. EPA mobilized to the Site with EPA Superfund Technical Assessment and Response Team (START) at approximately 2330 EST on February 3, 2023. Norfolk Southern Railway Company, Ohio Environmental Protection Agency (OEPA), Columbiana County, Village of East Palestine, Pennsylvania Department of Environmental Protection (PADEP), Ohio Department of Natural Resources (ODNR), Butler County Incident Management Team (IMT), Federal Railroad Administration (FRA), National Transportation Safety Board (NTSB), and other agencies also mobilized to the Site. EPA coordinated with the Interagency Modeling and Atmospheric Assessment Center (IMAAC) to provide plume modeling throughout the duration of the derailment fire.

12. At the time of the initial report, the number of derailed rail cars (of the 149) was unknown but 20 of the rail cars were listed by Norfolk Southern Railway Company as carrying hazardous materials, described as: Vinyl Chloride, Stabilized (5); Sulfuric Acid (5); Ethylene Glycol Monobutyl Ether (1); Butyl Acrylate, Stabilized (2); Combustible Liquids nos (1);

Isobutylene (1) Ethyl-Hexyl Acrylate(1); Empty Residue – last contained liquified petroleum gas (LPG) (1); Residue – last contained Benzene (2).

13. The derailment resulted in a large fire affecting numerous rail cars, including rail cars carrying hazardous materials, although the status (e.g. breached, burning, etc.) was initially unknown due to safety concerns associated with the fire as well as the position of the derailed cars, which affected the ability of responders to identify which rail cars were actively breached and/or burning. Initially, a shelter-in-place order was recommended, and firefighting efforts were stood down due to safety concerns; however, an evacuation order was enacted by the Village of East Palestine on February 4, 2023. The fire continued to burn throughout the following days. Local citizens reported smoke from the fire observed over the State of Ohio and the Commonwealth of Pennsylvania.

14. Ohio officials, working with the Fire Chief as Incident Commander, evacuated residents within a one-mile radius and took other emergency actions to protect human health and the environment in the aftermath of the derailment. EPA supported these efforts with air monitoring and sampling, including EPA’s Airborne Spectral Photometric Environmental Collection Technology (ASPECT) aircraft, and sampling and indoor air monitoring on a voluntary basis. In addition, a mobile laboratory was mobilized to analyze air samples.

15. After monitoring on February 5, 2023, indicated rising temperatures in a tank car containing vinyl choride, Respondent, in consultation with Ohio response officials, vented and burned product into a flare trench on February 6, 2023, in order to prevent a catastrophic explosion of the rail car.

16. The February 6, 2023, controlled “vent and burn” involved five (5) rail cars containing vinyl chloride in a flare trench to prevent a catastrophic explosion of the rail cars. In advance of the controlled “vent and burn” and based on plume modeling conducted by IMAAC and the Ohio National Guard 52nd Civil Support Team, the evacuation radius described in Paragraph 13 was increased to a roughly one-mile by two-mile area pursuant to evacuation orders issued by the State of Ohio and the Commonwealth of Pennsylvania.

17. Norfolk Southern Railway Company provided response officials at the Site, including EPA, with a list of the contents of the rail cars which derailed at the Site. See Appendix A. On February 3, 2023, at 2201 EST, Norfolk Southern Railway Company provided response officials at the Site with a consist (manifest) which details the volume of materials in each rail car. See Appendix B. Rail cars 23 through 74 were the rail cars which derailed, eleven of which contained hazardous materials. See Appendix C for a labeled aerial photo of a subset of those cars. The hazardous materials contained in these eleven rail cars are as follows:

Rail Car #	Hazardous Materials	Amount
TILX 402025	Vinyl Chloride	178,300 pounds
OCPX 80235	Vinyl Chloride	177,250 pounds

OCPX 80179	Vinyl Chloride	177,600 pounds
GATX 95098	Vinyl Chloride	178,150 pounds
OCPX 80370	Vinyl Chloride	176,100 pounds
SHPX 211226	Ethylene Glycol Monobutyl Ether	185,750 pounds
DOWX 73168	Ethylhexyl Acrylate	205,900 pounds
UTLX 205907	Butyl Acrylate	180,000 pounds
NATX 35844	Isobutylene	155,642 pounds
DPRX 259013	Benzene	Residue
DPRX 258671	Benzene	Residue

18. Releases of hazardous substances occurred after the derailment and subsequent fires. Releases to the air occurred when hazardous substances spilled from the rail cars, when smoke from burning rail cars was produced, and hazardous substances including vinyl chloride, phosgene and hydrogen chloride were released. Releases to surface water occurred when liquid product exited rail cars and also when run-off from firefighting efforts at the derailment location moved through a ditch to Sulphur Run, which joins Leslie Run, to Bull Creek, to North Fork Little Beaver Creek, to Little Beaver Creek, and then the Ohio River. Releases to soil occurred (1) when liquid product exited rail cars after the derailment (2) when run-off from firefighting efforts at the derailment location flowed from the right-of-way to adjoining property, and (3) when ash from the burns landed on soil. Local citizens reported smoke from the burns observed over the State of Ohio and the Commonwealth of Pennsylvania.

19. Populations at risk include:

- a. Human residents;
- b. Human workers;
- c. Wildlife including but not limited to:
 - (1) Several fish species as well as the eastern hellbender, an endangered species with habitat within portions of the affected waterways;
 - (2) Domesticated pets;

- d. Agricultural areas which supply the human food supply and the animal food chain.

20. The following are health/environmental effects associated with the hazardous materials involved in the derailment, or were detected in air, water, soil, and sediment samples, or were combustion by-products of some of those chemicals at the Site:

- a. **Vinyl Chloride:** Breathing high levels of vinyl chloride can cause dizziness or sleepiness. Breathing very high levels can cause fainting and breathing even higher levels can cause death. Studies have shown chronic inhalation of vinyl chloride for several years causes changes in the structure of the liver, and individuals who breath high levels are more likely to experience these changes. Highly exposed workers have also developed liver cancer (angiosarcoma of the liver). The effects of ingesting high levels of vinyl chloride are unknown. Dermal exposure may cause numbness, redness, and blisters. Animal studies have shown that exposure to vinyl chloride during pregnancy can affect the growth and development of the fetus. Vinyl chloride is a known human carcinogen according to the Department of Health and Human Services (DHHS), the International Agency for Research or Cancer (IARC), and the EPA.

- b. **Ethylene Glycol Monobutyl Ether:** Routes of exposure include ingestion and dermal contact. Inhaling Ethylene glycol monobutyl ether can irritate the nose and throat. It can also cause nausea, vomiting, diarrhea, and abdominal pain. Exposure can cause headache, dizziness, lightheadedness, and passing out. It may damage the liver and kidneys.

- c. **Isobutylene:** Acute exposure to isobutylene is associated with the following health effects: irritation of eyes, nose, and throat; dermal contact can cause frostbite; headache, dizziness, lightheadedness, and fatigue. Higher levels of isobutylene can cause coma and death. Chronic health hazards include cancer hazard, reproductive hazard, and other long-term health effects.

- d. **Benzene:** Breathing very high levels of benzene can result in death, while high levels can cause drowsiness, dizziness, rapid heart rate, headaches, tremors, confusion, and unconsciousness. Exposure through ingestion can cause vomiting, irritation of the stomach, dizziness, sleepiness, convulsions, rapid heart rate, and death. The major effect of benzene from chronic exposure is on the blood. Benzene causes harmful effects on the bone marrow and can cause a decrease in red blood cells leading to anemia. It can also cause excessive bleeding and can affect the immune system, increasing the chance of infection. Benzene may affect menstruation and decrease the size of ovaries in women following many months of exposure to high levels. Benzene is a known human carcinogen according to the Department of Health and Human Services, the International Agency for Research or Cancer (IARC), and the EPA.

- e. **Butyl Acrylate:** Butyl acrylate can cause health effects due to inhalation and through dermal contact. Contact with butyl acrylate can irritate the nose, throat, and lungs. Butyl acrylate may cause a skin allergy. Exposure to butyl acrylate can cause headache, dizziness, nausea, and vomiting. Repeated exposure can lead to permanent lung damage.

- f. **Phosgene:** Exposure to phosgene in the air can cause eye and throat irritation. High amounts in the air can cause severe lung damage. Exposure can occur through

inhalation, dermal contact, or (less likely) ingestion. Higher levels of phosgene can cause lungs to swell, making it difficult to breathe. Even higher levels can result in severe lung damage that might lead to death. Dermal contact with phosgene can result in chemical burns or may cause frostbite.

g. **Hydrogen Chloride:** Hydrogen chloride is irritating and corrosive to any tissue it contacts. Brief exposure to low levels causes throat irritation. Exposure to higher levels can result in rapid breathing, narrowing of the bronchioles, blue coloring of the skin, accumulation of fluid in the lungs, and even death. Exposure to even higher levels can cause swelling and spasm of the throat and suffocation. Some people may develop an inflammatory reaction to hydrogen chloride. This condition is called reactive airways dysfunction syndrome (RADS), a type of asthma caused by some irritating or corrosive substances. Depending on the concentration, hydrogen chloride can produce conditions from mild irritation to severe burns of the eyes and skin. Long-term exposure to low levels can cause respiratory problems, eye and skin irritation, and discoloration of the teeth. Swallowing concentrated hydrochloric acid will cause severe corrosive injury to the lips, mouth, throat, esophagus, and stomach.

21. Acrylate odors were noted by responders during indoor air monitoring.

22. Acrylate odors along Sulphur Run, Leslie Run, Bull Creek, North Fork Little Beaver Creek, and Little Beaver Creek were noted by responders during sampling and containment activities.

23. ODNR reported an estimated number of aquatic animals killed at approximately 3,500. Those aquatic animals were found in Sulphur Run, Leslie Run, Bull Creek, and a portion of the North Fork of Beaver Creek. Most of the fish appear to be small suckers, minnows, darters, and sculpin. Most of these deaths are believed to have been caused by the immediate release of contaminants into the water.

24. Respondent is a corporation organized under the laws of the state of Virginia. Respondent is liable under CERCLA § 107(a)(1) as the owner and/or operator of the train that derailed at the Site, and as the owner and/or operator of the rail line from which the train derailed.

V. CONCLUSIONS OF LAW AND DETERMINATIONS

25. Based on the Findings of Fact set forth above, and the administrative record, EPA has determined that:

a. The East Palestine Train Derailment Site is a “facility” as defined by Section 101(9) of CERCLA, 42 U.S.C. § 9601(9).

b. Norfolk Southern Train 32N and the individual rail cars comprising the train are “rolling stock” and therefore are a “facility” as defined by Section 101(9) of CERCLA, 42 U.S.C. § 9601(9).

c. Respondent is a “person” as defined by Section 101(21) of CERCLA, 42 U.S.C. § 9601(21).

d. Respondent is a liable party under one or more provisions of Section 107(a) of CERCLA, 42 U.S.C. § 9607(a).

(1) Respondent Norfolk Southern Railway Company is the “owner” and/or “operator” of the facility, as defined by Section 101(20) of CERCLA, 42 U.S.C. § 9601(20), and within the meaning of Section 107(a)(1) of CERCLA, 42 U.S.C. § 9607(a)(1).

(2) Respondent Norfolk Southern Railway Company is the “owner” and/or “operator” of the facility at the time of disposal of hazardous substances at the facility, as defined by Section 101(20) of CERCLA, 42 U.S.C. § 9601(20), and within the meaning of Section 107(a)(2) of CERCLA, 42 U.S.C. § 9607(a)(2).

e. The contaminants vinyl chloride, benzene, and butyl acrylate found at the Site, as identified in the Findings of Fact above, are each a “hazardous substance” as defined by Section 101(14) of CERCLA, 42 U.S.C. § 9601(14) that may present an imminent and substantial danger to public health or welfare under Section 104(a)(1) of CERCLA, 42 U.S.C. § 9604(a)(1).

f. The conditions described in Paragraphs 7-24 of the Findings of Fact above constitute an actual and/or threatened “release” of a hazardous substance from the facility as defined by Section 101(22) of CERCLA, 42 U.S.C. § 9601(22).

g. The conditions at the Site may constitute a threat to public health or welfare or the environment, based on the factors set forth in Section 300.415(b)(2) of the NCP. These factors include, but are not limited to, the following:

(1) **actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances and pollutants or contaminants.** This factor is present at the Site due to the existence of the discharge of vinyl chloride and butyl acrylate to one or more of the following: surface soils, surface waters, and air. ODNR reports the total estimated number of aquatic animals killed at approximately 3,500. Those animals were found in Sulphur Run, Leslie Run, Bull Creek, and a portion of the North Fork of Beaver Creek. Most of the fish appear to be small suckers, minnows, darters, and sculpin. Most of these deaths are believed to have been caused by the immediate release of contaminants into the water. Additionally, waste piles containing mixtures of vinyl chloride, butyl acrylate, ethylhexyl acrylate, and ethylene glycol monobutyl ether remain on site and pose a threat of exposure should containment be compromised. Acrylate odors continue to be noted along portions of Sulphur and Leslie Run.

(2) **actual or potential contamination of drinking water supplies or sensitive ecosystems.** This factor is present at the Site due to the release of vinyl chloride, butyl acrylate, ethylhexyl acrylate, and ethylene glycol monobutyl ether to surface soils and surface waters. The releases have impacted drinking water

resulting in the closures of water intakes on the Ohio River and have the potential to affect groundwater used for drinking water and irrigation;

(3) **hazardous substances and pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.** This factor is present at the Site due to the presence of damaged rail cars containing isobutylene and residual benzene. As of February 18, 2023, approximately 1,557,000 gallons of liquid wastes have been collected from the Site. OEPA has reported to EPA that as of February 17, 2023, 247,000 gallons have already been transported off site for disposal;

(4) **high levels of hazardous substances and pollutants or contaminants in soils largely at or near the surface, that may migrate.** This factor is present at the Site due to the breaching of rail cars releasing, but not limited to, vinyl chloride, butyl acrylate, ethylhexyl acrylate, and ethylene glycol monobutyl ether. As of February 18, 2023, approximately 13,600 cubic yards of grossly contaminated soils have been excavated and staged on Site;

(5) **weather conditions that may cause hazardous substances and pollutants or contaminants to migrate or be released.** This factor is present at the Site due to the continuing presence of hazardous substances, including but not limited to, vinyl chloride, butyl acrylate, ethylhexyl acrylate, and ethylene glycol monobutyl ether that were released from the derailment location to adjacent properties and downstream surface waters. Rainfall events have the potential to cause further releases to surface waters. Dry weather and remediation activities have the potential to result in the release of contaminated soils by tracking or dust emissions;

(6) **threat of fire or explosion.** This factor is present at the Site due to the continued presence of rail cars containing isobutylene (DOT Class 2.1 Flammable Gas) and residual benzene (DOT Class 3 Flammable Liquid);

(7) **other situations or factors that may pose threats to public health or welfare or the environment.** This factor is present at the Site due to the fact that a full assessment of the extent of contamination has not been completed.

h. The conditions described in Paragraphs 7-24 of the Findings of Fact above may constitute an imminent and substantial endangerment to the public health or welfare or the environment because of an actual or threatened release of a hazardous substance from the facility within the meaning of Section 106(a) of CERCLA, 42 U.S.C. § 9606(a).

i. The removal actions required by this Order are necessary to protect the public health, welfare, or the environment.

VI. ORDER

26. Based upon the Findings of Fact, Conclusions of Law and Determinations set forth above, and the administrative record, Respondents are hereby ordered to comply with all provisions of this Order and any modifications to this Order, including all appendices to this Order and all documents incorporated by reference into this Order.

VII. OPPORTUNITY TO CONFER

27. No later than 24 hours after this Order is signed by the Regional Administrators or their delegates, Respondent may, in writing, a) request a conference with EPA to discuss this Order, including its applicability, the factual findings and the determinations upon which it is based, the appropriateness of any actions Respondent is ordered to take, or any other relevant and material issues or contentions that Respondent may have regarding this Order, or b) notify EPA that it intends to submit written comments or a statement of position in lieu of requesting a conference.

28. If a conference is requested, Respondent may appear in person or by an attorney or other representative. Any such conference shall be held in person or by video conference at the discretion of EPA no later than 1 day after the conference is requested. Any written comments or statements of position on any matter pertinent to this Order must be submitted no later than 1 day after the conference or 2 days after this Order is signed if Respondent does not request a conference. This conference is not an evidentiary hearing, does not constitute a proceeding to challenge this Order, and does not give Respondent a right to seek review of this Order. Any request for a conference or written comments or statements should be submitted to:

Catherine Garypie, Office of Regional Counsel
U.S. Environmental Protection Agency
Region 5
77 West Jackson Blvd. (Mail Code C-14J)
Chicago, Illinois 60604
312-886-5825
garypie.catherine@epa.gov

and

Naeha Dixit, Office of Regional Counsel
U.S. Environmental Protection Agency
Region 5
77 West Jackson Blvd. (Mail Code C-14J)
Chicago, Illinois 60604
312-353-5542
dixit.naeha@epa.gov

VIII. EFFECTIVE DATE

29. This Order shall be effective 2 days after the Order is signed by the Regional Administrators or their delegates unless a conference is requested or notice is given that written materials will be submitted in lieu of a conference in accordance with Section VII (Opportunity to Confer). If a conference is requested or such notice is submitted, this Order shall be effective on the 2nd day after the day of the conference, or if no conference is requested, on the 1st day after written materials, if any, are submitted, unless EPA determines that the Order should be modified based on the conference or written materials. In such event, EPA shall notify Respondent, within the applicable 5 day period, that EPA intends to modify the Order. The modified Order shall be effective 5 days after it is signed by the Regional Administrators or their delegates.

IX. NOTICE OF INTENT TO COMPLY

30. On or before the Effective Date, Respondent shall notify EPA in writing of Respondent's irrevocable intent to comply with this Order. Such written notice shall be sent to EPA as provided in Paragraph 28. Respondent's written notice shall describe, using facts that exist on or prior to the Effective Date, any "sufficient cause" defense asserted by such Respondent under Sections 106(b) and 107(c)(3) of CERCLA, 42 U.S.C. §§ 9606(b) and 9607(c)(3). The absence of a response by EPA to the notice required by this Paragraph shall not be deemed to be acceptance of Respondent's assertions. Failure of Respondent to provide such notice of intent to comply within this time period shall, as of the Effective Date, be treated as a violation of this Order by Respondent.

X. DESIGNATION OF CONTRACTOR, PROJECT COORDINATOR, AND ON-SCENE COORDINATOR

31. **Selection of Contractors, Personnel.** All Work performed under this Order shall be under the direction and supervision of qualified personnel. Within 3 days after the Effective Date, and before the Work outlined below begins, Respondent shall notify EPA in writing of the names, titles, addresses, telephone numbers, email addresses, and qualifications of the personnel, including contractors, subcontractors, consultants, and laboratories to be used in carrying out such Work. If, after the commencement of the Work, Respondent retains additional contractors or subcontractors, Respondent shall notify EPA of the names, titles, contact information, and qualifications of such contractors or subcontractors retained to perform the Work at least 5 days prior to commencement of Work by such additional contractors or subcontractors. EPA retains the right, at any time, to disapprove of any or all of the contractors and/or subcontractors retained by Respondent. If EPA disapproves of a selected contractor or subcontractor, Respondent shall retain a different contractor or subcontractor and shall notify EPA of that contractor's or subcontractor's name, title, contact information, and qualifications within 2 days after EPA's disapproval. With respect to any proposed contractor, Respondent shall demonstrate that the proposed contractor demonstrates compliance with ASQ/ANSI E4:2014 "Quality management systems for environmental information and technology programs – Requirements with guidance for use" (American Society for Quality, February 2014), by submitting a copy of the proposed contractor's Quality Management Plan (QMP). The QMP should be prepared in accordance with "EPA Requirements for Quality Management Plans (QA/R-2)" (EPA/240/B-01/002, Reissued May 2006) or equivalent documentation as determined by EPA. The qualifications of the persons

undertaking the Work for Respondent shall be subject to EPA's review for verification based on objective assessment criteria (e.g., experience, capacity, technical expertise) and that they do not have a conflict of interest with respect to the project.

32. Within 3 days after the Effective Date, Respondent shall designate a Project Coordinator who shall be responsible for administration of the Work required by this Order and shall submit to EPA the designated Project Coordinator's name, title, address, telephone number, email address, and qualifications. To the greatest extent possible, the Project Coordinator shall be present on Site or readily available during the Work. EPA retains the right to disapprove of the designated Project Coordinator who does not meet the requirements of Paragraph 31 (Selection of Contractors, Personnel). If EPA disapproves of the designated Project Coordinator, Respondent shall retain a different Project Coordinator and shall notify EPA of that person's name, title, contact information, and qualifications within 1 day following EPA's disapproval. Respondent shall have the right to change its Project Coordinator, subject to EPA's right to disapprove. Respondent shall notify EPA 5 days before such a change is made. The initial notification may be made orally, but shall be promptly followed by a written notification. Communications between Respondent and EPA, and all documents concerning the activities performed pursuant to this Order, shall be directed to the Project Coordinator. Receipt by Respondent's Project Coordinator of any notice or communication from EPA relating to this Order shall constitute receipt by Respondent.

33. EPA has designated Ralph Dollhopf of the EPA Region 5, Superfund & Emergency Response Division, Emergency Response Branch, as the On-Scene Coordinator (OSC) for the Site and for Work performed in Ohio. EPA has designated Jack Kelly of the EPA Region 3, Superfund & Emergency Response Division, Emergency Response Branch, as its OSC for Work performed in Pennsylvania.

34. EPA will notify Respondent of a change of one of its designated OSCs. Communications between Respondent and EPA, and all documents concerning the activities performed pursuant to this Order, shall be directed to the OSCs in accordance with Paragraph 39.a(1).

35. The OSCs shall be responsible for overseeing Respondent's implementation of this Order. The OSCs shall have the authority vested in a Remedial Project Manager (RPM) and an OSC by the NCP, including the authority to halt, conduct, or direct any Work required by this Order, or to direct any other response action when s/he determines that conditions at the Site constitute an emergency situation or may present a threat to public health or welfare or the environment. Absence of one or both OSCs from the Site shall not be cause for stoppage or delay of Work.

XI. WORK TO BE PERFORMED

36. In addition to the actions that it is currently performing, Respondent shall perform, at a minimum, all actions necessary to implement the following items. The actions to be implemented generally include, but are not limited to, the following:

- a. In conjunction with other federal, state and local agencies, Respondent shall participate in all required elements of the Site's response organization structure (Incident Command System) as established and coordinated by the OSCs;
- b. Develop and implement a Security Plan;
- c. Develop and implement an air monitoring and sampling plan for:
 - (1) Indoor air of occupied structures;
 - (2) Perimeter community air monitoring at any remediation areas;
- d. Develop and implement a plan for the identification and delineation of the extent of contamination for:
 - (1) Surface and subsurface soils;
 - (2) Surface waters and sediments;
 - (3) Groundwater;
 - (4) Drinking water sources;
- e. Develop and implement a plan for the containment and remediation of contaminated surface and sub-surface soils, surface waters and sediments, groundwater (including private, municipal, agricultural wells);
- f. As of the date of issuance of this Order, EPA expects to clean up dust and debris in the interior and exterior of buildings resulting from the February 3, 2023, train derailment and subsequent fires upon request. If at a later date EPA determines that it is appropriate for Respondent to take over this task, Respondent will be required to develop and implement a plan for these cleanup activities;
- g. Expected boundaries for work identified above are described below:
 - (1) For air, surface soil, interior and exterior home cleaning (1-mile x 2-mile evacuation area);
 - (2) For surface water and sediments (length of the contaminated surface waters from unnamed ditch to the Ohio River);
 - (3) For subsurface soils and groundwater (perimeter of and within the areal extent of derailment location); and
 - (4) Drinking water sources (1 mile radius from the derailment and a 250-foot buffer from the center line of the contaminated surface waters from unnamed ditch to the Ohio River).

h. Remove, secure, stage, consolidate, package, transport, and dispose of identified hazardous substances, pollutants, and contaminants at EPA-approved disposal facilities in accordance with the EPA's Off-Site Rule 40 C.F.R. § 300.440; and

i. Taking any response action to address all releases or threatened releases which EPA determines may pose an imminent and substantial endangerment to the public health or the environment.

37. For any regulation or guidance referenced in the Order, the reference will be read to include any subsequent modification, amendment, or replacement of such regulation or guidance. Such modifications, amendments, or replacements apply to the Work only after Respondent receives notification from EPA of the modification, amendment, or replacement.

38. Work Plan and Implementation

a. Within 7 days after the Effective Date, in accordance with Paragraph 39 (Submission of Deliverables), Respondent shall submit to EPA for review and approval draft work plans for performing the removal actions (collectively, the "Removal Work Plan") generally described in Paragraph 36 above. The draft Removal Work Plan shall provide a description of, and an expeditious schedule for, the Work required by this Order. The Removal Work Plan must describe all community impact mitigation activities to be performed to: (a) reduce impacts (e.g., air emissions, dust, odor, traffic, noise, temporary relocation, negative economic effects) to residential areas, schools, playgrounds, healthcare facilities, or recreational public areas frequented by community members ("Community Areas") during implementation of the Removal Action; (b) conduct monitoring in Community Areas of impacts from the implementation of the Removal Action; (c) communicate validated sampling data; and (d) make adjustments during the implementation of the Removal Action in order to further reduce negative impacts to affected Community Areas. The Removal Work Plan shall contain information about impacts to Community Areas that is sufficient to assist EPA's OSCs and Community Involvement Coordinator(s) in performing the evaluations described in the Superfund Community Involvement Handbook, OLEM 9230.0-51 (Mar. 2020). The Handbook is located at <https://www.epa.gov/superfund/superfund-community-involvementtools-and-resources#handbook>.

b. EPA may approve, disapprove, require revisions to, or modify the draft Removal Work Plan in whole or in part. If EPA requires revisions, Respondent shall submit a revised draft Removal Work Plan within 3 days after receipt of EPA's notification of the required revisions. Respondent shall implement the Removal Work Plan as approved in writing by EPA in accordance with the schedule approved by EPA. Once approved, or approved with modifications, the Removal Work Plan, the schedule, and any subsequent modifications shall be incorporated into and become fully enforceable under this Order.

c. Upon approval or approval with modifications of the Removal Work Plan Respondent shall commence implementation of the Work in accordance with the schedule included therein. Respondent shall not commence or perform any Work except in conformance with the terms of this Order. Respondent shall notify EPA at least 48 hours prior to performing any Work on-Site pursuant to the EPA-approved Removal Work Plan.

d. Unless otherwise provided in this Order, any additional deliverables that require EPA approval under the Removal Work Plan shall be reviewed and approved by EPA in accordance with this Paragraph.

e. Any non-compliance with any EPA-approved plans, reports, specifications, schedules, or other deliverables shall be considered a violation of the requirements of this Order. Determinations of non-compliance shall be made by EPA. Approval of the Removal Work Plan shall not limit EPA's authority under the terms of this Order to require Respondents to conduct activities consistent with this Order to accomplish the Work outlined in this Section.

39. Submission of Deliverables

a. General Requirements for Deliverables

(1) Except as otherwise provided in this Order, Respondent shall direct all submissions required by this Order to the OSCs at Ralph Dollhopf, On-Scene Coordinator, U.S. EPA Region 5, 2565 Plymouth Road – Mail Code SEAA, Ann Arbor, Michigan, 48105 (231/301-0559), dollhopf.ralph@epa.gov and Jack Kelly, On-Scene Coordinator, U.S. EPA Region 3, 1600 John F. Kennedy Boulevard, Philadelphia, Pennsylvania, 19103-2852 (215/814-3112), kelly.jack@epa.gov. Respondent shall submit all deliverables required by this Order or any approved work plan to EPA in accordance with the schedule set forth in such plan.

(2) Respondent shall direct all submissions required to be submitted to the State of Ohio by this Order to:

Anne Vogel, Director
Ohio EPA - Director's Office
P.O. Box 1049
Columbus, Ohio 43216-1049
614-644-2782
Anne.Vogel@epa.ohio.gov

(3) Respondent shall submit all deliverables in electronic form. Technical specifications for sampling and monitoring data and spatial data are addressed in Paragraph 39.b. All other deliverables shall be submitted to EPA in the form specified by an OSC. If any deliverable includes maps, drawings, or other exhibits that are larger than 8.5 x 11 inches, Respondent shall also provide EPA with paper copies of such exhibits.

b. Technical Specifications for Deliverables

(1) Sampling and monitoring data should be submitted in standard Regional EDD format as specified by EPA Regions 5 and 3. Other delivery methods may be allowed if electronic direct submission presents a significant burden or as technology changes.

(2) Spatial data, including spatially-referenced data and geospatial data, should be submitted: (a) in the ESRI File Geodatabase format ; and (b) as unprojected geographic coordinates in decimal degree format using North American Datum 1983 (NAD83) or World Geodetic System 1984 (WGS84) as the datum. If applicable, submissions should include the collection method(s). Projected coordinates may optionally be included but must be documented. Spatial data should be accompanied by metadata, and such metadata should be compliant with the Federal Geographic Data Committee (FGDC) Content Standard for Digital Geospatial Metadata and its EPA profile, the EPA Geospatial Metadata Technical Specification. An add-on metadata editor for ESRI software, the EPA Metadata Editor (EME), complies with these FGDC and EPA metadata requirements and is available at <https://www.epa.gov/geospatial/epa-metadata-editor>.

(3) Each file must include an attribute name for each site unit or sub-unit submitted. Consult <https://www.epa.gov/geospatial/geospatial-policies-and-standards> for any further available guidance on attribute identification and naming.

(4) Spatial data submitted by Respondent does not, and is not intended to, define the boundaries of the Site.

40. Sampling and Analysis Plan. Within 7 days after the Effective Date, Respondent shall submit a Sampling and Analysis Plan to EPA for review and approval. This plan shall consist of a Field Sampling Plan (FSP) and a Quality Assurance Project Plan (QAPP) that is consistent with the plans cited in the Work to Be Performed and the NCP, including, but not limited to, “Guidance for Quality Assurance Project Plans (QA/G-5)” EPA/240/R-02/009 (December 2002), “EPA Requirements for Quality Assurance Project Plans (QA/R-5)” EPA 240/B-01/003 (March 2001, reissued May 2006), and “Uniform Federal Policy for Quality Assurance Project Plans, Parts 1-3 EPA/505/B-04/900A-900C (March 2005). Upon its approval by EPA, the Sampling and Analysis Plan shall be incorporated into and become enforceable under this Order.

41. Health and Safety Plan. Within 7 days after the Effective Date, Respondent shall submit for EPA review and comment a Health and Safety Plan that ensures the protection of on-site workers and the public during performance of on-site Work under this Order. This plan shall be prepared in accordance with “OSWER Integrated Health and Safety Program Operating Practices for OSWER Field Activities,” Pub. 9285.0-OIC (Nov. 2002), available on the NSCEP database at <https://www.epa.gov/nscep>, and “EPA’s Emergency Responder Health and Safety Manual,” OSWER Directive 9285.3-12 (July 2005 and updates), available at https://www.epaosc.org/_HealthSafetyManual/manual-index.htm. In addition, the plan shall comply with all currently applicable Occupational Safety and Health Administration (OSHA) regulations found at 29 C.F.R. Part 1910. If EPA determines that it is appropriate, the plan shall also include contingency planning. Respondent shall incorporate all changes to the plan recommended by EPA and shall implement the plan during the pendency of the removal actions.

42. Community Involvement Plan. EPA has the lead responsibility for implementing community involvement activities at the Site, including the preparation of a community involvement plan, in accordance with the NCP and EPA guidance. As requested by EPA, Respondents shall participate in community involvement activities, including participation in (a) the preparation of information regarding the Work for dissemination to the public (including compliance schedules and progress reports), with consideration given to the specific needs of the community, including translated materials and mass media and/or Internet notification and (b) public meetings that may be held or sponsored by EPA to explain activities at or relating to the Site.

43. Post-Removal Site Control. In accordance with the Removal Work Plan schedule, or as otherwise directed by EPA, Respondent shall submit a proposal for Post-Removal Site Control. Upon EPA approval, Respondent shall either conduct Post-Removal Site Control activities, or obtain a written commitment from another party for conduct of such activities, until such time as EPA determines that no further Post-Removal Site Control is necessary. Respondent shall provide EPA with documentation of all Post-Removal Site Control commitments. Respondent shall implement post-removal site control consistent with the provisions of 40 C.F.R. § 300.415(l).

44. Progress Reports. Respondent shall submit a written progress report to EPA concerning actions undertaken pursuant to this Order on a weekly basis, or as otherwise requested by EPA, from the date of receipt of EPA's approval of the Removal Work Plan until issuance of Notice of Completion of Work pursuant to Section XXVII, unless otherwise directed in writing by an OSC. These reports shall describe all significant developments during the preceding period, including the actions performed and any problems encountered, analytical data received during the reporting period, and the developments anticipated during the next reporting period, including a schedule of actions to be performed, anticipated problems, and planned resolutions of past or anticipated problems.

45. Final Report. Within 30 days after completion of all Work required by this Order, with the exception of any continuing obligations required by this Order, including, but not limited to, post-removal site controls, reimbursement of Response Costs, or record retention, Respondent shall submit for EPA review and approval a final report summarizing the actions taken to comply with this Order. EPA will review and approve the final report in accordance with Section XXVII (Notice of Completion of Work). The final report shall conform, at a minimum, with the requirements set forth in Section 300.165 of the NCP, "OSC Reports." The final report shall include a good faith estimate of total costs or a statement of actual costs incurred in complying with the Order, a listing of quantities and types of materials removed off-Site or handled on-Site, a discussion of removal and disposal options considered for those materials, a listing of the ultimate destination(s) of those materials, a presentation of the analytical results of all sampling and analyses performed, and accompanying appendices containing all relevant documentation generated during the removal actions (e.g., manifests, invoices, bills, contracts, and permits). The final report shall also include the following certification signed by a responsible corporate official of a Respondent or Respondent's Project Coordinator: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or

those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

46. Off-Site Shipments

a. Respondent may ship hazardous substances, pollutants, and contaminants from the Site to an off-Site facility only if they comply with Section 121(d)(3) of CERCLA, 42 U.S.C. § 9621(d)(3), and 40 C.F.R. § 300.440. Respondent will be deemed to be in compliance with CERCLA § 121(d)(3) and 40 C.F.R. § 300.440 regarding a shipment if Respondent obtains a prior determination from EPA that the proposed receiving facility for such shipment is acceptable under the criteria of 40 C.F.R. § 300.440(b).

b. Respondent may ship Waste Material from the Site to an out-of-state waste management facility only if, prior to any shipment, they provide written notice to the appropriate state environmental official in the receiving facility’s state and to the OSCs. This notice requirement will not apply to any off-Site shipments when the total quantity of all such shipments will not exceed ten cubic yards. The written notice must include the following information, if available: (1) the name and location of the receiving facility; (2) the type and quantity of Waste Material to be shipped; (3) the schedule for the shipment; and (4) the method of transportation. Respondent shall also notify the state environmental official referenced above and the OSCs of any major changes in the shipment plan, such as a decision to ship the Waste Material to a different out-of-state facility. Respondent shall provide the notice after the award of the contract for the removal action and before the Waste Material is shipped.

c. Respondent may ship Investigation Derived Waste (IDW) from the Site to an off-Site facility only if they comply with Section 121(d)(3) of CERCLA, 42 U.S.C. § 9621(d)(3), 40 C.F.R. § 300.440, EPA’s “Guide to Management of Investigation Derived Waste,” OSWER 9345.3-03FS (Jan. 1992). Wastes shipped off-Site to a laboratory for characterization, and RCRA hazardous wastes that meet the requirements for an exemption from RCRA under 40 C.F.R. § 261.4(e) shipped off-Site for treatability studies, are not subject to 40 C.F.R. § 300.440.

XII. QUALITY ASSURANCE, SAMPLING, AND DATA ANALYSIS

47. Respondent shall use quality assurance, quality control, and other technical activities and chain of custody procedures for all samples consistent with “EPA Requirements for Quality Assurance Project Plans (QA/R5),” EPA/240/B-01/003 (March 2001, reissued May 2006), “Guidance for Quality Assurance Project Plans (QA/G-5),” EPA/240/R-02/009 (December 2002), and “Uniform Federal Policy for Quality Assurance Project Plans,” Parts 1-3, EPA/505/B-04/900A-900C (March 2005).

48. Access to Laboratories

a. Respondent shall ensure that EPA and State personnel and their authorized representatives are allowed access at reasonable times to all laboratories utilized by Respondent

pursuant to this Order. In addition, Respondent shall ensure that such laboratories shall analyze all samples submitted by EPA pursuant to the QAPP for quality assurance, quality control, and technical activities that will satisfy the stated performance criteria as specified in the QAPP and that sampling and field activities are conducted in accordance with the Agency's "EPA QA Field Activities Procedure," CIO 2105-P-02.1 (9/23/2014) available at <https://www.epa.gov/irmpoli8/epa-qa-field-activities-procedures>. Respondent shall ensure that the laboratories they utilize for the analysis of samples taken pursuant to this Order meet the competency requirements set forth in EPA's "Policy to Assure Competency of Laboratories, Field Sampling, and Other Organizations Generating Environmental Measurement Data under Agency-Funded Acquisitions" available at <https://www.epa.gov/measurements/documents-about-measurement-competency-under-acquisition-agreements> and that the laboratories perform all analyses using EPA-accepted methods. Accepted EPA methods consist of, but are not limited to, methods that are documented in the EPA's Contract Laboratory Program (<https://www.epa.gov/clp>), SW 846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (<https://www.epa.gov/hw-sw846>), "Standard Methods for the Examination of Water and Wastewater" (<https://www.standardmethods.org/>), 40 C.F.R. Part 136, "Air Toxics - Monitoring Methods" (<https://www.epa.gov/amtic/air-toxics-ambient-monitoring#methods>)." However, upon approval by EPA, Respondent may use other appropriate analytical method(s), as long as (i) quality assurance/quality control (QA/QC) criteria are contained in the method(s) and the method(s) are included in the QAPP, (ii) the analytical method(s) are at least as stringent as the methods listed above, and (iii) the method(s) have been approved for use by a nationally recognized organization responsible for verification and publication of analytical methods, e.g., EPA, ASTM, NIOSH, OSHA, etc. Respondent shall ensure that all laboratories they use for analysis of samples taken pursuant to this Order have a documented Quality System that complies with ASQ/ANSI E4:2014 "Quality management systems for environmental information and technology programs – Requirements with guidance for use" (American Society for Quality, February 2014), and "EPA Requirements for Quality Management Plans (QA/R-2)" EPA/240/B-01/002 (March 2001, reissued May 2006), or equivalent documentation as determined by EPA. EPA may consider Environmental Response Laboratory Network (ERLN) laboratories, laboratories accredited under the National Environmental Laboratory Accreditation Program (NELAP), or laboratories that meet International Standardization Organization (ISO 17025) standards or other nationally recognized programs as meeting the Quality System requirements. Respondent shall ensure that all field methodologies utilized in collecting samples for subsequent analysis pursuant to this Order are conducted in accordance with the procedures set forth in the QAPP approved by EPA.

b. Upon request, Respondent shall provide split or duplicate samples to EPA and the States or their authorized representatives. Respondent shall notify EPA and the States not less than 5 days in advance of any sample collection activity. In addition, EPA and the States shall have the right to take any additional samples that EPA or the States deem necessary. Upon request, EPA shall provide to Respondent split or duplicate samples of any samples it takes as part of EPA's oversight of Respondent's implementation of the Work.

c. Respondent shall submit to EPA and the States, in the next monthly progress report as described in Paragraph 44 (Progress Reports) copies of the results of all sampling and/or tests or other data obtained or generated by or on behalf of Respondent with respect to the Site and/or the implementation of this Order.

XIII. PROPERTY REQUIREMENTS

49. Agreements Regarding Access and Non-Interference. Respondent shall, with respect to any Non-Respondent Owner's Affected Property, use best efforts to secure from such Non-Respondent Owner an agreement, enforceable by Respondent and EPA, providing that such Non-Respondent Owner, and Respondent shall, with respect to Respondent's Affected Property: (i) provide EPA, the applicable State, Respondent, and their representatives, contractors, and subcontractors with access at all reasonable times to such Affected Property to conduct any activity regarding the Order, including those activities listed in Paragraph 49.a (Access Requirements); and (ii) refrain from using such Affected Property in any manner that EPA determines will pose an unacceptable risk to human health or to the environment due to exposure to Waste Material, or interfere with or adversely affect the implementation, integrity, or protectiveness of the removal action. Respondent shall provide a copy of such access agreements to EPA and the applicable State.

a. **Access Requirements.** The following is a list of activities for which access is required regarding the Affected Property:

- (1) Monitoring the Work;
- (2) Verifying any data or information submitted to EPA or the State;
- (3) Conducting investigations regarding contamination at or near the Site;
- (4) Obtaining samples;
- (5) Assessing the need for, planning, implementing, or monitoring response actions;
- (6) Assessing implementation of quality assurance and quality control practices as defined in the approved quality assurance quality control plan;
- (7) Implementing the Work pursuant to the conditions set forth in Section XIX (Enforcement/Work Takeover);
- (8) Inspecting and copying records, operating logs, contracts, or other documents maintained or generated by Respondent or its agents, consistent with Section XIV (Access to Information);
- (9) Assessing Respondent's compliance with the Order;
- (10) Determining whether the Affected Property is being used in a manner that is prohibited or restricted, or that may need to be prohibited or restricted under the Order; and

(11) Implementing, monitoring, maintaining, reporting on, and enforcing any land, water, or other resource use restrictions regarding the Affected Property.

50. Best Efforts. As used in this Section, “best efforts” means the efforts that a reasonable person in the position of Respondent would use so as to achieve the goal in a timely manner, including the cost of employing professional assistance and the payment of reasonable sums of money to secure access and/or use restriction agreements, as required by this Section. If, within 15 days after it is known access is required at a particular property, Respondent is unable to accomplish what is required through “best efforts” it shall notify EPA, and include a description of the steps taken to comply with the requirements. If EPA deems it appropriate, it may assist Respondent or take independent action in obtaining such access and/or use restrictions. EPA reserves the right to seek payment from Respondent for all costs, including cost of attorneys’ time, incurred by the United States in obtaining such access or agreements to restrict land, water, or other resource use.

51. Notice to Successors-in-Title

a. Respondent shall, within 15 days after the Effective Date, submit for EPA approval a notice to be filed regarding Affected Property owned by Respondent in the appropriate land records. The notice must: (1) include a proper legal description of the Affected Property; (2) provide notice to all successors-in-title that: (i) the Affected Property is part of, or related to, the Site; (ii) EPA has selected a removal action for the Site; and (iii) EPA has ordered potentially responsible parties to implement that removal action; and (3) identify the EPA docket number and Effective Date of this Order. Respondent shall record the notice within 10 days after EPA’s approval of the notice and submit to EPA, within 10 days thereafter, a certified copy of the recorded notice.

b. Respondent shall, prior to entering into a contract to Transfer its Affected Property, or 60 days prior to Transferring its Affected Property, whichever is earlier:

(1) Notify the proposed transferee that EPA has selected a removal action regarding the Site, that EPA has ordered potentially responsible parties to implement such removal action, (identifying the EPA docket number and the Effective Date of this Order); and

(2) Notify EPA and the applicable State of the name and address of the proposed transferee and provide EPA and the applicable State with a copy of the above notice that it provided to the proposed transferee.

52. In the event of any Transfer of the Affected Property, unless EPA otherwise consents in writing, Respondent shall continue to comply with its obligations under this Order, including its obligation to secure access and ensure compliance with any land, water, or other resource use restrictions regarding the Affected Property.

53. Notwithstanding any provision of this Order, EPA and the States retain all of their access authorities and rights, as well as all of their rights to require land, water, or other resource

use restrictions, including enforcement authorities related thereto under CERCLA, RCRA, and any other applicable statute or regulations.

XIV. ACCESS TO INFORMATION

54. Respondent shall provide to EPA and the States, upon request, copies of all records, reports, documents, and other information (including records, reports, documents, and other information in electronic form) (hereinafter referred to as “Records”) within Respondent’s possession or control or that of its contractors or agents relating to activities at the Site or to the implementation of this Order, including, but not limited to, sampling, analysis, chain of custody records, manifests, trucking logs, receipts, reports, sample traffic routing, correspondence, or other documents or information regarding the Work. Respondent shall also make available to EPA and the States, for purposes of investigation, information gathering, or testimony, their employees, agents, or representatives with knowledge of relevant facts concerning the performance of the Work.

55. **Privileged and Protected Claims**

a. Respondent may assert that all or part of a Record requested by EPA or the States is privileged or protected as provided under federal law, in lieu of providing the Record, provided Respondent complies with Paragraph 55.b, and except as provided in Paragraph 55.c.

b. If Respondent asserts a claim of privilege or protection, it shall provide EPA and the States with the following information regarding such Record: its title; its date; the name, title, affiliation (e.g., company or firm), and address of the author, of each addressee, and of each recipient; a description of the Record’s contents; and the privilege or protection asserted. If a claim of privilege or protection applies only to a portion of a Record, Respondent shall provide the Record to EPA and the States in redacted form to mask the privileged or protected portion only. Respondent shall retain all Records that it claims to be privileged or protected until EPA and the States or a court determines that such Record is privileged or protected.

c. Respondent may make no claim of privilege or protection regarding: (1) any data regarding the Site, including, but not limited to, all sampling, analytical, monitoring, hydrogeologic, scientific, chemical, radiological, or engineering data, or the portion of any other Record that evidences conditions at or around the Site; or (2) the portion of any Record that Respondent is required to create or generate pursuant to this Order.

56. **Business Confidential Claims.** Respondent may assert that all or part of a Record provided to EPA and the States under this Section or Section XV (Retention of Records) is business confidential to the extent permitted by and in accordance with Section 104(e)(7) of CERCLA, 42 U.S.C. § 9604(e)(7), and 40 C.F.R. § 2.203(b). Respondent shall segregate and clearly identify all Records or parts thereof submitted under this UAO for which Respondent asserts business confidentiality claims. Records that Respondent claims to be confidential business information will be afforded the protection specified in 40 C.F.R. Part 2, Subpart B. If no claim of confidentiality accompanies Records when they are submitted to EPA and the States, or if EPA has notified Respondent that the Records are not confidential under the standards of

Section 104(e)(7) of CERCLA or 40 C.F.R. Part 2, Subpart B, the public may be given access to such Records without further notice to Respondent.

57. Notwithstanding any provision of this Order, EPA and the States retain all of their information gathering and inspection authorities and rights, including enforcement actions related thereto, under CERCLA, RCRA, and any other applicable statutes or regulations.

XV. RETENTION OF RECORDS

58. During the pendency of this Order and for a minimum of 10 years after Respondent's receipt of EPA's notification pursuant to Section XXVII (Notice of Completion of Work), Respondent shall preserve and retain all non-identical copies of Records (including Records in electronic form) now in its possession or control, or that come into its possession or control, that relate in any manner to its liability under CERCLA with respect to the Site, provided, however, that Respondent, as potentially liable as an owner or operator of the Site or part of the Site, must retain, in addition, all Records that relate to the liability of any other person under CERCLA with respect to the Site. Respondent must also retain, and instruct its contractors and agents to preserve, for the same period of time specified above, all non-identical copies of the last draft or final version of any Records (including Records in electronic form) now in its possession or control or that come into its possession or control that relate in any manner to the performance of the Work, provided, however, that Respondent (and its contractors and agents) must retain, in addition, copies of all data generated during performance of the Work and not contained in the aforementioned Records required to be retained. Each of the above record retention requirements shall apply regardless of any corporate retention policy to the contrary.

59. At the conclusion of this document retention period, Respondent shall notify EPA and the States at least 90 days prior to the destruction of any such Records, and, upon request by EPA or the States, and except as provided in Paragraph 55, Respondent shall deliver any such Records to EPA or the States.

60. Within 5 days after the Effective Date, Respondent shall submit a written certification to the OSCs that, to the best of its knowledge and belief, after thorough inquiry, it has not altered, mutilated, discarded, destroyed, or otherwise disposed of any Records (other than identical copies) relating to its potential liability regarding the Site since notification of its potential liability by the United States or the States, and that it has fully complied with any and all EPA or State requests for information regarding the Site pursuant to Sections 104(e) and 122(e) of CERCLA, 42 U.S.C. §§ 9604(e) and 9622(e), and Section 3007 of RCRA, 42 U.S.C. § 6927, or state law. If Respondent is unable to so certify, Respondent shall submit a modified certification that explains in detail why it is unable to certify in full with regard to all Records.

XVI. COMPLIANCE WITH OTHER LAWS

61. Nothing in this Order limits Respondent's obligations to comply with the requirements of all applicable state and federal laws and regulations, except as provided in Section 121(e) of CERCLA, 42 U.S.C. § 9621(e), and 40 C.F.R. §§ 300.400(e) and 300.415(j). In accordance with 40 C.F.R. § 300.415(j), all on-site actions required pursuant to this Order shall, to the extent practicable, as determined by EPA, considering the exigencies of the situation, attain

applicable or relevant and appropriate requirements (ARARs) under federal environmental or state environmental or facility siting laws.

62. No local, state, or federal permit shall be required for any portion of the Work conducted entirely on-site (i.e., within the areal extent of contamination or in very close proximity to the contamination and necessary for implementation of the Work), including studies, if the action is selected and carried out in compliance with Section 121 of CERCLA, 42 U.S.C. § 9621. Where any portion of the Work that is not on-site requires a federal or state permit or approval, Respondent shall submit timely and complete applications and take all other actions necessary to obtain and to comply with all such permits or approvals. This Order is not, and shall not be construed to be, a permit issued pursuant to any federal or state statute or regulation.

XVII. EMERGENCY RESPONSE AND NOTIFICATION OF RELEASES

63. **Emergency Response.** If any event occurs during performance of the Work that causes or threatens to cause a release of any Waste Material on, at, or from the Site that either constitutes an emergency situation or that may present an immediate threat to public health or welfare or the environment, Respondent shall immediately take all appropriate action to prevent, abate, or minimize such release or threat of release. Respondent shall take these actions in accordance with all applicable provisions of this Order, including, but not limited to, the Health and Safety Plan. Respondent shall also immediately notify the OSCs or, in the event of his/her unavailability, the Regional Duty Officer for Region 5 (at 312/353-2318) and Region 3 (at 215/814-3255) of the incident or Site conditions. In the event that Respondent fails to take appropriate response action as required by this Paragraph, and EPA takes such action instead, EPA reserves the right to pursue cost recovery.

64. **Release Reporting.** Upon the occurrence of any event during performance of the Work that Respondent is required to report pursuant to Section 103 of CERCLA, 42 U.S.C. § 9603, or Section 304 of the Emergency Planning and Community Right-To-Know Act (EPCRA), 42 U.S.C. § 11004, Respondent shall immediately orally notify an OSC, or, in the event of his/her unavailability, the Regional Duty Officer at Region 5 (at 312/353-2318) and Region 3 (at 215/814-3255) and the National Response Center at (800) 424-8802. This reporting requirement is in addition to, and not in lieu of, the reporting required by CERCLA §§ 103 and 111(g), or EPCRA § 304.

65. For any event covered under this Section, Respondent shall submit a written report to EPA within 7 days after the onset of such event, setting forth the action or event that occurred and the measures taken, and to be taken, to mitigate any release or threat of release or endangerment caused or threatened by the release and to prevent the reoccurrence of such a release or threat of release.

XVIII. PAYMENT OF RESPONSE COSTS

66. Upon EPA's written demand, Respondent shall pay EPA all Response Costs incurred or to be incurred in connection with this Order. On a periodic basis, EPA Regions 3 and 5 will send Respondent bills requiring payment of all Response Costs incurred by the United

States with respect to this Order that includes an Itemized Cost Summary, which includes direct and indirect costs incurred by EPA, its contractors, and the Department of Justice.

Respondent shall make all payments within 30 days after receipt of each written demand requiring payment.

Fedwire EFT: Federal Reserve Bank of New York
ABA: 021030004
Account: 68010727
SWIFT address: FRNYUS33
Field Tag 4200: D 68010727 Environmental Protection Agency

67. At the time of payment, Respondent shall send notice that payment has been made to dollhopf.ralph@epa.gov, kelly.jack@epa.gov, garypie.catherine@epa.gov, and dixit.naeha@epa.gov, and to the EPA Cincinnati Finance Office by email at cinwd_acctsreceivable@epa.gov, or by mail to:

EPA Cincinnati Finance Office
26 W. Martin Luther King Drive
Cincinnati, Ohio 45268

Such notice shall reference Site/Spill ID Number C5XR and EPA docket number for this action.

68. In the event that the payments for Response Costs are not made within 30 days after Respondent's receipt of a written demand requiring payment, Respondent shall pay Interest on the unpaid balance. The Interest on Response Costs shall begin to accrue on the date of the written demand and shall continue to accrue until the date of payment. Payments of Interest made under this Paragraph shall be in addition to such other remedies or sanctions available to the United States by virtue of Respondent's failure to make timely payments under this Section. Respondent shall make all payments required by this Paragraph in the manner described in Paragraphs 66 and 67.

XIX. ENFORCEMENT/WORK TAKEOVER

69. Any willful violation, or failure or refusal to comply with any provision of this Order may subject Respondent to civil penalties up to the maximum amount authorized by law. CERCLA § 106(b)(1), 42 U.S.C. § 9606(b)(1). As of the date of issuance of this Order, the statutory maximum amount is \$67,544 per violation per day. This maximum amount may increase in the future, as EPA amends its civil penalty amounts through rulemaking pursuant to the 1990 Federal Civil Penalties Inflation Adjustment Act (Public Law 101-410, codified at 28 U.S.C. § 2461), as amended by the 2015 Federal Civil Penalties Inflation Adjustment Act Improvement Act (Section 701 of Public Law 114-74). The maximum amount to be applied to this violation will be set as the most recent maximum amount set forth in 40 C.F.R. section 19.4 as of the date that the U.S. District Court assesses any such penalty. In the event of such willful violation, or failure or refusal to comply, EPA may unilaterally carry out the actions required by this Order, pursuant to Section 104 of CERCLA, 42 U.S.C. § 9604, and/or may seek judicial enforcement of this Order pursuant to Section 106 of CERCLA, 42 U.S.C. § 9606. In addition, nothing in this

Order shall limit EPA's authority under Section XXIII (Financial Assurance). Respondent may also be subject to punitive damages in an amount up to three times the amount of any cost incurred by the United States as a result of such failure to comply, as provided in Section 107(c)(3) of CERCLA, 42 U.S.C. § 9607(c)(3).

XX. RESERVATIONS OF RIGHTS BY EPA

70. Nothing in this Order shall limit the power and authority of EPA or the United States to take, direct, or order all actions necessary to protect public health, welfare, or the environment or to prevent, abate, or minimize an actual or threatened release of hazardous substances, pollutants, or contaminants, or hazardous or solid waste on, at, or from the Site. Further, nothing in this Order shall prevent EPA from seeking legal or equitable relief to enforce the terms of this Order, from taking other legal or equitable action as it deems appropriate and necessary, or from requiring Respondent in the future to perform additional activities pursuant to CERCLA or any other applicable law. EPA reserves the right to bring an action against Respondent under Section 107 of CERCLA, 42 U.S.C. § 9607, for recovery of any response costs incurred by the United States related to this Order or the Site and not paid by Respondent.

XXI. OTHER CLAIMS

71. By issuance of this Order, the United States and EPA assume no liability for injuries or damages to persons or property resulting from any acts or omissions of Respondent. The United States or EPA shall not be deemed a party to any contract entered into by Respondent or its directors, officers, employees, agents, successors, representatives, assigns, contractors, or consultants in carrying out actions pursuant to this Order.

72. Nothing in this Order constitutes a satisfaction of or release from any claim or cause of action against Respondent or any person not a party to this Order, for any liability such person may have under CERCLA, other statutes, or common law, including but not limited to any claims of the United States under Sections 106 and 107 of CERCLA, 42 U.S.C. §§ 9606 and 9607.

73. Nothing in this Order shall be deemed to constitute preauthorization of a claim within the meaning of Section 111(a)(2) of CERCLA, 42 U.S.C. § 9611(a)(2), or 40 C.F.R. § 300.700(d).

74. No action or decision by EPA pursuant to this Order shall give rise to any right to judicial review, except as set forth in Section 113(h) of CERCLA, 42 U.S.C. § 9613(h).

XXII. INSURANCE

75. No later than 5 days before commencing any on-site Work, Respondent shall secure, and shall maintain for the duration of this Order, commercial general liability with limits of liability of \$1 million per occurrence, automobile liability insurance with limits of liability of \$1 million per accident, and umbrella liability insurance with limits of liability of \$5 million in excess of the required commercial general liability and automobile liability limits, naming EPA as an additional insured with respect to all liability arising out of the activities performed by or on behalf of Respondent pursuant to this Order. Within the same time period, Respondent shall

provide EPA with certificates of such insurance and a copy of each insurance policy. Respondent shall submit such certificates and copies of policies each year on the anniversary of the Effective Date. In addition, for the duration of the Order, Respondent shall satisfy, or shall ensure that its contractors or subcontractors satisfy, all applicable laws and regulations regarding the provision of worker's compensation insurance for all persons performing Work on behalf of Respondent in furtherance of this Order. If Respondent demonstrates by evidence satisfactory to EPA that any contractor or subcontractor maintains insurance equivalent to that described above, or insurance covering some or all of the same risks but in a lesser amount, then, with respect to that contractor or subcontractor, Respondent need provide only that portion of the insurance described above which is not maintained by such contractor or subcontractor. Respondent shall ensure that all submittals to EPA under this Paragraph identify the East Palestine Train Derailment Site, East Palestine, Ohio and the EPA docket number for this action.

XXIII. FINANCIAL ASSURANCE

76. In order to ensure completion of the Work, Respondent shall secure financial assurance, within 30 days of receiving an initial estimated cost of work ("Estimated Cost of the Work") from EPA, in an amount equal to the Estimated Cost of the Work. The financial assurance must be one or more of the mechanisms listed below, in a form substantially identical to the relevant sample documents available from EPA or under the "Financial Assurance - Orders" category on the Cleanup Enforcement Model Language and Sample Documents Database at <https://cfpub.epa.gov/compliance/models/>, and satisfactory to EPA. Respondent may use multiple mechanisms if they are limited to trust funds, surety bonds guaranteeing payment, and/or letters of credit.

a. A trust fund: (1) established to ensure that funds will be available as and when needed for performance of the Work; (2) administered by a trustee that has the authority to act as a trustee and whose trust operations are regulated and examined by a federal or state agency; and (3) governed by an agreement that requires the trustee to make payments from the fund only when the EPA Region 5 Superfund & Emergency Response Division Director advises the trustee in writing that: (i) payments are necessary to fulfill the Respondent's obligations under the Order; or (ii) funds held in trust are in excess of the funds that are necessary to complete the performance of Work in accordance with this Order;

b. A surety bond, issued by a surety company among those listed as acceptable sureties on federal bonds as set forth in Circular 570 of the U.S. Department of the Treasury, guaranteeing payment or performance in accordance with Paragraph 82 (Access to Financial Assurance);

c. An irrevocable letter of credit, issued by an entity that has the authority to issue letters of credit and whose letter-of-credit operations are regulated and examined by a federal or state agency, guaranteeing payment in accordance with Paragraph 82 (Access to Financial Assurance);

d. A demonstration by a Respondent that it meets the relevant financial test criteria of Paragraph 79; or

e. A guarantee to fund or perform the Work executed by a company (1) that is a direct or indirect parent company of a Respondent or has a “substantial business relationship” (as defined in 40 C.F.R. § 264.141(h)) with a Respondent; and (2) can demonstrate to EPA’s satisfaction that it meets the financial test criteria of Paragraph 79.

77. Standby Trust. If Respondent seeks to establish financial assurance by using a surety bond, a letter of credit, or a corporate guarantee, Respondent shall at the same time establish and thereafter maintain a standby trust fund, which must meet the requirements specified in Paragraph 76.a, and into which payments from the other financial assurance mechanism can be deposited if the financial assurance provider is directed to do so by EPA pursuant to Paragraph 82 (Access to Financial Assurance). An originally signed duplicate of the standby trust agreement must be submitted, with the other financial mechanism, to EPA in accordance with Paragraph 78. Until the standby trust fund is funded pursuant to Paragraph 82 (Access to Financial Assurance), neither payments into the standby trust fund nor annual valuations are required.

78. Within 30 days after receiving the Estimated Cost of the Work from EPA, Respondent shall submit to EPA proposed financial assurance mechanisms in draft form in accordance with Paragraph 76 for EPA’s review. Within 30 days after EPA’s approval of the form and substance of Respondent’s financial assurance, Respondent shall secure all executed and/or otherwise finalized mechanisms or other documents consistent with the EPA-approved form of financial assurance and shall submit such mechanisms and documents to the EPA regional attorneys: garypie.catherine@epa.gov and dixit.naeha@epa.gov.

79. If Respondent seeks to provide financial assurance by means of a demonstration or guarantee under Paragraph 76.d or 76.e, then Respondent must within 30 days:

a. Demonstrate that:

(1) the Respondent or guarantor has:

- i. Two of the following three ratios: a ratio of total liabilities to net worth less than 2.0; a ratio of the sum of net income plus depreciation, depletion, and amortization to total liabilities greater than 0.1; and a ratio of current assets to current liabilities greater than 1.5; and
- ii. Net working capital and tangible net worth each at least six times the sum of the Estimated Cost of the Work and the amounts, if any, of other federal, state, or tribal environmental obligations financially assured through the use of a financial test or guarantee; and
- iii. Tangible net worth of at least \$10 million; and
- iv. Assets located in the United States amounting to at least 90 percent of total assets or at least six times the sum of the Estimated Cost of the Work and the amounts, if any, of other federal, state, or tribal environmental obligations

financially assured through the use of a financial test or guarantee; or

- (2) The Respondent or guarantor has:
- i. A current rating for its senior unsecured debt of AAA, AA, A, or BBB as issued by Standard and Poor's or Aaa, Aa, A or Baa as issued by Moody's; and
 - ii. Tangible net worth at least six times the sum of the Estimated Cost of the Work and the amounts, if any, of other federal, state, or tribal environmental obligations financially assured through the use of a financial test or guarantee; and
 - iii. Tangible net worth of at least \$10 million; and
 - iv. Assets located in the United States amounting to at least 90 percent of total assets or at least six times the sum of the Estimated Cost of the Work and the amounts, if any, of other federal, state, or tribal environmental obligations financially assured through the use of a financial test or guarantee; and

b. Submit to EPA for the Respondent or guarantor: (1) a copy of an independent certified public accountant's report of the entity's financial statements for the latest completed fiscal year, which must not express an adverse opinion or disclaimer of opinion; and (2) a letter from its chief financial officer and a report from an independent certified public accountant substantially identical to the sample letter and reports available from EPA or under the "Financial Assurance – Orders" subject list category on the Cleanup Enforcement Model Language and Sample Documents Database at <https://cfpub.epa.gov/compliance/models/>.

80. If Respondent provides financial assurance by means of a demonstration or guarantee under Paragraph 76.d or 76.e, Respondent must also:

- a. Annually resubmit the documents described in Paragraph 79.b within 90 days after the close of the Respondent's or guarantor's fiscal year;
- b. Notify EPA within 30 days after the Respondent or guarantor determines that it no longer satisfies the relevant financial test criteria and requirements set forth in this Section; and
- c. Provide to EPA, within 30 days of EPA's request, reports of the financial condition of the Respondent or guarantor in addition to those specified in Paragraph 79.b; EPA may make such a request at any time based on a belief that the Respondent or guarantor may no longer meet the financial test requirements of this Section.

81. Respondent shall diligently monitor the adequacy of the financial assurance. If Respondent becomes aware of any information indicating that the financial assurance provided

under this Section is inadequate or otherwise no longer satisfies the requirements of this Section, Respondent shall notify EPA of such information within 30 days. If EPA determines that the financial assurance provided under this Section is inadequate or otherwise no longer satisfies the requirements of this Section, EPA will notify the Respondent of such determination. Respondent shall, within 30 days after notifying EPA or receiving notice from EPA under this Paragraph, secure and submit to EPA for approval a proposal for a revised or alternative financial assurance mechanism that satisfies the requirements of this Section. Respondent shall follow the procedures of Paragraph 83 in seeking approval of, and submitting documentation for, the revised or alternative financial assurance mechanism. Respondent's inability to secure financial assurance in accordance with this Section does not excuse performance of any other obligation under this Order.

82. Access to Financial Assurance

a. If EPA determines that Respondent (1) has ceased implementation of any portion of the Work, (2) is seriously or repeatedly deficient or late in its performance of the Work, or (3) is implementing the Work in a manner that may cause an endangerment to human health or the environment, EPA may issue a written notice ("Performance Failure Notice") to both Respondent and the financial assurance provider regarding the Respondent's failure to perform. Any Performance Failure Notice issued by EPA will specify the grounds upon which such notice was issued and will provide Respondent a period of 10 days within which to remedy the circumstances giving rise to EPA's issuance of such notice. If, after expiration of the 10-day period specified in this Paragraph, Respondent has not remedied to EPA's satisfaction the circumstances giving rise to EPA's issuance of the relevant Performance Failure Notice, then, in accordance with any applicable financial assurance mechanism, EPA may at any time thereafter direct the financial assurance provider to immediately: (i) deposit any funds assured pursuant to this Section into the standby trust fund; or (ii) arrange for performance of the Work in accordance with this Order.

b. If EPA is notified by the provider of a financial assurance mechanism that it intends to cancel the mechanism, and the Respondent fails to provide an alternative financial assurance mechanism in accordance with this Section at least 30 days prior to the cancellation date, EPA may, prior to cancellation, direct the financial assurance provider to deposit any funds guaranteed under such mechanism into the standby trust fund for use consistent with this Section.

83. Modification of Amount, Form, or Terms of Financial Assurance. Respondent may submit, on any anniversary of the Effective Date or following Respondent's request for, and EPA's approval of, another date, a request to reduce the amount, or change the form or terms, of the financial assurance mechanism. Any such request must be submitted to the EPA individual(s) referenced in Paragraph 78, and must include an estimate of the cost of the remaining Work, an explanation of the bases for the cost calculation, a description of the proposed changes, if any, to the form or terms of the financial assurance, and any newly proposed financial assurance documentation in accordance with the requirements of Paragraphs 76 and 77 (Standby Trust). EPA will notify Respondent of its decision to approve or disapprove a requested reduction or change. Respondent may reduce the amount or change the form or terms of the financial assurance mechanism only in accordance with EPA's approval. Within 30 days after receipt of

EPA's approval of the requested modifications pursuant to this Paragraph, Respondent shall submit to the EPA individual(s) referenced in Paragraph 78 all executed and/or otherwise finalized documentation relating to the amended, reduced, or alternative financial assurance mechanism. Upon EPA's approval, the Estimated Cost of the Work shall be deemed to be the estimate of the cost of the remaining Work in the approved proposal.

84. Release, Cancellation, or Discontinuation of Financial Assurance. Respondent may release, cancel, or discontinue any financial assurance provided under this Section only: (a) after receipt of documentation issued by EPA certifying completion of the Work; or (b) in accordance with EPA's written approval of such release, cancellation, or discontinuation.

XXIV. MODIFICATION

85. An OSC may make modifications to any plan or schedule in writing or by oral direction. Any oral modification will be memorialized in writing by EPA within 5 days, but shall have as its effective date the date of the OSC's oral direction. Any other requirements of this Order may be modified in writing by signature of the Division Directors (or their designees) of EPA Regions 3 and 5.

86. If Respondent seeks permission to deviate from any approved Work Plan or schedule, Respondent's Project Coordinator shall submit a written request to EPA for approval outlining the proposed modification and its basis. Respondent may not proceed with the requested deviation until receiving approval from the OSC pursuant to Paragraph 85.

87. No informal advice, guidance, suggestion, or comment by the OSC or other EPA representatives regarding reports, plans, specifications, schedules, or any other writing submitted by Respondent shall relieve Respondent of its obligation to obtain any formal approval required by this Order, or to comply with all requirements of this Order, unless it is formally modified.

XXV. DELAY IN PERFORMANCE

88. Respondent shall notify EPA of any delay or anticipated delay in performing any requirement of this Order. Such notification shall be made by telephone and email to the OSC within 48 hours after Respondent first knew or should have known that a delay might occur. Respondent shall adopt all reasonable measures to avoid or minimize any such delay. Within 7 days after notifying EPA by telephone and email, Respondent shall provide to EPA written notification fully describing the nature of the delay, the anticipated duration of the delay, any justification for the delay, all actions taken or to be taken to prevent or minimize the delay or the effect of the delay, a schedule for implementation of any measures to be taken to mitigate the effect of the delay, and any reason why Respondent should not be held strictly accountable for failing to comply with any relevant requirements of this Order. Increased costs or expenses associated with implementation of the activities called for in this Order is not a justification for any delay in performance.

89. Any delay in performance of this Order that, in EPA's judgment, is not properly justified by Respondent under the terms of Paragraph 88 shall be considered a violation of this Order. Any delay in performance of this Order shall not affect Respondent's obligations to fully perform all obligations under the terms and conditions of this Order.

XXVI. ADDITIONAL REMOVAL ACTIONS

90. Unless otherwise stated by EPA, within 30 days of receipt of notice from EPA that additional removal actions are necessary to protect public health, welfare, or the environment, Respondent shall submit for approval by EPA a Work Plan for the additional removal actions. The Work Plan shall conform to the applicable requirements of Section XI (Work to Be Performed) of this Order. Upon EPA's approval of the Work Plan pursuant to Section XI, Respondent shall implement the Work Plan for additional removal actions in accordance with the provisions and schedule contained therein. This Section does not alter or diminish the OSC's authority to make oral modifications to any plan or schedule pursuant to Section XXIV (Modification).

XXVII. NOTICE OF COMPLETION OF WORK

91. When EPA determines, after EPA's review of the final report, that all Work has been fully performed in accordance with this Order, with the exception of any continuing obligations required by this Order, including, but not limited to, post-removal site controls, land, water, or other resource use restrictions, reimbursement of Response Costs, and Record Retention, EPA will provide written notice to Respondent. If EPA determines that any Work has not been completed in accordance with this Order, EPA will notify Respondent, provide a list of the deficiencies, and require that Respondent modify the Work Plan, if appropriate, in order to correct such deficiencies within 30 days after receipt of the EPA notice. The modified Work Plan shall include a schedule for correcting such deficiencies. Within 10 days after receipt of written approval of the modified Work Plan, Respondent shall implement the modified and approved Work Plan and shall submit a modified Final Report in accordance with the EPA notice. Failure by Respondent to implement the approved modified Work Plan shall be a violation of this Order.

XXVIII. ADMINISTRATIVE RECORD

92. EPA will establish an administrative record which contains the documents that form the basis for the issuance of this Order. No later than 60 days of the Effective Date of this Order, and it shall be made available for review on EPA's website (www.epa.gov) and by appointment on weekdays between the hours of 9 am and 5 pm at the EPA offices located at 77 West Jackson Blvd., Chicago, Illinois. To review the administrative record, please contact Todd Quesada, U.S. EPA Region 5 Superfund and Emergency Management Division Records Officer at 312-886-4465 to make an appointment.

XXIX. SEVERABILITY

93. If a court issues an order that invalidates any provision of this Order or finds that Respondent has sufficient cause not to comply with one or more provisions of this Order, Respondent shall remain bound to comply with all provisions of this Order not invalidated or determined to be subject to a sufficient cause defense by the court's order.

It is so ORDERED.

DOUGLAS
BY: BALLOTTI Digitally signed by
DOUGLAS BALLOTTI
Date: 2023.02.21
09:11:01 -06'00'

[digitally signed and dated]
Douglas Ballotti
Superfund & Emergency Response Division, Region 5
U.S. Environmental Protection Agency

PAUL
BY: LEONARD Digitally signed by PAUL
LEONARD
Date: 2023.02.21
11:11:15 -05'00'

[digitally signed and dated]
Paul Leonard
Superfund & Emergency Response Division, Region 3
U.S. Environmental Protection Agency

APPENDIX A - List of the Contents of the Rail Cars Which Derailed

LINE #	CAR ID	LOAD/MITY	CAR TYPE	COMMODITY	TANK CAR SPEC	UN ID	HAZ CLASS	Status of Car
23	ARSX 4145	LOADED	HOPPER	POLYPROPYLENE				Not in derailment pile
24	BRKX 66738	LOADED	HOPPER	POLYPROPYLENE				Not in derailment pile
25	GPLX 75465	LOADED	HOPPER	POLYETHYLENE				loading destroyed by fire
26	ECUX 860375	LOADED	HOPPER	POLYETHYLENE				loading destroyed by fire
27	UTLX 684543	EMPTY	TANK CAR	residue lube oil	DOT 117J100W			scrap pending C&P
28	TILX 402025	LOADED	TANK CAR	VINYL CHLORIDE, STABILIZED	DOT 105J300W	UN1086	2.1 (FLAMMABLE GAS)	car did not leak/cars vent product through the PRD and ignited/vent and burn performed
29	OCPX 80235	LOADED	TANK CAR	VINYL CHLORIDE, STABILIZED	DOT 105J300W	UN1086	2.1 (FLAMMABLE GAS)	car did not leak/cars vent product through the PRD and ignited/vent and burn performed
30	OCPX 80179	LOADED	TANK CAR	VINYL CHLORIDE, STABILIZED	DOT 105J300W	UN1086	2.1 (FLAMMABLE GAS)	car did not leak/cars vent product through the PRD and ignited/vent and burn performed
31	GATX 95098	LOADED	TANK CAR	VINYL CHLORIDE, STABILIZED	DOT 105J300W	UN1086	2.1 (FLAMMABLE GAS)	vent product through the PRD and ignited/vent and burn
32	RACX 51629	LOADED	TANK CAR	DIPROPYLENE GLYCOL	DOT 111A100W1			fire impingement/no signs of tank breach
33	LYBX 5191	LOADED	TANK CAR	PROPYLENE GLYCOL	DOT 117J100W			flame impingement, no tank breach found
34	RACX 51435	LOADED	TANK CAR	PROPYLENE GLYCOL	DOT 111A100W1			tank breached/lost most of load
35	UTLX 671772	LOADED	TANK CAR	DIETHYLENE GLYCOL	DOT 111A100W1			had small leak from BOV, unknown amount of product in car
36	SHPX 211226	LOADED	TANK CAR	COMBUSTIBLE LIQ., NOS (ETHYLENE GLYCOL MONOBUTYL ETHER)	DOT 111S100W1	NA1993	COMBUSTIBLE LIQUID	unknown status
37	TILX 331319	LOADED	HOPPER	SEMOLINA				in pile, destroyed by fire
38	DOWX 73168	LOADED	TANK CAR	COMBUSTIBLE LIQ., NOS (ETHYLHEXYL ACRYLATE)	DOT 111S100W1	NA1993	COMBUSTIBLE LIQUID	Car breached on head end/amount of product still in car pending
39	ROIX 57036	LOADED	HOPPER	POLYVINYL				burned
40	NCUX 40057	LOADED	HOPPER	POLYVINYL				actively burning
41	UTLX 100055	LOADED	TANK CAR	PETROLEUM LUBE OIL	DOT 111A100W1			double comp car/both breached/entire load lost
42	XOMX 110664	LOADED	TANK CAR	PETROLEUM LUBE OIL	211A100W1			tank breached/lost most of load
43	UTLX 684798	LOADED	TANK CAR	PETROLEUM LUBE OIL	DOT 117J100W			flame impinged, may have had a small leak/will be determined when car is off loaded
44	UTLX 671310	LOADED	TANK CAR	PETROLEUM LUBE OIL	DOT 111A100W1			flame impinged, small leak from top fittings, unknown amount left in tank
45	CERX 30072	LOADED	TANK CAR	POLYPROPYL GLYCOL	DOT 111A100W1			flame impinged, tank breached/ most of load lost
46	SHPX 211106	LOADED	TANK CAR	PROPYLENE GLYCOL	DOT 111S100W1			flame impinged, no signs of breach
47	NATX 231335	LOADED	TANK CAR	DIETHYLENE GLYCOL	DOT 111A100W1			flame impinged, tank breached/ load lost
48	UTLX 671913	LOADED	TANK CAR	DIETHYLENE GLYCOL	DOT 111A100W1			flame impinged, lost unknown amount at this time from damaged BOV
49	NATX 35844	LOADED	TANK CAR	ISOBUTYLENE	DOT 105J300W	UN1055	2.1 (FLAMMABLE GAS)	some flame impingement/no signs of breach
50	UTLX 205907	LOADED	TANK CAR	BUTYL ACRYLATES, STABILIZED	DOT 111A100W1	UN 2348	3 (FLAMMABLE LIQUID)	Head breach/lost entire load (spill& fire)
51	UTLX 661296	LOADED	TANK CAR	PETRO OIL, NEC	DOT 111A100W1			flame impinged, small leak from VRV stopped, car still loaded

52	COCX 287059	LOADED	TANK CAR	ADDITIVES, FUEL	DOT 111A100W1			flame impinged, no sign of breach
53	ROIX 59396	LOADED	HOPPER	POLYVINYL				involved in fire
54	ROIX 57782	LOADED	HOPPER	POLYVINYL				involved in fire
55	OCPX 80370	LOADED	TANK CAR	VINYL CHLORIDE, STABILIZED	DOT 105J300W	UN 1086	2.1 (FLAMMABLE GAS)	car did not leak/cars vent product through the PRD and ignited/vent and burn performed
56	TBOX 640019	LOADED	BOX CAR	BALLS,CTN,MEDCL				burning or has burned
57	BKTY 152621	LOADED	BOX CAR	SHEET STEEL				burning or has burned
58	LINX 7278	LOADED	BOX CAR	VEGTABLE, FROZEN				burning or has burned
59	DPRX 259013	EMPTY	TANK CAR	BENZENE	DOT 111A100W1	UN 1114	3 (FLAMMABLE LIQUID)	damaged, fire impinged/ no breach
60	DPRX 258671	EMPTY	TANK CAR	BENZENE	DOT 111A100W1	UN 1114	3 (FLAMMABLE LIQUID)	damaged, fire impinged/ no breach
61	XOMX 110236	LOADED	TANK CAR	PARAFFIN WAX	DOT 211A100W1			flame impingement/no signs of breach
62	ELTX 7458	LOADED	HOPPER	FLAKES, POWDER				burned, extinguished
63	ELTX 3421	LOADED	HOPPER	FLAKES, POWDER		b		in line, upright, impinged
64	NDYX 892049	LOADED	HOPPER	HYDRAULIC CEMENT				
65	TTGX 953815	LOADED	AUTORACK	AUTOS PASSENGER				
66	TBOX 889334	LOADED	BOX CAR	MALT LIQUORS				
67	NOKL 603412	LOADED	BOX CAR	MALT LIQUORS				
68	NS 472751	LOADED	BOX CAR	MALT LIQUORS				
69	TBOX 676291	LOADED	BOX CAR	MALT LIQUORS				
70	TBOX 670331	LOADED	BOX CAR	MALT LIQUORS				
71	TBOX 662599	LOADED	BOX CAR	MALT LIQUORS				
72	KCS 112405	LOADED	BOX CAR	MALT LIQUORS				
73	TBOX 666771	LOADED	BOX CAR	MALT LIQUORS				
74	TBOX 664264	LOADED	BOX CAR	MALT LIQUORS				

APPENDIX B - Consist (Manifest) Detailing the Volume of Materials in Each Rail Car

NORFOLK SOUTHERN RAILWAY COMPANY

>>>>> THIS TRAIN CONSIST HAS A TPOB VALUE OF 119. REFER TO TIMETABLE <<<<<
AND/OR OPERATIONS BULLETIN FOR MAXIMUM AUTHORIZED TRAIN SPEED.
WHEN MAKING PICK-UPS AND SET-OUTS, ADDITIONAL CALCULATIONS MUST BE
MADE TO DETERMINE TPOB.

>>>>> TRAIN CONSIST CONTAINS 42 CARS WITH EOCC DRAFT GEAR, OF
WHICH 04 <<<<<
ARE MULTI-LEVELS. REFERENCE TONNAGE PROFILE. ADJUST TRAIN
HANDLING ACCORDINGLY AND BE GOVERNED BY SP-1 AND SP-3.

THIS TRAIN CONTAINS THE FOLLOWING HAZARDOUS MATERIALS CARS:

*

*
*
* IN SET-OUT/PICK-
UP *
* KEY TRAIN: TRAIN _____

* LOADED POISON INHALATION HAZARD 0 _____

* LOADED OTHER HAZMAT CARS OR IM TANKS 17 _____

* EMPTY POISON INHALATION HAZARD 0 _____

*

```
#####  
#  
#          EEEEEEE   DDDDDD           #  
#          E           D   D           #  
#          EEEEEEE   D   D           #  
#          E           D   D           #  
#          EEEEEEE   DDDDDD           #  
#  
#####  
# This consist contains cars with excessive #  
# dimensions. Check for proper clearance. #  
#                                           #  
#####
```


**CARS SET

OUT**

SEQ INIT NUMBER L/E DEST/OFFJCT NXRD TON CONSIGNE S T C C TYPE TIME TRACK
LINE

ENG NS E04178 E 0000000 D127 NO WAYBILL
ENG NS E04224 L 216 0000000 D127 NO WAYBILL

EXCESSIVE DIMENSIONS.

001 OCPX 070524 L STONY PO PA NS 127 J-M MANU 2821141 C214 _____

IF BAD ORDERED NOTIFY SHIPPER

002 GATX 009166 E PAULSBOR NJ NS 50 PAULSBOR 4905752 T389 _____

ENDORSED AS HAZARDOUS MAT

* HAZARDOUS *
* MATERIALS *

1 CAR
RESIDUE: LAST CONTAINED
UN1075
LIQUEFIED PETROLEUM GAS
2.1
EMERGENCY CONTACT:
CCN 7204
18004249300
HAZMAT STCC=4905752
ERG GUIDE NO. 115

TO/CONSIGNEE:

PAULSBORO REFINING COMPANY LLC
PAULSBORO NJ PANY LLC

FROM/SHIPPER:

TARGA TRANSPORT LLC
MONT BELVIEU TX

HM1 PIT GROUP 4 RESIDUE TANK CAR
RESIDUE FLAMMABLE GAS >MAY NOT BE NEXT TO ENGINE OR OCC

CAB<

003 TTPX 081589 L WHEATLAN PA NS 111 BI-STATE 3312653 F253 _____

004 TTPX 805391 L WHEATLAN PA NS 111 BI-STATE 3312653 F453 _____

005 TTPX 080902 L WHEATLAN PA NS 111 BI-STATE 3312653 F253 _____

006 TTPX 806356 L WHEATLAN PA NS 112 BI-STATE 3312653 F453 _____

007 TTZX 864660 L RICHLAND PA NS 127 RIGIDPLY 2421184 F483 _____

UNLOAD AS PLACARDED

008 GACX 015324 L CAMP HIL PA NS 141 ADM MILL 2041110 C614 _____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

009 NS 245167 E BAY RIDG NY NYA 33 EWG GLAS 3229924 C113 _____

010 TBOX 641071 L CARLISLE PA NS 115 CROWN IM 2082110 A606 _____

PLTF

011 CSOX 023642 E CONGO WV NS 39 ERGON WE 2911415 T106 _____

012 UTCX 046842 E MARCUS H PA NS 33 BRASKEM 2821139 C214 _____

VERIFY LIGHT CAR PLACEMENT NEAR HEAD END LOCOMOTIVE CONSIST

013 TILX 623413 L READING PA RBMN 131 PACTIV L 2821139 C214 _____

014 BRKX 062205 L READING PA RBMN 131 PACTIV L 2821139 C214 _____

015 GPLX 076170 L READING PA RBMN 108 MITSUBIS 2821142 C214 _____

016 GPLX 076158 L READING PA RBMN 110 MITSUBIS 2821142 C214 _____

017 GPLX 075450 L READING PA RBMN 112 MITSUBIS 2821142 C214 _____

018 MULX 053887 L READING PA RBMN 131 PACTIV L 2821139 C214 _____

019 TILX 624042 L READING PA RBMN 131 PACTIV L 2821139 C214 _____

020 BRKX 068611 L READING PA RBMN 131 PACTIV L 2821139 C214 _____

021 ARSX 004145 L READING PA RBMN 131 PACTIV L 2821139 C214 _____

022 BRKX 066738 L READING PA RBMN 131 PACTIV L 2821139 C214 _____

023 GPLX 075465 L READING PA RBMN 105 MITSUBIS 2821142 C214 _____

024 ECUX 860375 L BRIDGEPO NJ NS 115 NOVOLEX 2821142 C214 _____

025 UTLX 684543 E BAYONNE NJ NS 48 GORDON T 2911791 T178 _____

026 TILX 402025 L PEDRICKT NJ NS 131 OXY VINY 4905792 T907 _____

* HAZARDOUS *
* MATERIALS *

1 CAR
1 CAR 178300 LBS
UN1086

VINYL CHLORIDE,
STABILIZED
2.1
RQ (VINYL CHLORIDE)
TN=(VINYL CHLORIDE,
STABILIZED)
EMERGENCY CONTACT:
CONTRACT: 16186
8004249300
HAZMAT STCC=4905792
ERG GUIDE NO. 116

TO/CONSIGNEE:
OXY VINYLs LP
PEDRICKTOWN NJ

FROM/SHIPPER:
OXY VINYLs MILLER
LA PORTE TX

DIVISION 2.1 (FLAMMABLE GAS) >NO MORE THAN 2 CAR CUTS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
IF BAD ORDERED NOTIFY SHIPPER
LOADED TANK CAR.

027 OCPX 080235 L PEDRICKT NJ NS 131 OXY VINY 4905792 T907 _____

* HAZARDOUS *
* MATERIALS *

1 CAR
1 CAR 177250 LBS
UN1086

VINYL CHLORIDE,
STABILIZED
2.1
RQ (VINYL CHLORIDE)
TN=(VINYL CHLORIDE,
STABILIZED)
EMERGENCY CONTACT:
CONTRACT: 16186
8004249300
HAZMAT STCC=4905792
ERG GUIDE NO. 116

TO/CONSIGNEE:
OXY VINYLs LP
PEDRICKTOWN NJ

FROM/SHIPPER:
OXY VINYLs MILLER
LA PORTE TX

DIVISION 2.1 (FLAMMABLE GAS) >NO MORE THAN 2 CAR CUTS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
IF BAD ORDERED NOTIFY SHIPPER
LOADED TANK CAR.

028 OCPX 080179 L PEDRICKT NJ NS 131 OXY VINY 4905792 T907 _____

* HAZARDOUS *
* MATERIALS *

1 CAR
1 CAR 177600 LBS
UN1086

VINYL CHLORIDE,
STABILIZED
2.1
RQ (VINYL CHLORIDE)

TN=(VINYL CHLORIDE,
STABILIZED)

EMERGENCY CONTACT:

CONTRACT: 16186
8004249300

HAZMAT STCC=4905792

ERG GUIDE NO. 116

TO/CONSIGNEE:

OXY VINYLs LP
PEDRICKTOWN NJ

FROM/SHIPPER:

OXY VINYLs MILLER
LA PORTE TX

DIVISION 2.1 (FLAMMABLE GAS) >NO MORE THAN 2 CAR CUTS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
IF BAD ORDERED NOTIFY SHIPPER
LOADED TANK CAR.

029 GATX 095098 L PEDRICKT NJ NS 131 OXY VINY 4905792 T907 _____

* HAZARDOUS *
* MATERIALS *

1 CAR
1 CAR 178150 LBS
UN1086
VINYL CHLORIDE,
STABILIZED
2.1
RQ (VINYL CHLORIDE)
TN=(VINYL CHLORIDE,

STABILIZED)
EMERGENCY CONTACT:
CONTRACT: 16186
8004249300
HAZMAT STCC=4905792
ERG GUIDE NO. 116

TO/CONSIGNEE:

OXY VINYLs LP
PEDRICKTOWN NJ

FROM/SHIPPER:

OXY VINYLs MILLER
LA PORTE TX

DIVISION 2.1 (FLAMMABLE GAS) >NO MORE THAN 2 CAR CUTS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
IF BAD ORDERED NOTIFY SHIPPER
LOADED TANK CAR.

030 RACX 051629 L BAYONNE NJ NS 131 LYONDELL 2818544 T106 _____

CASH PATRON-REMOVED
LOADED TANK CAR.

031 LYBX 005191 L BAYONNE NJ NS 131 LYONDELL 2818556 T178 _____

CASH PATRON-REMOVED
LOADED TANK CAR.

032 RACX 051435 L BAYONNE NJ NS 131 LYONDELL 2818556 T106 _____

CASH PATRON-REMOVED
LOADED TANK CAR.

033 UTLX 671772 L THOROUGH NJ NS 127 COIM USA 2818542 T106 _____

LOADED TANK CAR.

034 SHPX 211226 L BAYONNE NJ NS 134 EQUISTAR 4915407 T207 _____

* HAZARDOUS *
* MATERIALS *

1 CAR
1 CAR 185750 LBS
NA1993
COMBUSTIBLE LIQUID,
N.O.S.
(ETHYLENE GLYCOL
MONOBUTYL ETHER)
COMBUSTIBLE LIQUID
PG III
TN=(COMBUSTIBLE LIQUID,
N.O.S.)
EMERGENCY CONTACT:
CCN13495
8004249300
HAZMAT STCC=4915407
ERG GUIDE NO. 128

TO/CONSIGNEE:

EQUISTAR CHEMICALS LP
BAYONNE NJ

FROM/SHIPPER:

EQUISTAR CHEMICALS BPO
PASADENA TX

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
COMB LIQUID > LOADED TANK MAY NOT BE NEXT TO SHIFTABLE

LOAD.

COMB LIQUID > NO BUFFERS REQUIRED
HM1 PIT GROUP 5 LOADED TANK CAR

LOADED TANK CAR.

035 TILX 331319 L MILTON U PA NS 138 CONAGRA 2041125 C114 _____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

036 DOWX 073168 L MILL HAL PA NS 140 AVERY DE 4914108 T208 _____

ENDORSED AS HAZARDOUS MAT

* HAZARDOUS *
* MATERIALS *

1 CAR
1 CAR
NA1993
COMBUSTIBLE LIQUID,N.O.S.
(2-ETHYL HEXYL ACRYLATE)
COMBUSTIBLE LIQUID
PG III
EMERGENCY CONTACT:
UNION CARBIDE
CORPORATION
1-800-424-9300
HAZMAT STCC=4914108
ERG GUIDE NO. 128

TO/CONSIGNEE:

FROM/SHIPPER:

AVERY DENNISON CORPORATION
MILL HALL PA TION

UNION CARBIDE CORP
TAFT LA

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
COMB LIQUID > LOADED TANK MAY NOT BE NEXT TO SHIFTABLE

LOAD.

COMB LIQUID > NO BUFFERS REQUIRED
HM1 PIT GROUP 5 LOADED TANK CAR
LOADED TANK CAR.

037 ROIX 057036 L STONY PO PA NS 128 J M EAGL 2821141 C214 _____

038 NCUX 040057 L NAZARETH PA NS 131 PRIME CO 2821141 C214 _____

039 UTLX 100055 L GIBBSTOW NJ NS 115 EXXONMOB 2911415 T106 _____

LOADED TANK CAR.

040 XOMX 110664 L GIBBSTOW NJ NS 115 EXXONMOB 2911415 T108 _____

LOADED TANK CAR.

041 UTLX 684798 L GIBBSTOW NJ NS 123 EXXONMOB 2911415 T178 _____

LOADED TANK CAR.

042 UTLX 671310 L GIBBSTOW NJ NS 114 EXXONMOB 2911415 T107 _____

LOADED TANK CAR.

043 CERX 030072 L CHAPMAN PA NS 141 CARPENTE 2818555 T107 _____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
LOADED TANK CAR.

044 SHPX 211106 L BAYONNE NJ NS 131 LYONDELL 2818556 T207 _____

CASH PATRON-REMOVED
LOADED TANK CAR.

045 NATX 231335 L THOROUGH NJ NS 128 COIM USA 2818542 T106 _____

LOADED TANK CAR.

046 UTLX 671913 L THOROUGH NJ NS 127 COIM USA 2818542 T106 _____

LOADED TANK CAR.

047 NATX 035844 L WEST ELI PA NS 127 SYNTHOME 4905748 T909 _____

CASH PATRON-REMOVED

* HAZARDOUS * 1 CAR
* MATERIALS * 1 CAR 155642 LBS

UN1055

ISOBUTYLENE
2.1
NON-ODORIZED
TN=(ISOBUTYLENE)
EMERGENCY CONTACT:
CCN13495
8004249300
HAZMAT STCC=4905748
ERG GUIDE NO. 115

TO/CONSIGNEE:

SYNTHOMER JEFFERSON HILLS LLC
WEST ELIZABETH PA LLS LLC

FROM/SHIPPER:

LYONDELL CHEMICAL
PASADENA TX

DIVISION 2.1 (FLAMMABLE GAS) >NO MORE THAN 2 CAR CUTS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
LOADED TANK CAR.

048 UTLX 205907 L POTTSTOW PA NS 124 ARKEMA 4912215 T108 _____

* HAZARDOUS *
* MATERIALS *

1 CAR
1 TNK
UN2348
BUTYL ACRYLATES,
STABILIZED
3//PG III
EMERGENCY CONTACT:
ARKEMA
1-800-424-9300
HAZMAT STCC=4912215
ERG GUIDE NO. 129

TO/CONSIGNEE:

ARKEMA
POTTSTOWN PA

FROM/SHIPPER:

ARKEMA
PASADENA TX

CLASS 3 (FLAMMABLE LIQUID) >DANGEROUS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
LOADED TANK CAR.

049 UTLX 661296 L FREEDOM PA NS 125 VALVOLIN 2911791 T107 _____

LOADED TANK CAR.

050 COCX 287059 L NEWELL WV NS 125 SHELL OI 2899885 T106 _____

LOADED TANK CAR.

051 ROIX 059396 L BURLINGT NJ NS 126 RIMTEC 2821141 C214 _____

052 ROIX 057782 L STONY PO PA NS 131 J M EAGL 2821141 C214 _____

053 OCPX 080370 L PEDRICKT NJ NS 129 OXY VINY 4905792 T907 _____

1 CAR

* HAZARDOUS *
* MATERIALS *

1 CAR 176100 LBS
UN1086
VINYL CHLORIDE,
STABILIZED
2.1
RQ (VINYL CHLORIDE)
TN=(VINYL CHLORIDE,
STABILIZED)
EMERGENCY CONTACT:
CONTRACT: 16186
8004249300
HAZMAT STCC=4905792
ERG GUIDE NO. 116

TO/CONSIGNEE:
OXY VINYL S LP
PEDRICKTOWN NJ

FROM/SHIPPER:
OXY VINYL S MILLER
LA PORTE TX

DIVISION 2.1 (FLAMMABLE GAS) >NO MORE THAN 2 CAR CUTS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
IF BAD ORDERED NOTIFY SHIPPER
LOADED TANK CAR.

054 TBOX 640019 L LEWISTOW PA NS 140 FIRST QU 3842174 A606 _____

PLTF
"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

055 BKTY 152621 L WELLSVIL OH NS 87 WELLSVIL 3312332 A402 _____

CASH PATRON-NS RECEIVED R

056 LINX 007278 L CHAPMAN PA NS 132 LINEAGE 2037361 R660 _____

PLTF
"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
FUEL AND TEMPERATURE MUST BE CHECKED
MECHANICAL REFRIGERATOR CAR.

057 DPRX 259013 E REYBOLD DE NS 41 DELAWARE 4908110 T107 _____

ENDORSED AS HAZARDOUS MAT

* HAZARDOUS *
* MATERIALS *

1 CAR
RESIDUE: LAST CONTAINED
UN1114
BENZENE
(BENZOL)
3//PG II
RQ (BENZENE)
EMERGENCY CONTACT:
SASOL CHEMICALS USA
18004249300

HAZMAT STCC=4908110
ERG GUIDE NO. 130

TO/CONSIGNEE:

FROM/SHIPPER:

DELAWARE CITY REFINING SASOL CHEMICALS KCS
 DELAWARE CITY DE WESTLAKE LA
 CLASS 3 (FLAMMABLE LIQUID) >DANGEROUS<
 HM1 PIT GROUP 4 RESIDUE TANK CAR

058 DPRX 258671 E REYBOLD DE NS 41 DELAWARE 4908110 T107 _____

 ENDORSED AS HAZARDOUS MAT

 * HAZARDOUS * 1 CAR
 * MATERIALS * RESIDUE: LAST CONTAINED

 UN1114
 BENZENE
 (BENZOL)
 3//PG II
 RQ (BENZENE)
 EMERGENCY CONTACT:
 SASOL CHEMICALS USA
 18004249300
 HAZMAT STCC=4908110
 ERG GUIDE NO. 130

TO/CONSIGNEE: DELAWARE CITY REFINING FROM/SHIPPER: SASOL CHEMICALS KCS
 DELAWARE CITY DE WESTLAKE LA
 CLASS 3 (FLAMMABLE LIQUID) >DANGEROUS<
 HM1 PIT GROUP 4 RESIDUE TANK CAR

059 XOMX 110236 L UHLERS PA NS 121 CRAYOLA 2911990 T108 _____

 LOADED TANK CAR.

060 ELTX 007458 L EIGHTY F PA NS 136 WASHINGT 2821163 C214 _____

 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

061 ELTX 003421 L CARLISLE PA NS 131 CARLISLE 2821163 C214 _____

062 NDYX 892049 L BALTIMOR MD NS 140 CTS CEME 3241115 C612 _____

 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

063 TTGX 953815 L DOREMUS NJ NS 64 FORD MOT 3711120 V978 _____

 85 FT OR LONGER RAILCAR
 MULTI LEVEL - SYSTEM TIMETABLE INSTRUCTION SP-1 APPLIES

064 TBOX 889334 L CARLISLE PA NS 126 CROWN IM 2082110 A606 _____

 PLTF

065 NOKL 603412 L CARLISLE PA NS 126 CROWN IM 2082110 A606 _____

 PLTF

066 NS 472751 L CARLISLE PA NS 101 CROWN IM 2082110 A606 _____

PLTF

067 TBOX 676291 L CARLISLE PA NS 103 CROWN IM 2082110 A606 _____

PLTF

068 TBOX 670331 L CARLISLE PA NS 116 CROWN IM 2082110 A606 _____

PLTF

069 TBOX 662599 L CARLISLE PA NS 123 CROWN IM 2082110 A606 _____

PLTF

070 KCS 112405 L CARLISLE PA NS 120 CROWN IM 2082110 B637 _____

PLTF

071 TBOX 666771 L CARLISLE PA NS 100 CROWN IM 2082110 A606 _____

PLTF

072 TBOX 664264 L CARLISLE PA NS 115 CROWN IM 2082110 A606 _____

PLTF

073 TBOX 642155 L CARLISLE PA NS 116 CROWN IM 2082110 A606 _____

PLTF

074 TBOX 643155 L CARLISLE PA NS 120 CROWN IM 2082110 A606 _____

PLTF

075 TBOX 630049 L CARLISLE PA NS 120 CROWN IM 2082110 A606 _____

PLTF

076 BKTY 151113 L SUFFERN NY NS 94 CROWN IM 2082110 A402 _____

077 TBOX 672287 L CARLISLE PA NS 100 CROWN IM 2085110 A606 _____

PLTF

078 TBOX 643036 L CARLISLE PA NS 116 CROWN IM 2082110 A606 _____

PLTF

079 TTZX 862546 L BETHLEHE PA LVRB 111 DO IT BE 2421184 F483 _____

080 NAHX 320459 L FAIRLAWN NJ NS 125 A ZEREGA 2041125 C614 _____

081 TTGX 696500 L BALTIMOR MD NS 69 GENERAL 3711120 V915 _____

85 FT OR LONGER RAILCAR
MULTI LEVEL - SYSTEM TIMETABLE INSTRUCTION SP-1 APPLIES

082 TTGX 851756 L BALTIMOR MD NS 79 GENERAL 3711120 V978 _____

85 FT OR LONGER RAILCAR
MULTI LEVEL - SYSTEM TIMETABLE INSTRUCTION SP-1 APPLIES

083 TTGX 981950 L BALTIMOR MD NS 74 GENERAL 3711120 V971 _____

85 FT OR LONGER RAILCAR
MULTI LEVEL - SYSTEM TIMETABLE INSTRUCTION SP-1 APPLIES

084 LRS 137205 L CARLISLE PA NS 127 CROWN IM 2082110 B637 _____

PLTF

085 NS 469567 L CARLISLE PA NS 118 CROWN IM 2082110 A606 _____

086 TBOX 641883 L CARLISLE PA NS 116 CROWN IM 2082110 A606 _____

PLTF

087 TBOX 675515 L CARLISLE PA NS 120 CROWN IM 2082110 A606 _____

PLTF

088 LRS 002512 L READING PA RBMN 99 INTERNAT 2631117 A406 _____

IF BAD ORDERED NOTIFY SHIPPER

089 TBOX 672773 L READING PA RBMN 138 KARCHNER 2631117 A606 _____

PLTF
"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
IF BAD ORDERED NOTIFY SHIPPER

090 BKTY 152854 L LANCASTE PA NS 88 INTERNAT 2631117 A402 _____

IF BAD ORDERED NOTIFY SHIPPER

091 UTLX 667639 L WORTON MD NS 130 EASTMAN 4914223 T107 _____

* HAZARDOUS *
* MATERIALS *

1 CAR
1 CAR 181250 LBS
NA1993
COMBUSTIBLE LIQUID,
N.O.S.
(ETHYLENE GLYCOL
MONOBUTYL ETHER)
COMBUSTIBLE LIQUID
PG III

TN=EASTMAN(TM) EB SOLVENT
, BULK
FLASHPOINT TEMP.= 62 C
EMERGENCY CONTACT:
EASTMAN CHEMICAL
CCN#7321
8004249300
HAZMAT STCC=4914223
ERG GUIDE NO. 128

TO/CONSIGNEE:
EASTMAN CHEMICAL
CHESTERTOWN MD

FROM/SHIPPER:
EASTMAN CHEMICAL
LONGVIEW TX

LOAD. COMB LIQUID > LOADED TANK MAY NOT BE NEXT TO SHIFTABLE

COMB LIQUID > NO BUFFERS REQUIRED
HM1 PIT GROUP 5 LOADED TANK CAR
LOADED TANK CAR.

092 GATX 225435 L WORTON MD NS 130 EASTMAN 2851220 T178 _____

LOADED TANK CAR.

093 UTLX 669739 L FREEDOM PA NS 128 VALVOLIN 2911791 T107 _____

LOADED TANK CAR.

094 NAHX 620163 L BETHLEHE PA LVRB 118 ECOPAX L 2821139 C214 _____

095 TTPX 081575 L SHARON PA NS 132 EDDIE KA 3312318 F253 _____

096 SHQX 004267 L MECHANIC PA NS 136 NESTLE P 2044110 C214 _____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

097 GATX 054892 L MILL HAL PA NS 126 AVERY DE 4914108 T107 _____

ENDORSED AS HAZARDOUS MAT

* HAZARDOUS *
* MATERIALS *

1 CAR
1 CAR
NA1993
COMBUSTIBLE LIQUID,
N.O.S.
(2-ETHYLHEXYLACRYLATEINH-
I)
COMBUSTIBLE LIQUID
PG III
EMERGENCY CONTACT:
CHEMTREC CONT: CCN2407
8004249300
HAZMAT STCC=4914108
ERG GUIDE NO. 128

TO/CONSIGNEE:
AVERY DENNISON CORPORATION

FROM/SHIPPER:
BASF

MILL HALL PA TION FREEPORT TX
COMB LIQUID > LOADED TANK MAY NOT BE NEXT TO SHIFTABLE
LOAD.

COMB LIQUID > NO BUFFERS REQUIRED
HM1 PIT GROUP 5 LOADED TANK CAR
LOADED TANK CAR.

098 TBOX 639745 L LEWISTOW PA NS 140 FIRST QU 3842174 A606 _____

PLTF
"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

099 TBOX 640016 L LEWISTOW PA NS 140 FIRST QU 3842174 A606 _____

PLTF
"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

100 GATX 054899 L MILL HAL PA NS 126 AVERY DE 4912215 T107 _____

ENDORSED AS HAZARDOUS MAT

1 CAR
* HAZARDOUS *
* MATERIALS *

1 CAR
UN2348
BUTYL ACRYLATES,
STABILIZED
3//PG III
EMERGENCY CONTACT:
CHEMTREC CONT: CCN2407
8004249300
HAZMAT STCC=4912215
ERG GUIDE NO. 129

TO/CONSIGNEE: AVERY DENNISON CORPORATION
MILL HALL PA TION
FROM/SHIPPER: BASF
FREEPORT TX
CLASS 3 (FLAMMABLE LIQUID) >DANGEROUS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR

LOADED TANK CAR.

101 ROIX 058372 L SOUTH PL NJ NS 123 SILVER L 2821141 C214 _____

102 MULX 200058 L MECHANIC PA NS 134 NESTLE P 2044110 C114 _____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

103 SHPX 463835 L MUNCY (L PA NS 136 ADVANCED 2821163 C214 _____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

104 ELTX 007538 L MUNCY (L PA NS 136 ADVANCED 2821163 C214 _____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

105 CCBX 058366 L WEST HAZ PA NS 127 AMCOR FL 2821142 C214 _____

 106 BRKX 066231 L EIGHTY F PA NS 128 PERFORMA 2821139 C214 _____

 107 CITX 200199 L READING PA RBMN 130 MITSUBIS 2821142 C214 _____

 108 CITX 200288 L FINDERNE NJ NS 122 EQUISTAR 2821142 C214 _____

 109 GISX 001386 L LEOLA PA NS 137 OSTERMAN 2821163 C214 _____

 ENG NS E04412 E "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
 0000000 D127 NO WAYBILL
 VERIFY LIGHT CAR PLACEMENT NEAR HEAD END LOCOMOTIVE CONSIST

 110 GONX 320417 L MINGO JC OH NS 131 FEX GROU 4021125 G516 _____

 111 GONX 310070 L MINGO JC OH NS 130 FEX GROU 4021125 G516 _____

 112 NW 189995 L CANTON OH NS 136 TIMKENST 4021125 G515 _____

 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

 113 NW 169645 L WHEATLAN PA NS 118 RIDG U R 3312331 E441 _____

 114 NS 163615 L WHEATLAN PA NS 119 RIDG U R 3312331 E242 _____

 115 NS 168788 L WHEATLAN PA NS 112 RIDG U R 3312331 E242 _____

 116 TILX 101984 L REYBOLD DE NS 138 VEOLIA N 4930042 T054 _____

ENDORSED AS HAZARDOUS MAT

 * HAZARDOUS *
 * MATERIALS *

1 CAR 204923 LBS
 UN1832
 SULFURIC ACID, SPENT
 8//PG II
 RQ (SULFURIC ACID)
 EMERGENCY CONTACT:
 CCN223205
 8004249300
 HAZMAT STCC=4930042
 ERG GUIDE NO. 137

TO/CONSIGNEE: VEOLIA NORTH AMERICA REGENERATION PHILLIPS 66 CO
 FROM/SHIPPER:

DELAWARE CITY DE EGENERATION ROXANA IL

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

CLASS 8 (CORROSIVE MATERIAL) >DANGEROUS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
LOADED TANK CAR.

117 GATX 035935 L REYBOLD DE NS 139 VEOLIA N 4930042 T054 _____

ENDORSED AS HAZARDOUS MAT

* HAZARDOUS *
* MATERIALS *

1 CAR 204348 LBS
UN1832
SULFURIC ACID, SPENT
8//PG II
RQ (SULFURIC ACID)
EMERGENCY CONTACT:
CCN223205
8004249300
HAZMAT STCC=4930042
ERG GUIDE NO. 137

TO/CONSIGNEE: FROM/SHIPPER:
VEOLIA NORTH AMERICA REGENERATION PHILLIPS 66 CO
DELAWARE CITY DE EGENERATION ROXANA IL
"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
CLASS 8 (CORROSIVE MATERIAL) >DANGEROUS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
LOADED TANK CAR.

118 TILX 101958 L REYBOLD DE NS 138 VEOLIA N 4930042 T054 _____

ENDORSED AS HAZARDOUS MAT

* HAZARDOUS *
* MATERIALS *

1 CAR 204702 LBS
UN1832
SULFURIC ACID, SPENT
8//PG II
RQ (SULFURIC ACID)
EMERGENCY CONTACT:
CCN223205
8004249300
HAZMAT STCC=4930042
ERG GUIDE NO. 137

TO/CONSIGNEE: FROM/SHIPPER:
VEOLIA NORTH AMERICA REGENERATION PHILLIPS 66 CO
DELAWARE CITY DE EGENERATION ROXANA IL
"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
CLASS 8 (CORROSIVE MATERIAL) >DANGEROUS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
LOADED TANK CAR.

119 GATX 035941 L REYBOLD DE NS 140 VEOLIA N 4930042 T054 _____

ENDORSED AS HAZARDOUS MAT

* HAZARDOUS *
* MATERIALS *

1 CAR 205114 LBS
UN1832
SULFURIC ACID, SPENT
8//PG II
RQ (SULFURIC ACID)
EMERGENCY CONTACT:
CCN223205
8004249300
HAZMAT STCC=4930042
ERG GUIDE NO. 137

TO/CONSIGNEE: FROM/SHIPPER:
VEOLIA NORTH AMERICA REGENERATION PHILLIPS 66 CO
DELAWARE CITY DE EGENERATION ROXANA IL
"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
CLASS 8 (CORROSIVE MATERIAL) >DANGEROUS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
LOADED TANK CAR.

120 GATX 035930 L REYBOLD DE NS 140 VEOLIA N 4930042 T054 _____

ENDORSED AS HAZARDOUS MAT

* HAZARDOUS *
* MATERIALS *

1 CAR 205704 LBS
UN1832
SULFURIC ACID, SPENT
8//PG II
RQ (SULFURIC ACID)
EMERGENCY CONTACT:
CCN223205
8004249300
HAZMAT STCC=4930042
ERG GUIDE NO. 137

TO/CONSIGNEE: FROM/SHIPPER:
VEOLIA NORTH AMERICA REGENERATION PHILLIPS 66 CO
DELAWARE CITY DE EGENERATION ROXANA IL
"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
CLASS 8 (CORROSIVE MATERIAL) >DANGEROUS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
LOADED TANK CAR.

121 STSX 051519 L MORRISVI PA NS 139 PRIMARY 2046115 T105 _____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
LOADED TANK CAR.

122 STSX 003110 L MORRISVI PA NS 140 PRIMARY 2046115 T105 _____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
LOADED TANK CAR.

123 STSX 051308 L ORRVILLE OH NS 129 J M SMUC 2046115 T105 _____

LOADED TANK CAR.

124 STSX 061226 L ORRVILLE OH NS 129 J M SMUC 2046115 T105 _____

LOADED TANK CAR.

125 STSX 004000 L ORRVILLE OH NS 131 J M SMUC 2046115 T105 _____

LOADED TANK CAR.

126 STSX 004201 L ROHRERST PA NS 131 Y&S CAND 2046115 T105 _____

LOADED TANK CAR.

127 STSX 003082 L VERONA PA NS 139 AMERICAN 2046115 T105 _____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
LOADED TANK CAR.

128 TILX 170527 L MORRISVI PA NS 143 ADM CORN 2046115 T105 _____

LOADED TANK CAR.

129 ADMX 016442 L MORRISVI PA NS 131 ADM CORN 2046115 T104 _____

LOADED TANK CAR.

130 DMIX 191118 L MORRISVI PA NS 143 ADM CORN 2046115 T105 _____

LOADED TANK CAR.

131 ADMX 016192 L MORRISVI PA NS 131 ADM CORN 2046115 T104 _____

LOADED TANK CAR.

132 DMIX 191011 L MORRISVI PA NS 143 ADM CORN 2046115 T105 _____

LOADED TANK CAR.

133 VTGX 190085 L CHAPMAN PA NS 144 COCA-COL 2046115 T105 _____

LOADED TANK CAR.

134 GATX 073411 L CHAPMAN PA NS 143 COCA-COL 2046115 T105 _____

LOADED TANK CAR.

135 DMIX 190425 L CHAPMAN PA NS 143 COCA-COL 2046115 T105 _____

LOADED TANK CAR.

136 ADMX 015742 L CHAPMAN PA NS 131 COCA-COL 2046115 T104 _____

LOADED TANK CAR.

137	DMIX	190327	L	CHAPMAN	PA NS	143	COCA-COL	2046115	T105	_____	_____

LOADED TANK CAR.											
138	TILX	170647	L	CHAPMAN	PA NS	143	COCA-COL	2046115	T105	_____	_____

LOADED TANK CAR.											
139	ITFX	129067	L	STRAWBER	PA NS	130	NUTRIEN	2818170	C114	_____	_____

140	SHPX	454520	L	STRAWBER	PA NS	129	NUTRIEN	2818170	C213	_____	_____

141	CR	053534	E	DYER	PA NS	38	DYER QUA	0000000	M222	_____	_____

142	CR	053318	E	DYER	PA NS	38	DYER QUA	0000000	M222	_____	_____

143	CITX	701780	L	CAMP HIL	PA NS	88	PURINA A	2061930	C114	_____	_____

144	NS	168703	L	BRISTOL	PA NS	105	ENGLERT	3312331	E242	_____	_____

145	TILX	291356	L	HAGERSTO	MD CSXT	141	VENTURA	2092110	T108	_____	_____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"											
LOADED TANK CAR.											
146	TILX	650290	L	KINGS CR	MD NS	143	MOUNTAIR	2092314	C114	_____	_____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"											
147	CEFX	360330	L	KINGS CR	MD NS	143	MOUNTAIR	2092314	C114	_____	_____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"											
148	ADMX	064225	L	KINGS CR	MD NS	143	MOUNTAIR	2092314	C114	_____	_____

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"											
149	ADMX	063057	L	MT JOY	PA NS	130	CARGILL	2046715	C114	_____	_____

000	NS	X76754	E					0000000	M970	NO WAYBILL	

	LOADS	EMPTYES	NET TONS	LT WT	GROSS TONS	LENGTH	AXLES	BRAKES
TRAIN TOTALS:	141	009	12293	05684	17977	09309	0602	0150
AHEAD RADIO :	000	000	00000	00000	00000	00000	0000	0000

POWERED UNITS INCLUDED IN LENGTH TOTAL ONLY

Norfolk Southern Railway Company
Notice of Rail Cars & Intermodal Units Containing Hazardous Materials

Train#: 32NB101

Location: CONWAY PA 02/03/23 9:46 PM

The following rail cars & intermodal units containing hazardous materials are located in your train. They must be positioned in your train in accordance with the train placement chart. Revision columns are to be used to make placement changes enroute.

INIT	NUMBER	L E	CONTAINER		L E	COMMENT	I.D. NO.	TRAIN POSITION	REVISION		
			INIT	NUMBER					1st	2nd	3rd
GATX	009166	E					1075	002			
TILX	402025	L					1086	026			
OCPX	080235	L					1086	027			
OCPX	080179	L					1086	028			
GATX	095098	L					1086	029			
SHPX	211226	L					1993	034			
DOWX	073168	L					1993	036			
NATX	035844	L					1055	047			
UTLX	205907	L					2348	048			
OCPX	080370	L					1086	053			
DPRX	259013	E					1114	057			
DPRX	258671	E					1114	058			
UTLX	667639	L					1993	091			
GATX	054892	L					1993	097			
GATX	054899	L					2348	100			
TILX	101984	L					1832	116			
GATX	035935	L					1832	117			
TILX	101958	L					1832	118			
GATX	035941	L					1832	119			
GATX	035930	L					1832	120			

NORFOLK SOUTHERN RAILWAY COMPANY

>>>> THIS TRAIN CONSIST HAS A TPOB VALUE OF 119. REFER TO TIMETABLE <<<<<
 AND/OR OPERATIONS BULLETIN FOR MAXIMUM AUTHORIZED TRAIN SPEED.
 WHEN MAKING PICK-UPS AND SET-OUTS, ADDITIONAL CALCULATIONS MUST BE
 MADE TO DETERMINE TPOB.

THIS TRAIN CONTAINS THE FOLLOWING HAZARDOUS MATERIALS CARS:

 *
 *
 *


```

*
*                               IN                SET-OUT/PICK-
UP      *
* KEY TRAIN:                    TRAIN          _____
*
* LOADED POISON INHALATION HAZARD      0          _____
*
* LOADED OTHER HAZMAT CARS OR IM TANKS 17          _____
*
*
*
*
*
*
* EMPTY POISON INHALATION HAZARD      0          _____
*
*
*

```

```

*
#
#                               EEEEEEE DDDDDD                               #
#                               E           D   D                               #
#                               EEEEEEE D   D                               #
#                               E           D   D                               #
#                               EEEEEEE DDDDDD                               #
#
#####
# This consist contains cars with excessive #
# dimensions. Check for proper clearance.  #
#                                           #
#####

```

*** HPT LOCOMOTIVE INSTRUCTION ***
Train ID 32NB101

**
*****L-238. FUEL CONSERVATION PROCEDURES MUST BE FOLLOWED AT ALL
TIMES*****

**

--
LOCATION * IF IN ROUTE WORK
PERFORMED

--

 --
 CAR HANDLING REPORT FOR TRAIN 32NB101
 CONWAY PA

ON DUTY: _____ OFF DUTY: _____

Norfolk Southern Railway Company
 Notice of Rail Cars with other than 4 axles / 1 Operative Brake

Train#: 32NB101 Location: CONWAY PA 02/03/23 9:46 PM

The following rail cars with other than 4 axles / 1 operative brake are located in your train. When making axle and brake calculations for PTC, count all cars in your consist as 4 axles / 1 brake unless alternate values are listed below. Revision columns are to be used to make placement changes enroute.

INIT NUMBER	L E	TYPE	AXLES	BRAKES	TRAIN POSITION	REVISION		
						1st	2nd	3rd
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

150 CARS = 141 LDS 009 MTYS 17,977 TONS 9,309 FEET **CARS SET OUT**
 LNE INIT NUMBER CMDTY TON CLASS HAND CONSIGNE DEST/OFFJCT TIME TRACK LINE

ENG NS E04178 E 000 TOLEDO OH NO WAYBILL
 ENG NS E04224 L 216 TOLEDO OH NO WAYBILL

EXCESSIVE DIMENSIONS.

001 OCPX 070524 PLAST 127 A0000 J-M MANU STONY PO PA _____
 IF BAD ORDERED NOTIFY SHIPPER

002 GATX 009166 LIQUE 050 A0000 DANG PAULSBOR PAULSBOR NJ _____
 ENDORSED AS HAZARDOU
 HM1 PIT GROUP 4 RESIDUE TANK CAR
 RESIDUE FLAMMABLE GAS >MAY NOT BE NEXT TO ENGINE OR OCC

CAB<

003 TTPX 081589 ISPIP 111 A0000 BI-STATE WHEATLAN PA _____

004 TTPX 805391 ISPIP 111 A0000 BI-STATE WHEATLAN PA _____

005 TTPX 080902 ISPIP 111 A0000 BI-STATE WHEATLAN PA _____

006 TTPX 806356 ISPIP 112 A0000 BI-STATE WHEATLAN PA _____

007	TTZX	864660	LUMBR	127	A0000	RIGIDPLY RICHLAND PA	_____	_____	_____
008	GACX	015324	WHFLR	141	A0000	ADM MILL CAMP HIL PA	_____	_____	_____
						"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"			
009	NS	245167	GLSWR	033	A0000	EWG GLAS BAY RIDG NY	_____	_____	_____
010	TBOX	641071	BEER	115	A0000	CROWN IM CARLISLE PA	_____	_____	_____
			PLTF						
011	CSEX	023642	LOIL	039	A0000	ERGON WE CONGO WV	_____	_____	_____
012	UTCX	046842	PLAST	033	A0000	BRASKEM MARCUS H PA	_____	_____	_____
						VERIFY LIGHT CAR PLACEMENT NEAR HEAD END LOCOMOTIVE CONSIST			
013	TILX	623413	PLAST	131	A0000	PACTIV L READING PA	_____	_____	_____
014	BRKX	062205	PLAST	131	A0000	PACTIV L READING PA	_____	_____	_____
015	GPLX	076170	PLAST	108	A0000	MITSUBIS READING PA	_____	_____	_____
016	GPLX	076158	PLAST	110	A0000	MITSUBIS READING PA	_____	_____	_____
017	GPLX	075450	PLAST	112	A0000	MITSUBIS READING PA	_____	_____	_____
018	MULX	053887	PLAST	131	A0000	PACTIV L READING PA	_____	_____	_____
019	TILX	624042	PLAST	131	A0000	PACTIV L READING PA	_____	_____	_____
020	BRKX	068611	PLAST	131	A0000	PACTIV L READING PA	_____	_____	_____
021	ARSX	004145	PLAST	131	A0000	PACTIV L READING PA	_____	_____	_____
022	BRKX	066738	PLAST	131	A0000	PACTIV L READING PA	_____	_____	_____
023	GPLX	075465	PLAST	105	A0000	MITSUBIS READING PA	_____	_____	_____
024	ECUX	860375	PLAST	115	A0000	NOVOLEX BRIDGEPO NJ	_____	_____	_____
025	UTLX	684543	FUELO	048	A0000	GORDON T BAYONNE NJ	_____	_____	_____
026	TILX	402025	VINYL	131	A0000	DANG OXY VINY PEDRICKT NJ	_____	_____	_____
						DIVISION 2.1 (FLAMMABLE GAS) >NO MORE THAN 2 CAR CUTS<			
						HM1 PIT GROUP 4 LOADED TANK CAR			
						HM1 PIT GROUP 4 OTHER CAR			
						IF BAD ORDERED NOTIFY SHIPPER			
						LOADED TANK CAR.			
027	OCPX	080235	VINYL	131	A0000	DANG OXY VINY PEDRICKT NJ	_____	_____	_____
						DIVISION 2.1 (FLAMMABLE GAS) >NO MORE THAN 2 CAR CUTS<			
						HM1 PIT GROUP 4 LOADED TANK CAR			
						HM1 PIT GROUP 4 OTHER CAR			
						IF BAD ORDERED NOTIFY SHIPPER			
						LOADED TANK CAR.			
028	OCPX	080179	VINYL	131	A0000	DANG OXY VINY PEDRICKT NJ	_____	_____	_____

DIVISION 2.1 (FLAMMABLE GAS) >NO MORE THAN 2 CAR CUTS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
IF BAD ORDERED NOTIFY SHIPPER
LOADED TANK CAR.

029 GATX 095098 VINYL 131 A0000 DANG OXY VINY PEDRICKT NJ _____
DIVISION 2.1 (FLAMMABLE GAS) >NO MORE THAN 2 CAR CUTS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
IF BAD ORDERED NOTIFY SHIPPER
LOADED TANK CAR.

030 RACX 051629 GLYCL 131 A0000 LT LYONDELL BAYONNE NJ _____
LOADED TANK CAR.

031 LYBX 005191 GLYCL 131 A0000 LT LYONDELL BAYONNE NJ _____
LOADED TANK CAR.

032 RACX 051435 GLYCL 131 A0000 LT LYONDELL BAYONNE NJ _____
LOADED TANK CAR.

033 UTLX 671772 GLYCL 127 CONWAP LT COIM USA THOROUGH NJ _____
LOADED TANK CAR.

034 SHPX 211226 ETHYL 134 A0000 HAZM EQUISTAR BAYONNE NJ _____
"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
COMB LIQUID > LOADED TANK MAY NOT BE NEXT TO SHIFTABLE
LOAD.
COMB LIQUID > NO BUFFERS REQUIRED
HM1 PIT GROUP 5 LOADED TANK CAR
LOADED TANK CAR.

035 TILX 331319 WHFLR 138 A0000 CONAGRA MILTON U PA _____
"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

036 DOWX 073168 ACRYL 140 A0000 HAZM AVERY DE MILL HAL PA _____
ENDORSED AS HAZARDOU
"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
COMB LIQUID > LOADED TANK MAY NOT BE NEXT TO SHIFTABLE
LOAD.
COMB LIQUID > NO BUFFERS REQUIRED
HM1 PIT GROUP 5 LOADED TANK CAR
LOADED TANK CAR.

037 ROIX 057036 PLAST 128 A0000 J M EAGL STONY PO PA _____

038 NCUX 040057 PLAST 131 A0000 PRIME CO NAZARETH PA _____

039 UTLX 100055 LOIL 115 A0000 LT EXXONMOB GIBBSTOW NJ _____
LOADED TANK CAR.

040 XOMX 110664 LOIL 115 A0000 LT EXXONMOB GIBBSTOW NJ _____
LOADED TANK CAR.

041 UTLX 684798 LOIL 123 A0000 LT EXXONMOB GIBBSTOW NJ _____

LOADED TANK CAR.

042	UTLX	671310	LOIL	114	A0000	LT	EXXONMOB GIBBSTOW NJ	_____	_____	_____
							LOADED TANK CAR.			
043	CERX	030072	GLYCL	141	A0000	LT	CARPENTE CHAPMAN PA	_____	_____	_____
							"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"			
							LOADED TANK CAR.			
044	SHPX	211106	GLYCL	131	A0000	LT	LYONDELL BAYONNE NJ	_____	_____	_____
							LOADED TANK CAR.			
045	NATX	231335	GLYCL	128	A0000	LT	COIM USA THOROUGH NJ	_____	_____	_____
							LOADED TANK CAR.			
046	UTLX	671913	GLYCL	127	A0000	LT	COIM USA THOROUGH NJ	_____	_____	_____
							LOADED TANK CAR.			
047	NATX	035844	BUTEN	127	A0000		DANG SYNTHOME WEST ELI PA	_____	_____	_____
							CASH PATRON-REMOVED			
							DIVISION 2.1 (FLAMMABLE GAS) >NO MORE THAN 2 CAR CUTS<			
							HM1 PIT GROUP 4 LOADED TANK CAR			
							HM1 PIT GROUP 4 OTHER CAR			
							LOADED TANK CAR.			
048	UTLX	205907	ACRYL	124	A0000		DANG ARKEMA POTTSTOW PA	_____	_____	_____
							CLASS 3 (FLAMMABLE LIQUID) >DANGEROUS<			
							HM1 PIT GROUP 4 LOADED TANK CAR			
							HM1 PIT GROUP 4 OTHER CAR			
							LOADED TANK CAR.			
049	UTLX	661296	FUELO	125	A0000	LT	VALVOLIN FREEDOM PA	_____	_____	_____
							LOADED TANK CAR.			
050	COCX	287059	CMPDS	125	A0000	LT	SHELL OI NEWELL WV	_____	_____	_____
							LOADED TANK CAR.			
051	ROIX	059396	PLAST	126	A0000		RIMTEC BURLINGT NJ	_____	_____	_____
052	ROIX	057782	PLAST	131	A0000		J M EAGL STONY PO PA	_____	_____	_____
053	OCPX	080370	VINYL	129	A0000		DANG OXY VINY PEDRICKT NJ	_____	_____	_____
							DIVISION 2.1 (FLAMMABLE GAS) >NO MORE THAN 2 CAR CUTS<			
							HM1 PIT GROUP 4 LOADED TANK CAR			
							HM1 PIT GROUP 4 OTHER CAR			
							IF BAD ORDERED NOTIFY SHIPPER			
							LOADED TANK CAR.			
054	TBOX	640019	MFGNC	140	A0000		FIRST QU LEWISTOW PA	_____	_____	_____
							PLTF			
							"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"			
055	BKTY	152621	COILS	087	A0000		WELLSVIL WELLSVIL OH	_____	_____	_____
056	LINX	007278	VEGF	132	A0000		LINEAGE CHAPMAN PA	_____	_____	_____
							PLTF			

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
FUEL AND TEMPERATURE MUST BE CHECKED
MECHANICAL REFRIGERATOR CAR.

057	DPRX	259013	BENZE	041	A0000	DANG DELAWARE REYBOLD	DE	_____	_____	_____
			ENDORSED AS	HAZARDOU		CLASS 3 (FLAMMABLE LIQUID) >DANGEROUS<				
						HM1 PIT GROUP 4 RESIDUE TANK CAR				
058	DPRX	258671	BENZE	041	A0000	DANG DELAWARE REYBOLD	DE	_____	_____	_____
			ENDORSED AS	HAZARDOU		CLASS 3 (FLAMMABLE LIQUID) >DANGEROUS<				
						HM1 PIT GROUP 4 RESIDUE TANK CAR				
059	XOMX	110236	PETRF	121	A0000	LT CRAYOLA UHLERS	PA	_____	_____	_____
						LOADED TANK CAR.				
060	ELTX	007458	PLAST	136	A0000	WASHINGT EIGHTY F	PA	_____	_____	_____
						"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"				
061	ELTX	003421	PLAST	131	A0000	CARLISLE CARLISLE	PA	_____	_____	_____
062	NDYX	892049	CMT	140	A0000	CTS CEME BALTIMOR	MD	_____	_____	_____
						"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"				
063	TTGX	953815	AUTO	064	A0000	FORD MOT DOREMUS	NJ	_____	_____	_____
						85 FT OR LONGER RAILCAR				
						MULTI LEVEL - SYSTEM TIMETABLE INSTRUCTION SP-1 APPLIES				
064	TBOX	889334	BEER	126	A0000	CROWN IM CARLISLE	PA	_____	_____	_____
						PLTF				
065	NOKL	603412	BEER	126	A0000	CROWN IM CARLISLE	PA	_____	_____	_____
						PLTF				
066	NS	472751	BEER	101	A0000	CROWN IM CARLISLE	PA	_____	_____	_____
						PLTF				
067	TBOX	676291	BEER	103	A0000	CROWN IM CARLISLE	PA	_____	_____	_____
						PLTF				
068	TBOX	670331	BEER	116	A0000	CROWN IM CARLISLE	PA	_____	_____	_____
						PLTF				
069	TBOX	662599	BEER	123	A0000	CROWN IM CARLISLE	PA	_____	_____	_____
						PLTF				
070	KCS	112405	BEER	120	A0000	CROWN IM CARLISLE	PA	_____	_____	_____
						PLTF				
071	TBOX	666771	BEER	100	A0000	CROWN IM CARLISLE	PA	_____	_____	_____
						PLTF				
072	TBOX	664264	BEER	115	A0000	CROWN IM CARLISLE	PA	_____	_____	_____
						PLTF				

073	TBOX	642155	BEER	116	A0000	CROWN IM CARLISLE PA	_____	_____	_____
			PLTF						
074	TBOX	643155	BEER	120	A0000	CROWN IM CARLISLE PA	_____	_____	_____
			PLTF						
075	TBOX	630049	BEER	120	A0000	CROWN IM CARLISLE PA	_____	_____	_____
			PLTF						
076	BKTY	151113	BEER	094	A0000	CROWN IM SUFFERN NY	_____	_____	_____
077	TBOX	672287	LIQRS	100	A0000	CROWN IM CARLISLE PA	_____	_____	_____
			PLTF						
078	TBOX	643036	BEER	116	A0000	CROWN IM CARLISLE PA	_____	_____	_____
			PLTF						
079	TTZX	862546	LUMBR	111	A0000	DO IT BE BETHLEHE PA	_____	_____	_____
080	NAHX	320459	WHFLR	125	CONWAP	A ZEREGA FAIRLAWN NJ	_____	_____	_____
081	TTGX	696500	AUTO	069	A0000	GENERAL BALTIMOR MD	_____	_____	_____
			85 FT OR LONGER RAILCAR						
			MULTI LEVEL - SYSTEM TIMETABLE INSTRUCTION				SP-1	APPLIES	
082	TTGX	851756	AUTO	079	A0000	GENERAL BALTIMOR MD	_____	_____	_____
			85 FT OR LONGER RAILCAR						
			MULTI LEVEL - SYSTEM TIMETABLE INSTRUCTION				SP-1	APPLIES	
083	TTGX	981950	AUTO	074	A0000	GENERAL BALTIMOR MD	_____	_____	_____
			85 FT OR LONGER RAILCAR						
			MULTI LEVEL - SYSTEM TIMETABLE INSTRUCTION				SP-1	APPLIES	
084	LRS	137205	BEER	127	A0000	CROWN IM CARLISLE PA	_____	_____	_____
			PLTF						
085	NS	469567	BEER	118	A0000	CROWN IM CARLISLE PA	_____	_____	_____
086	TBOX	641883	BEER	116	A0000	CROWN IM CARLISLE PA	_____	_____	_____
			PLTF						
087	TBOX	675515	BEER	120	A0000	CROWN IM CARLISLE PA	_____	_____	_____
			PLTF						
088	LRS	002512	PPBRD	099	A0000	INTERNAT READING PA	_____	_____	_____
			IF BAD ORDERED NOTIFY SHIPPER						
089	TBOX	672773	PPBRD	138	A0000	KARCHNER READING PA	_____	_____	_____
			PLTF						
			"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"						
			IF BAD ORDERED NOTIFY SHIPPER						
090	BKTY	152854	PPBRD	088	A0000	INTERNAT LANCASTE PA	_____	_____	_____
			IF BAD ORDERED NOTIFY SHIPPER						
091	UTLX	667639	ETHYL	130	A0000	HAZM EASTMAN WORTON MD	_____	_____	_____

LOAD. COMB LIQUID > LOADED TANK MAY NOT BE NEXT TO SHIFTABLE
 COMB LIQUID > NO BUFFERS REQUIRED
 HM1 PIT GROUP 5 LOADED TANK CAR
 LOADED TANK CAR.

092 GATX 225435 PAINT 130 A0000 LT EASTMAN WORTON MD _____
 LOADED TANK CAR.

093 UTLX 669739 FUELO 128 A0000 LT VALVOLIN FREEDOM PA _____
 LOADED TANK CAR.

094 NAHX 620163 PLAST 118 A0000 ECOPIX L BETHLEHE PA _____

095 TTPX 081575 IRSTL 132 A0000 EDDIE KA SHARON PA _____

096 SHQX 004267 RICE 136 A0000 NESTLE P MECHANIC PA _____
 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

097 GATX 054892 ACRYL 126 A0000 HAZM AVERY DE MILL HAL PA _____
 ENDORSED AS HAZARDOU
 COMB LIQUID > LOADED TANK MAY NOT BE NEXT TO SHIFTABLE

LOAD. COMB LIQUID > NO BUFFERS REQUIRED
 HM1 PIT GROUP 5 LOADED TANK CAR
 LOADED TANK CAR.

098 TBOX 639745 MFGNC 140 A0000 FIRST QU LEWISTOW PA _____
 PLTF
 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

099 TBOX 640016 MFGNC 140 A0000 FIRST QU LEWISTOW PA _____
 PLTF
 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

100 GATX 054899 ACRYL 126 A0000 DANG AVERY DE MILL HAL PA _____
 ENDORSED AS HAZARDOU
 CLASS 3 (FLAMMABLE LIQUID) >DANGEROUS<
 HM1 PIT GROUP 4 LOADED TANK CAR
 HM1 PIT GROUP 4 OTHER CAR
 LOADED TANK CAR.

101 ROIX 058372 PLAST 123 A0000 SILVER L SOUTH PL NJ _____

102 MULX 200058 RICE 134 A0000 NESTLE P MECHANIC PA _____
 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

103 SHPX 463835 PLAST 136 A0000 ADVANCED MUNCY (L PA _____
 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

104 ELTX 007538 PLAST 136 A0000 ADVANCED MUNCY (L PA _____
 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

105 CCBX 058366 PLAST 127 A0000 AMCOR FL WEST HAZ PA _____

106 BRKX 066231 PLAST 128 A0000 PERFORMA EIGHTY F PA _____

107 CITX 200199 PLAST 130 A0000 MITSUBIS READING PA _____

108 CITX 200288 PLAST 122 A0000 EQUICSTAR FINDERNE NJ _____

109 GISX 001386 PLAST 137 A0000 OSTERMAN LEOLA PA _____
 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

ENG NS E04412 E 000 LEOLA PA NO WAYBILL
 VERIFY LIGHT CAR PLACEMENT NEAR HEAD END LOCOMOTIVE CONSIST

110 GONX 320417 ISSCR 131 A0000 FEX GROU MINGO JC OH _____

111 GONX 310070 ISSCR 130 A0000 FEX GROU MINGO JC OH _____

112 NW 189995 ISSCR 136 A0000 TIMKENST CANTON OH _____
 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"

113 NW 169645 IRSTL 118 A0000 RIDG U R WHEATLAN PA _____

114 NS 163615 IRSTL 119 A0000 RIDG U R WHEATLAN PA _____

115 NS 168788 IRSTL 112 A0000 RIDG U R WHEATLAN PA _____

116 TILX 101984 ACID, 138 A0000 DANG VEOLIA N REYBOLD DE _____
 ENDORSED AS HAZARDOU
 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
 CLASS 8 (CORROSIVE MATERIAL) >DANGEROUS<
 HM1 PIT GROUP 4 LOADED TANK CAR
 HM1 PIT GROUP 4 OTHER CAR
 LOADED TANK CAR.

117 GATX 035935 ACID, 139 A0000 DANG VEOLIA N REYBOLD DE _____
 ENDORSED AS HAZARDOU
 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
 CLASS 8 (CORROSIVE MATERIAL) >DANGEROUS<
 HM1 PIT GROUP 4 LOADED TANK CAR
 HM1 PIT GROUP 4 OTHER CAR
 LOADED TANK CAR.

118 TILX 101958 ACID, 138 A0000 DANG VEOLIA N REYBOLD DE _____
 ENDORSED AS HAZARDOU
 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
 CLASS 8 (CORROSIVE MATERIAL) >DANGEROUS<
 HM1 PIT GROUP 4 LOADED TANK CAR
 HM1 PIT GROUP 4 OTHER CAR
 LOADED TANK CAR.

119 GATX 035941 ACID, 140 A0000 DANG VEOLIA N REYBOLD DE _____
 ENDORSED AS HAZARDOU
 "EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
 CLASS 8 (CORROSIVE MATERIAL) >DANGEROUS<
 HM1 PIT GROUP 4 LOADED TANK CAR
 HM1 PIT GROUP 4 OTHER CAR
 LOADED TANK CAR.

120 GATX 035930 ACID, 140 A0000 DANG VEOLIA N REYBOLD DE _____

ENDORSED AS HAZARDOU

"EXCESSIVE WEIGHT - IS OKAY FOR CAR AND ROUTE"
CLASS 8 (CORROSIVE MATERIAL) >DANGEROUS<
HM1 PIT GROUP 4 LOADED TANK CAR
HM1 PIT GROUP 4 OTHER CAR
LOADED TANK CAR.

121	STX	051519	CRNSP 139 A0000	LT	PRIMARY MORRISVI PA	_____	_____	_____
			"EXCESSIVE WEIGHT -		IS OKAY FOR CAR AND ROUTE"			
			LOADED TANK CAR.					
122	STX	003110	CRNSP 140 A0000	LT	PRIMARY MORRISVI PA	_____	_____	_____
			"EXCESSIVE WEIGHT -		IS OKAY FOR CAR AND ROUTE"			
			LOADED TANK CAR.					
123	STX	051308	CRNSP 129 A0000	LT	J M SMUC ORRVILLE OH	_____	_____	_____
			LOADED TANK CAR.					
124	STX	061226	CRNSP 129 A0000	LT	J M SMUC ORRVILLE OH	_____	_____	_____
			LOADED TANK CAR.					
125	STX	004000	CRNSP 131 A0000	LT	J M SMUC ORRVILLE OH	_____	_____	_____
			LOADED TANK CAR.					
126	STX	004201	CRNSP 131 A0000	LT	Y&S CAND ROHRERST PA	_____	_____	_____
			LOADED TANK CAR.					
127	STX	003082	CRNSP 139 A0000	LT	AMERICAN VERONA PA	_____	_____	_____
			"EXCESSIVE WEIGHT -		IS OKAY FOR CAR AND ROUTE"			
			LOADED TANK CAR.					
128	TILX	170527	CRNSP 143 A0000	LT	ADM CORN MORRISVI PA	_____	_____	_____
			LOADED TANK CAR.					
129	ADMX	016442	CRNSP 131 A0000	LT	ADM CORN MORRISVI PA	_____	_____	_____
			LOADED TANK CAR.					
130	DMIX	191118	CRNSP 143 A0000	LT	ADM CORN MORRISVI PA	_____	_____	_____
			LOADED TANK CAR.					
131	ADMX	016192	CRNSP 131 A0000	LT	ADM CORN MORRISVI PA	_____	_____	_____
			LOADED TANK CAR.					
132	DMIX	191011	CRNSP 143 A0000	LT	ADM CORN MORRISVI PA	_____	_____	_____
			LOADED TANK CAR.					
133	VTGX	190085	CRNSP 144 A0000	LT	COCA-COL CHAPMAN PA	_____	_____	_____
			LOADED TANK CAR.					
134	GATX	073411	CRNSP 143 A0000	LT	COCA-COL CHAPMAN PA	_____	_____	_____
			LOADED TANK CAR.					
135	DMIX	190425	CRNSP 143 A0000	LT	COCA-COL CHAPMAN PA	_____	_____	_____
			LOADED TANK CAR.					
136	ADMX	015742	CRNSP 131 A0000	LT	COCA-COL CHAPMAN PA	_____	_____	_____

POS	INIT NUMBER	STANDING ORDER LIST OF CARS PICKED UP			POS	INIT NUMBER	REVISION		
		1st	2nd	3rd			1st	2nd	3rd
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

CONDUCTOR: THIS REPORT MUST BE TURNED IN AT END OF TRIP ALONG WITH WHEEL REPORT

NOTE: CARS ON WHEEL REPORT SET OUT ON LINE OF ROAD MUST BE RECORDED ON APPROPRIATE LINE(S).

HAZARDOUS MATERIAL RADIO WAYBILL

NOTE: Print legibly

 * HAZARDOUS MATERIAL *

1. Train Number _____

2. Number of Cars from Head
 End _____ (Update the position-in-train documents)

3. Car Initial & No. _____

4. 1/Car Load or Residue Last Contained (Circle One)
 *** DESCRIPTION OF ARTICLES ***

5. Number of Packages/Car _____

6. Proper Shipping Name _____

7. Technical Name (_____)

8. Primary Hazard Class _____

Secondary Hazard Class _____

9. UN/NA Id. No. _____

10. Packing Group (PG): 1 11 111 (Circle One)

11. Reportable Quantity (RQ): (_____)

*** ADDITIONAL INFORMATION ***

12. Poison/Toxic-Inhalation Hazard:
Zone A Zone B Zone C Zone D (Circle One)

13. Marine Pollutant (_____)

14. DOT Special Permit Number(s): _____

15. Additional Information _____

16. ERAP Plan No.: _____
(Canadian Shipments Only)

17. ERAP Telephone No.: (_____) _____ -

(Canadian Shipments Only)
18. Emergency Contact (_____) _____ -

_____ (_____) _____ -

Completed:
Date: _____ / _____ / _____ Time: _____ : _____
AM MO DAY YR
PM

END OF TRIP

TRAIN: _____ OF _____ - _____

ORIGIN STATION: _____ INTERMEDIATE STATION: _____ FINAL STATION: _____

RUN MILES: _____

DEPARTURE TIME: _____ ARRIVED YARD BOARD - DATE: _____ TIME: _____

ENTERED FINAL TRACK: _____ STOPPED FINAL TRACK: _____

CARS HANDLED: _____ MAX CARS: _____

ENGINES: _____

COVERED SERVICE REPORTING

	PTO	<---ON DUTY--->			<---RELIEVED--->			<---RELEASE--->			
		HHMM	TRAIN	LOC	DATE	TIME	LOC	DATE	TIME	LOC	DATE
01	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
02	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
03	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

OTHER ACTIVITY REPORTING

	PTO	ACTV	MODE	<---START--->			<---END--->			
				HHMM	CD	TRAN	LOC	DATE	TIME	LOC
01	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
02	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
03	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

MILEPOST	HHMM	CODE	UNITS	ADDITIONAL REMARKS
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

APPENDIX C - Aerial Photo of Derailed Rail Cars

- TILX 402025 (26) Vinyl Chloride
- OCPX 80235 (27) Vinyl Chloride
- OCPX 80179 (28) Vinyl Chloride
- GATX 95098 (29) Vinyl Chloride
- RACX 51629 (30) Vinyl Chloride
- LYBX 5191 (31) Propylene
- RACX 51435 (32) Propylene
- UTLX 67172 (33) Diethylene Glycol
- SHPX 21126 (34) Ethylene Glycol
- Monobutyl Ether
- TILX 331319 (35) Semolina
- DOWX 73168 (36) Ethylhexyl Acrylate
- ROIX 57036 (37) Polyvinyl
- NCUX 40057 (38) Polyvinyl
- UTLX 100055 (39) Petroleum Lube Oil
- XOMX 110664 (40) Petroleum Lube Oil
- UTLX 684798 (41) Petroleum Lube Oil
- UTLX 671310 (42) Petroleum Lube Oil
- CERX 30072 (43) Polypropyl Glyc
- SHPX 21106 (44) Propylene
- NATX 231335 (45) Diethylene Glycol
- UTLX 671913 (46) Diethylene Glycol
- NATX 35844 (47) Isobutylene
- UTLX 205907 (48) Butyl Acrylates
- UTLX 661296 (49) Petro Oil, nec
- COCX 287059 (50) Additives, fuel

