

**HAZARDOUS WASTE SECTION - COMPLIANCE BRANCH
FILE TRANSMITTAL & DATA ENTRY FORM**

Facility ID Number: NC D047372503

Facility Name: Brenntag Mid-South, Inc.

Document Group: General (G)

Document Type: G - Compliance Assistance Visit (CAV)

File Description/Comments LQG/Transporter – Many action items were noted in the report.

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Author(s) of Document: Phil Orozco

Suborganization: Eastern Region

County (if not on report): Durham

**NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WASTE MANAGEMENT
HAZARDOUS WASTE SECTION**

COMPLIANCE ASSISTANCE VISIT (CAV) REPORT

1. FACILITY INFORMATION:

Name: **Brenntag Mid-South, Inc.**
EPA ID Number: **NCD047372503**
NCTF 00 000 015
Type of Facility: **LQG / Transporter / Transfer Facility**
Facility Location: 2000 East Pettigrew Street
Durham, NC 27703
Telephone Number: 919-281-2974
County: **Durham**

2. AUTHOR OF REPORT: Phillip Orozco, Environmental Senior Specialist, NCDEQ
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3. FACILITY CONTACT:

Jeff Matheney - Safety, Regulatory & Quality Manager
Phone: 919-281-2946; jmatheney@brenntag.com

4. SURVEY PARTICIPANTS:

Jeff Matheney - Safety, Regulatory & Quality Manager, Brenntag Mid-South, Inc.;
James P. Spencer, Mid-South, Inc. – Maintenance Supervisor;
Phil Orozco, Environmental Senior Specialist, Hazardous Waste Section, NCDEQ.

5. DATE OF INSPECTION: March 24, 2015

6. PURPOSE OF INSPECTION: This was an audit to assist with compliance pertaining to the regulations described at Chapter 40 of the Code of Federal Regulations, (40 CFR) Parts 260-270, 273, 279; and, Title 15A Chapter 13 of the North Carolina Administrative Code (NCAC). (40 CFR 263 are rules that pertain to transporters of hazardous waste.) A Compliance Assistance Visit (CAV) occurred on June 24, 2014. Previous CEIs were conducted on 3/24/15, 3/27/13, 8/29/12 and 8/25/11.

7. FACILITY DESCRIPTION:

Brenntag Mid-South, Inc. (Brenntag) is listed as a transporter and Large Quantity Generator (LQG). Brenntag re-notified the State on 1/30/13 indicating the name of the facility and the owner changed from Brenntag Southeast Inc. to Brenntag Mid-South, Inc. Jeff Matheney joined the company in September, 2015, and has taken over many of the responsibilities associated with Brenntag's hazardous waste management program.

The Durham facility serves as a regional distributor of industrial chemicals. High volume chemicals are transported (via railcars and tanker trucks) to this facility for off-loading. These chemicals include, but are not limited to: caustic soda, soda ash, acetone, ethyl acetate, isopropyl alcohol, ethanol, 1,1,1-Trichlorethane and toluene. Approximately, 40% of the chemicals that come to the site are transferred from bulk and repackaged into 55-gallon drum containers for distribution.

The repackaging of product is the primary process that generates hazardous waste at the facility. When the fill lines are switched over from one product to the next, the fill line is flushed by the subsequent product in the repackaging process. The flush generates 5-6 gallons of a blend of the two products. The flush is containerized in 55-gallon drums. The solvents were once managed as hazardous waste but the majority of time can be sold to a third party and reused as product.

The blend flammable solvents consist of a combination of constituents that vary in type and quantity. The constituents within each drum may contain any combination of the following: Ethyl alcohol, Isopropyl alcohol, Methyl Ethyl Ketone (MEK), xylene, hexane or other constituents.

From 2005 to present, Brenntag has sold the blend flammable solvent. Selling the solvent required a quality assurance color test before being accepted by the buyer. After pumping the blend flammable solvent from containers into a tanker truck, the load was tested by Brenntag's quality assurance lab staff. If the blend flammable solvent passed the QA test, it is sold to Giant Resource Recovery – Sumter, Inc. in South Carolina. Giant uses the blend flammable solvent for direct use (as is) as a constituent in lacquer thinners, cleaners and strippers as allowed by 40 CFR 261.2(e)(1) - as materials that are not solid waste when recycled. If the material does not pass QA, the load is transported to Giant for disposal as a hazardous waste. In the past two years, the facility has further adjusted the repackaging process to greatly decrease the generation of hazardous waste.

A review of the 2015 Biennial Report indicated that greater than 95 percent of the material in 2015 had been reused by Giant Resource Recovery in South Carolina.

GENERAL INFORMATION:

- Legal owner of business: Brenntag Mid-South, Inc.
- Legal owner of property: Brenntag Mid-South, Inc.
- Square footage of occupied space : 120,000
- Acreage: 11
- Operating shifts: 3
- Number of employees: 120
- Water supply: municipal
- Municipal sewer/septic/on-site treatment facility: municipal
- Number of on-site water wells : None
- Groundwater monitoring wells on-site: Yes
- Distance to closest off-site well: ¼ mile - warehouse complex at Ellis Rd. & Pettigrew St.
- Closest private residence : 0.1 mile

Names & Job Titles of those who are involved in management of HW:

In addition to other responsibilities, the first eight men listed below serve on the Emergency Response Team (ERT).

James Spencer, Office Manager

George Bilger, Production Manager - Solvent

Jimmy McCauley, Production Manager – Acid and Peroxides

Dennis Luster, Warehouse Manager

Mike Rourke, Operations Manager - Durham

Clint Burton, Warehouse 1st Shift Operator

Johnnie Adams, Warehouse Technician

8. HAZARDOUS WASTE STREAMS INCLUDE:

D001, D002, D003, D007, D035, D039, D040
U008, U043, U076, U079, U080, U210, U213, U220, U226, U228

9. SUMMARY OF INSPECTION & NECESSARY ACTIONS:**➤ Emergency Preparedness (Arrangements with local authorities) -**

Brenntag has made arrangements by issuing a certified letter dated December 16, 2014, to the Durham County Sheriff's Office, Durham County Fire and Rescue Services and to Duke Hospital. The arrangements with the authorities appeared satisfactory.

All essential information that may be needed in case of emergency can be accessed remotely by computer by Brenntag personnel.

➤ Contingency Plan (CP) –

The plan was last revised in December 11, 2014. The revised plan was sent to the local police and fire department(s) and Duke University Hospital on 12/16/14. The revised plan lists Jeff Best as the Emergency Coordinator (EC). James Spencer, Rob Walston and George Bilger are listed as EC alternates.

*At the time of inspection, it was not entirely clear if the 2014 CP was the most current.

*The capabilities of the emergency equipment could not be found at the time of inspection.

➤ Inspection Records (HW storage area) –

Weekly inspections since the previous CEI appeared to be complete.

As a result of the previous CEI, a transporter/transfer area log is now maintained. No hazardous waste has been stored in the 10-day area.

➤ Training Records –

CP implementation is incorporated into the Annual HW/ RCRA refresher training. Persons listed below completed training on the following dates:

James Spencer – CP/RCRA on 8/6/14, 4/7/15;

Jeff Best – CP/RCRA 5/9/14, 6/2/15, 2/8/16;

Louise Julian –5/5/11, 5/4/12, 5/9/13. In 2014, her responsibilities no longer included hazardous waste management.

*Records appeared to indicate that Jeff Best, the Emergency Coordinator, was 1-month last in taking the CP refresher training.

➤ Job Descriptions –

The job descriptions for the SRQ Manager (Jeff Matheney) and the Operations Manager / Assistant Operations Manager were reviewed.

*It was decided that the job description for the Safety, Regulatory & Quality Manager would be improved.

➤ Biennial Report – Submitted on 2/18/16.**➤ Manifests / Land Disposal Restriction (LDR) Notifications – Manifests and LDR notifications appeared to be complete.****➤ Transporters:**

Brenntag Southeast Inc. NCD 047 372 503

Brenntag Southeast Inc. NCD 003 471 158

- **TSD's:**
Ecoflo NCD 980 842 132
Giant Resource Recovery – Sumter, Inc. SCD 036 275 626
- **Satellite Accumulation Areas (SAAs):**
Solvent Re-Pak Bldg. #1 – One 55-gallon drum of blended flammable solvents. No hazardous waste was present.

QA/QC Laboratory - Scott Dirl is the laboratory manager. The laboratory conducts QA/QC testing on the products. Samples and production standards used in the GC/MS are returned to the applicable packaging areas for accumulation. Inspectors observed a 4-liter container and a 2-gallon container in a fume hood. The containers were closed and marked with the words “solvent waste”.

The sampling and analysis records for the wastewater accumulated in the concrete neutralization pit were reviewed. Analysis results for samples since the last inspection ranged between a pH of 7.0 and 7.5

Used oil – Located in the truck transfer depot.

***Drums have repeatedly been found in this area unlabeled. On the day of this visit it did appear that a couple of containers were not properly marked as “Used Oil”.**

Maintenance Shop –

*** The last inspection noted that a container for used aerosol cans was needed. Inspectors explained that the facility should determine the ingredients in each aerosol can to determine if it is hazardous waste prior to disposal.**

*** On the day of this visit, it was discovered that used fuel filters were being generated. It was thought at that time that a hazardous waste determination had not been completed on the filters. Brenntag will need to determine if the filters are a hazardous waste. If so, they must be properly managed.**

- **Storage Areas:**
Hazardous Waste Drum Storage Area – No hazardous waste was present.
Universal Waste – Used lamps and batteries are stored in the Maintenance Shop. Several cardboard boxes were observed holding used lamps. The boxes were closed and properly marked and/or labeled.
- **Concrete Neutralization Pit**
Brenntag utilizes a concrete pit to accumulate corrosive wastewater generated in the corrosive packaging area. The wastewater is discharged via a pipe constructed in a concrete trench to the concrete pit. The wastewater is neutralized using sulfuric acid or sodium hydroxide. The level in the pit is monitored to determine when it has reached its high point. When the pit becomes full, the wastewater is sampled and tested for pH by Brenntag’s on-site QA/QC laboratory prior to off-site shipment.
- **External Condition at the Facility:**
No adverse conditions observed.

10. **WASTE MINIMIZATION:** Brenntag sells blend flammable solvents accumulated from the re-packaging process. The solvent is re-used as a constituent in a product. This practice greatly reduces the generation of hazardous waste.

11. COMMENTS/ACTION ITEMS (Includes items noted by an * above in the text of the report.):

- a. Letters to document compliance with 40 CFR 265.37 must be readily available for inspection.
- b. The revised contingency plan must be completed and sent to the appropriate authorities ASAP. Ensure compliance with 40 CFR 265.52. Ensure capabilities of the emergency equipment are included in the contingency plan.
- c. Hazardous waste management training, including implementation of the contingency plan, must be completed within 365 days from the previous year's completion date.
- d. Job descriptions in accordance with 40 CFR 265.16 must be readily available for inspection. Ensure all requirements described in the rule are included.
- e. A job description for the SRQ Manager must be completed in accordance with 40 CFR 265.16 ASAP.
- f. Ensure Universal Waste - Lamp labels and dates are visible for inspection without moving boxes or containers
- g. Ensure used oil containers, including those located in the truck transfer depot and maintenance shop, are marked with the words "Used Oil". Ensure that the contents of every container can be immediately identified.
- h. Create a SAA container for used aerosol cans.
- i. Complete a **hazardous waste determination on the fuel filters being generated on-site. Brenntag will need to determine if the filters are a hazardous waste or they may be managed as hazardous waste.**
- j. Concrete Neutralization Pit – We recommend that the condition & integrity of the concrete pit should be examined by a professional engineer.
- k. Training Records – Be aware that training records for current personnel must be kept until closure of the facility. **Training records on former employees must be kept for at least three years from the date the employee last worked at the facility.** It is recommended that the past three years of training records for all applicable employees be immediately accessible for review by the inspector.


Phillip G. Orozco

Environmental Senior Specialist, NCDEQ

Date: June 21, 2016