

## Region 3 GPRA Baseline RCRA Corrective Action Facility

# Chemtura Corp (Formerly: General Electric Company)

Morgantown Industrial Park North and South  
Morgantown, WV 26505

Congressional District 1

EPA ID #: WVD980552384 (North Plant)

WVD061776977 (South Plant)

Last Updated: 06/17/2008

## Current Progress at the Site

---

1992: The General Electric Company (“GE”) installed monitoring wells at the North and South Plant facilities, analyzed soil samples collected from the well borings, and implemented a groundwater monitoring program. In addition, GE collected surface water, seep, and sediment samples from locations at the North Plant and on property adjacent to the Morgantown facility. Results were submitted in bimonthly progress reports.

1995: GE collected soil samples from locations where contaminants may have been released at the North and South Plant facilities and at the former Laboratory.

1996: GE submitted a Draft RFI Report summarizing all investigation results and proposed that only the presence of dichloroethane in groundwater at the North Plant and surficial coal tars in soils by former coal tar tanks at the South Plant required remediation.

GE proposed the following interim measures:

(1) An investigation of dichloroethane in groundwater at the North Plant, and

(2) A source stabilization (via removal) of surficial coal tars by the location of former coal tar storage tanks in the South Plant.

1996 through 2002: An initial review of the report was completed via an outside contract. A detailed review was delayed due to the knowledge of no imminent risks and the need to prioritize reviews.

2000: GE implemented source stabilization by removing surficial coal tars from the area of the former coal tar storage tanks.

On December 19, 2000, the State of West Virginia Division of Environmental Protection Office of Waste Management issued a Hazardous Waste Management Permit for operation of one (1) container storage area and two (2) storage tanks for ten years.

2002: EPA issued comments on the Draft RFI that identified different conclusions and additional data gaps.

2003: GE conducted a Phase II RFI that further evaluated soil and groundwater at the North Plant, South Plant, and the former Laboratory. The Phase II RFI included the investigation of dichloroethane proposed in 1996.

2004: GE submitted a Draft Phase II RFI Report. The Report contained detailed ecological and human health risk assessments that were developed using the recent data.

GE submitted a Draft Environmental Assessment for the Former Ammonia Storage Sphere Structures.

GE conducted a radiation survey at the North and South Plants and the former Laboratory at the request of the EPA. The investigation for radiation yielded no evidence of radiological contamination.

Chemtura evaluated the potential for airborne releases from the waste water plant operations to impact human health. The evaluation indicates that there is no unacceptable human health impact resulting from contaminants known or estimated to be released to outdoor air from the waste water treatment plant operations.

Chemtura removed contaminated stockpiled soil that it had excavated in late 2003.

On September 30, 2004, EPA determined that current human exposures at the North and South Plants of the Facility are under control

2005: GE submitted a Draft Bedrock and Overburden Investigation Report.

EPA provided comments to GE on the Draft Bedrock and Overburden Investigation Report. GE agreed to complete further investigation once it received all comments on the Draft Phase II Report.

On October 3, 2005, EPA determined that migration of contaminated groundwater at the South Plant (including the former Laboratory) is under control. In its decision, EPA identified the need for additional monitoring to confirm and sustain the groundwater determination finding.

2006: EPA provided comments to GE on the human health risk assessment and the ecological risk assessment and GE responded to the comments. GE agreed to address outstanding data gaps in the next round of sampling.

2007: EPA provided comments to GE on outstanding data gaps on March 15. A meeting to discuss the data gaps took place on May 18. During the meeting, GE presented a Conceptual Site Model (CSM) for the site which was based on data collected from field investigations and the surrounding Morgantown Ordnance Works Removal Action Site (OU-2). Based on the CSM, EPA and GE agreed on contaminants and general areas requiring further action and GE has agreed to move forward with implementing interim corrective measures that address the contaminants in those general areas. In addition, GE agreed to incorporate institutional controls into its final remedy, where appropriate. GE submitted an Interim Measures workplan in July that includes evaluation of organics at the North Plant and organics and PAHs at the South Plant, as well as a research evaluation of in-situ biological treatments to address organics in the North Plant. EPA approved the workplan in August, and GE began to implement the workplan.

2008: GE completed all field work associated with its workplan and continued to implement laboratory studies of in-situ biological treatments for 1,2 DCA. GE provided interim results of its ongoing laboratory studies during an April 17, 2008 conference call. Since then, GE has had continued success with its research. The results of the field work and research evaluation will be available by the end of the calendar year. In addition, GE plans to place clean fill in an area where coal tar impacts were removed and plans to address EPA's comments on the Phase II Remedial Investigation.

## Site Description

---

The General Electric Company Facility consists of three non-contiguous properties within the Morgantown Industrial Park, an industrial complex located along the west bank of the Monongehela River in Morgantown, WV. The three properties are the North Plant, a South Plant, and a former and currently inactive Laboratory located on property between the North and South Plants. The RCRA identification numbers for the North Plant and the South Plant are WVD980552384 and WVD061776977, respectively. The North and South plants are each located on approximately 30 acres while the former Laboratory is located on approximately 3/4 of an acre.

From 1940 to 1958, successive owners and operators, including the U.S. Government, Dupont Corporation, Sharon Steel, Heyden Chemical (Tenneco) and Matheson Chemical (Olin) used coal to produce coke, ammonia, methanol, formaldehyde, and hexamine at the facility. From 1943 to 1945, heavy water (deuterium) was manufactured at the facility to support the Manhattan Project. Disposal of fly ash, coal ash, cinders, excess coal, and coal tar wastes occurred throughout the property during the nearly 20 years of coal-related processing operations associated with the facility. The facility was inactive from 1958 to 1962 when a specialty chemical business began to be operated at the facility by Weston Chemical/Borg-Warner. GE purchased the Weston/Borg-Warner property in 1988. Currently, antioxidants, hydrochloric acid, and organophosphorous polymer additive stabilizers are manufactured at the North Plant and alkyl phenols, hydrochloric acid, and organophosphorous polymer additive stabilizers are manufactured at the South Plant.

The Facility is located within a Superfund site commonly referred to as the Morgantown Ordnance Works, where surface soils containing elevated levels of PAHs, PCBs, mercury and arsenic were removed. Acid mine drainage impacts surface water and groundwater at the Facility.

The City of Morgantown is located across the river and to the north of the facility. The drinking water intake for the City of Morgantown is located directly across the river from the North Plant.

## Site Responsibility

---

RCRA Corrective Action activities at this facility are being conducted under the direction of EPA Region 3 with assistance from the State.

EPA issued a RCRA Corrective Action (investigative) Consent Order to GE Specialty Chemicals, Inc. in 1990. In 2003, EPA revised the order recipient from GE Specialty Chemicals, Inc. to General Electric Company; and GE sold the facility to Crompton Corporation. As a result of the sale, GE retained responsibility for addressing most of the requirements of the Consent Order and Crompton Corporation took on responsibilities of the Order related to current operations and any new releases. In 2005, the name of the owner of the facility changed from Crompton Corporation to Chemtura Corporation.

## Contaminants

---

In the findings of fact presented in the 1990 Consent Order, benzene and toluene were identified as having been found at concentrations greater than drinking water standards in the North Plant and toluene was found at a concentration greater than the drinking water standard in the South Plant. As a result of the facility wide investigations, different chemicals of concern have been identified. Those chemicals include dichloroethane, trichloroethane, trichloroethene, perchloroethylene and arsenic in the North Plant and perchloroethylene and trichloroethene, and their breakdown products, as well as polyaromatic hydrocarbon compounds in the South Plant.

## **Community Interaction**

---

The facility has a community relations plan in place to keep the community informed about the status of corrective action. The facility informs the community about progress on the investigations through occasional meetings with the community and occasional newsletters. On July 21, 2000, GE issued a fact sheet announcing remediation of the coal tar tanks.

## **Institutional Controls**

---

GE will incorporate Institutional Controls into the final decision for this site.

## **Government Contacts**

---

EPA Project Manager  
Ms. Diane Schott - 3LC20  
U.S. Environmental Protection Agency - Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029  
Phone: (215) 814-3430  
Email: schott.diane@epa.gov

Ms. Catherine Guynn  
West Virginia Division of Environmental Protection  
601 57th Street  
Charleston, WV 25304  
Phone: (304) 926-0499 ext. 1288  
Email: CGUINN@wvdep.org

For more information about EPA's corrective action webpage, including Environmental Indicators, please visit our site at: [www.epa.gov/reg3wcmd/correctiveaction.htm](http://www.epa.gov/reg3wcmd/correctiveaction.htm)

## **Facility Contact**

---

GE Project Coordinator  
Ms. Lisa Hamilton  
Manager, MidAtlantic/Southeast/Western Regions  
General Electric Company  
640 Freedom Business Center  
King of Prussia, PA 19406  
Phone Number: 610-992-7885  
E-mail address: Lisa.Hamilton@corporate.ge.com

Chemtura Project Coordinator  
Mr. George Collentine, Manager  
Environmental Remediation  
Chemtura Corporation  
199 Benson Road MC#2-4  
Middlebury, Connecticut 06749  
Phone number: (203) 573-2825  
E-mail address: George.Collentine@chemtura.com