



Environmental Leader Facility

DuPont - Pontchartrain Site

LaPlace, LA

The DuPont company's portion of the Pontchartrain facility, located in LaPlace, produces diamines. The primary product, para-phenylenediamine, is used in the manufacture of Kevlar® fiber. Kevlar® is used in bullet proof vests, fiber optic cable coatings, and other high performance materials needing flexibility and strength. Other uses for chemicals produced at the DuPont site include the following applications: in paints to reduce volatile emissions to the atmosphere, in rubber products to make them more durable, as fuel additives, and in agricultural chemicals to enhance their effectiveness. Approximately 150 full time workers are employed at the DuPont portion of the site.

Pollution Prevention Highlights

- 1998-2003 – Implemented Six Sigma® technology to improve process productivity. Two projects have reduced steam usage by over 50 million pounds per year. Additional projects have been implemented to optimize certain equipment and to reduce the need for rework of material that does not meet product specifications. These projects, which will continue beyond 2003, reduce energy consumption and emissions.
- 1998 – Consolidated production of Dytek® at another DuPont facility which resulted in a reduction of TRI chemical releases by 35,000 pounds per year.
- 1997 - Reduced TRI chemical releases to the non-hazardous deepwell by 100,000 pounds per year by implementing a project to recycle a portion of the aqueous waste.
- 1996 – Shut down the Pontchartrain Hazardous Waste Incinerator in March of 1996 which resulted in a substantial decrease in waste and emissions from the site including the following reductions: 150,000 pounds of TRI chemical releases; 1,000,000 pounds of waste to landfills; and 60,000 pounds to deepwells.
- 1995 – Recognized as an “Environmental Champion” in the U.S. EPA 33/50 program for reducing emissions of 17 toxic chemicals by more than 50 percent before the goal date.

Pollution Prevention Goals

WASTE STREAM	BASELINE YEAR	CURRENT YEAR QUANTITY	TARGET YEAR QUANTITY	COMMENTS
Nitrate in aqueous waste (TRI discharge) (lbs/yr)	1988 910,000	2002 411,850	1997 500,000	Aqueous Waste Recycle
TRI air emissions (lbs/yr)	1987 134,000	2002 16,770	2000 25,000	Source Reduction and Fugitive Emission Control
Greenhouse gas emissions (M lbs/yr)	1990 9,150	2002 3,596	2010 3,202	Reduce Steam Usage and Improve Boiler Operations
Spent carbon from carbon absorption (lbs/yr)	1995 120,000	2001 87,400	2004 80,000	Non-Hazardous Waste Source Reduction/ Operation Improvement

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