GOVERNOR'S ENVIRONMENTAL LEADERSHIP AWARDS 2004

LOUISIANA FACILITIES RECOGNIZED BY GOVERNOR BLANCO FOR PROJECTS DEMONSTRATING LEADERSHIP IN POLLUTION PREVENTION, COMMUNITY OUTREACH, AND ENVIRONMENTAL MANAGEMENT SYSTEMS

Pollution Prevention Program Achievement

East Baton Rouge DPW Environmental Division (Baton Rouge)

For a program to recover landfill methane gas for use as an industrial energy source.

The goal of this program is to recover methane gas that is generated by decomposing waste in the East Baton Rouge Parish Renewable Energy Landfill and to sell the gas for use as boiler fuel by local industry. The current gas production rate at the center is 800 cubic feet per minute. By collecting and purifying the gas rather than just burning it in a flare, East Baton Rouge City-Parish creates a source of income, provides a source of cost-effective fuel to Baton Rouge industry and benefits the environment by reducing emissions of methane, a greenhouse gas.

Monsanto Company (Luling)

For Monsanto's Beneficial-Use Program which utilizes industrial biosolids generated from the company's biological wastewater treatment facility for soil enrichment.

Monsanto's Beneficial-Use Program utilizes the industrial biosolids generated from the plant's biological wastewater treatment facility as fertilizer or soil conditioner. The on-site beneficial use of industrial biosolids is an invaluable solid waste management tool when compared to transporting the waste off-site for disposal. Since its inception, Monsanto has applied 45,150 wet tons or 2,257 truckloads of biosolids on two tracts of agricultural land within the plant's property lines, and has harvested protein-rich hay grass for distribution to local cattle farmers. The program eliminates the hazards associated with transportation, and the reduction in off-site solid waste disposal saves landfill space.

BellSouth (New Orleans)

For a program that recycled over 60 tons of paper from over six hundred work locations in Louisiana.

With over six hundred (600) work locations in Louisiana, BellSouth implemented an internal paper recycling effort that would reduce the company's landfill deposits of waste paper. Waste paper containers for recycling were placed within all of the company's offices. This program resulted in the recycling of over sixty tons of paper that otherwise would have ended up in landfills.

DynMcDermott Petroleum Operations Company
Strategic Petroleum Reserve (New Orleans)

For a mercury lamp reduction program for the DOE Strategic Petroleum Reserve.

In 2004, the Strategic Petroleum Reserve (SPR) eliminated the mercury bulb waste streams throughout SPR Louisiana facilities by partnering with the federal energy management program for matching funds to implement an energy efficiency "green" retrofit effort. The program included developing specifications to install energy efficient ballasts outfitted with "green" manufactured certified lamps that would pass the toxicity characteristic leaching procedure (TCLP) test as non-hazardous. This innovative pollution prevention program has significantly reduced the hazardous waste stream, increased recycling of mercury-containing product, incorporated "reuse", afforded the company a cost avoidance, and provided a direct benefit to the community. The retrofit program permanently and significantly reduced the mercury level in the spent fluorescent lamp waste stream by 70 percent

as compared to non-TCLP compliant lamps. An additional benefit is that all the mercury used in the manufacture of newly installed lamps is recycled. At the conclusion of the program for FY 2004, one hundred percent (100%) of the existing lighting at SPR will pass the TCLP test as non-hazardous for mercury.

The Fairmont New Orleans (New Orleans)

For implementing a comprehensive waste reduction program to recover and recycle solid wastes in all of its operations.

The Fairmont New Orleans has in the last year completely redefined its operations to include a policy of waste prevention and reduction in every department. The program involved removing solid waste products including office paper, newspapers, aluminum cans, toner cartridges, batteries, guest amenities, food waste, and other items from the trash stream. End-of-the-day food items and all guest amenities (soap, shampoo, tissues, etc.) and linen, towels and blankets that do not meet hotel standards are given to community organizations to package and distribute to the needy.

The Fairmont New Orleans has created an organization entitled the "New Orleans Hotels for Environmental Awareness and Preservation" (NOHEAP) to encourage cooperation with other New Orleans hotels in establishing similar waste reduction programs, promoting community outreach efforts and generally improving the environment of New Orleans.

Pollution Prevention Project Achievement

General Motors Corporation (Shreveport)

For significant reductions in the amount of cardboard solid waste generated in the vehicle assembly process.

General Motors Shreveport Operations receives parts for vehicle assemblies that are shipped from suppliers in cardboard boxes. Approximately 2,000 different parts are received in that manner. General Motors implemented this project as a waste minimization effort involving reuse by means of item substitution. By substituting reusable containers that can be shipped back to suppliers, General Motors has conserved resources at the facility and has made significant reductions in the amount of solid waste to be landfilled. To illustrate, in calendar year 2000, the cardboard generation rate normalized to production was approximately 24.6 pounds per vehicle. For 2004, the rate was reduced to approximately 10.5 pounds per vehicle, a reduction of 57%.

Schering-Plough Animal Health Corporation (Baton Rouge)

For eliminating cardboard solid waste from the storage facility at Schering-Plough Animal Health Corporation.

Schering-Plough Animal Health, (SPAH) Baton Rouge, developed a project to enhance the existing Pollution Prevention Plan by making a commitment to reduce cardboard usage and disposal. The site had used 1-yd cardboard boxes for several years to temporarily store and dispose of used PPE and other non-regulated materials. In 2004, the site began storing its PPE and other non-regulated materials in a roll-off box for later disposal. SPAH reduced the use of cardboard boxes from 175 per year (approximately 3,500 pounds/year) to zero.

SPAH used National Recycling Coalition (NRC) data to quantify the environmental benefits of the cardboard reduction. These efforts resulted in avoiding the use of 30 trees, 12,000 gallons of water and reduced 100 pounds of air pollutants, on a yearly basis, according to NRC data. Additionally, the site has since realized transportation and energy savings through the consolidation of the number of pick-ups per year.

Valero Krotz Springs Refinery (Krotz Springs)

For implementing a hazardous waste reduction project which reduced off-site disposal of hazardous materials by 85 percent.

As an alternative to off-site disposal, Valero Refining Company investigated processes that would allow a reduction in disposal of hazardous waste at its Krotz Springs Refinery.

Consideration was given to the waste management hierarchy, and it was determined that the most feasible option was to achieve waste reduction through recycling. This option was available as a result of RCRA regulatory changes that allowed hazardous sludges from refineries to be used as coker feed. Valero used this option to move away from hazardous waste incineration, instead recycling the sludges as coker feed. To illustrate, Valero at Krotz Springs generated 184.2 tons of hazardous waste in 2003. Of this total 154.5 tons or approximately 85 percent were sent to Motiva Enterprises LLC for coker feed stock. This not only reduced disposal costs, but also reduced potential air emissions.

Chevron Oronite (Oak Point)

For a project to design and install a recovery unit to eliminate Polyisobutene (PIB) Organic Waste.

The polyisobutene unit at Chevron's Oak Point plant provides starter or intermediate feed stock for approximately 50 percent of the components produced at the plant. This unit is capable of producing two molecular weight products. Production of the higher molecular weight product generates PIB organic waste containing hexane that requires off-site disposal. As part of the facility's waste minimization plan, a team was formed to investigate options for reducing the amount of PIB organic waste products using the Chevron Texaco Project Development and Execution Process. The team identified the most feasible option from both an environmental and cost perspective as being source reduction which involved recovering the waste stream back into the manufacturing process. The result was the design and installation of a recovery unit that virtually eliminates a source of toxic chemical waste. By eliminating generation of the waste, Chevron Oronite has eliminated approximately 13 tank truck loads of PIB organic waste containing hexane that previously required off-site shipment.

Monsanto Company (Luling)

For a project that achieved a reduction of 120 million pounds in annualized waste generation of hydrochloric acid and sodium hydroxide in the production of Glyphosate Intermediate.

Glyphosate Intermediate (GI) is an intermediate chemical used in the manufacture of Roundup ® herbicide, and is produced by the reaction of three key raw materials and a fourth that is used to neutralize an aqueous hydrochloric acid waste stream which is disposed of in onsite non-hazardous waste injection wells. The "Six Sigma" process improvement method was used to optimize the use of these four raw materials. The project resulted in an improved understanding of how one raw material was the key cost driver, but also directly linked to the production of by-product hydrochloric acid. The result was a breakthrough in operations which significantly reduced operating cost, reduced the use of raw materials, and reduced annualized waste produced by 120 million pounds.

Marathon Ashland Petroleum LLC (Garyville)

For a project to reduce emissions of highly reactive volatile organic compounds (HRVOCs).

Marathon Ashland Petroleum, LLC. established a team consisting of members of the operations maintenance, tech services and environmental departments to identify the sources of HRVOC emissions from its Louisiana refinery facility and to evaluate potential operational enhancements and physical modifications to reduce these emissions.

Based on this study, Marathon Ashland implemented procedural and operational changes relating to the flaring of fuel gas at the refinery. These changes successfully reduced both the number and duration of flaring events and as a result, significantly reduced the amount of HRVOCs released - from 731 pounds in 2003 to 171 pounds in 2004.

Environmental Management System Achievement

Monsanto Company (Luling)

For improving the facility's Environmental Management System which led to greater air permit compliance and sustainable reductions in releases.

The Monsanto Luling Plant has recently enhanced its Environmental Management System through three distinct activities:

1) Implementation of a web-based release reporting program, which has tremendously increased the ease of reporting releases, thus encouraging employees to report all releases – no matter how small. By diligently reporting all releases, the plant is better able to prevent larger releases from occurring.

2) Completion of a Six Sigma release reduction project, which created a "risk rating" criteria for all releases to facilitate review of the releases having the highest potential for becoming reportable incidents, and which also identified a series of potential "high risk" release scenarios and associated preventive actions.

3) Implementation of Title V air permit compliance data management system, which allows the plant to very easily monitor compliance with its operating limits on a daily basis. Through this system, Monsanto has been able to respond quickly to problems and has dramatically reduced its number of air permit deviations.

Marathon Ashland Petroleum (Garyville)

For the implementation of an integrated Environmental Management System with an existing Health, Safety and Security Management System.

Marathon Ashland Petroleum (MAP) has continued to demonstrate their environmental stewardship through a commitment to high standards in the areas of health, environment and safety. By integrating these areas into their established Environmental Management System, MAP, a 270,000 bbls per day crude oil process, met multiple improvement objectives. In 2004, the Louisiana refinery set a goal to reduce the amount of environmental incidents by 35% and actually achieved a 40% reduction.

Community Environmental Outreach Achievement

East Baton Rouge City Parish, DPW Environmental Division (Baton Rouge)

For the implementation of a Sanitary Sewer Overflow Project with community education and outreach to reduce blockage in East Baton Rouge Parish's wastewater collection system.

In an effort to reduce sewer overflows, blockages within the wastewater system, and the associated cost for this problem, the East Baton Rouge City Parish Department of Public Works began a preventive maintenance project to address these matters. The City-Parish established a project goal to drastically reduce the adverse effects on these systems caused by fats, oils and greases. This process consisted of extensive cleaning of the systems, inspections, initiation of training and close involvement of the community with a non-regulatory educational program. Since the implementation of this project, a significant reduction in the amount of overflows and blockages has been obtained. Additionally, as a result of this effort, the City-Parish has minimized the potential environment risks associated with overflows such as surface and ground water contamination and the potential dispersal of harmful contaminants within recreational lakes, streams, and ponds. The Department of Public Works is optimistic that this project will greatly contribute to their goal of no blockages due to fats, oils and greases in 2005.

Joint Readiness Training Center and Fort Polk (Fort Polk)

For the establishment of the Children's Environmental Awareness and Health Initiative (CEAHI) program which helps to protect children from environmental health risks and to raise environmental awareness.

The Children's Environmental Awareness and Health Initiative (CEAHI) program provides essential educational opportunities to children and their parents at South Polk Elementary School on Fort Polk's Army installation. Members of the program utilize this effort to teach children and parents about the varied effects of the environment on children's health. The program also provides the students with exposure to various medical professionals that cover many health-related topics such as the hazards of lead, hazards of smoking and second hand smoke, household mold, pests and pesticides, household chemicals and water quality. CEAHI at Fort Polk is setting the trend for military installations across the nation.

Marathon Ashland Petroleum LLC (Garyville)

For demonstrating a commitment to continued voluntary improvement through the implementation of the Property Purchase Program.

This project provided the opportunity for residents of the Lyons community, directly adjacent to the refinery, to sell their homes and property in an advantageous market. The acquisition of the property was mutually beneficial for all parties involved. Relocating the residents and removing the various structures will allow for an increased green belt around the refinery. The residents incurred little to no out-of-pocket expenses.

Additionally, Marathon remained committed to a pressure-free and information-rich environment that allowed the residents to feel comfortable with the process. Marathon hired a community consulting company to assist with this program and offer information about homes that the residents could relocate to and select. Approximately 75% of the residents and property owners have participated in the program. The residents who elected to participate in the program have expressed their appreciation and satisfaction with Marathon and the manner in which the program was implemented.

City of Mandeville, Department of Public Works (Mandeville)

For the development of an Environmental Interpretative Program which describes an energy efficient method for wastewater treatment and provides an educational component that presents unique enrichment opportunities for the community.

The City of Mandeville has a unique and innovative biological wastewater treatment system. The system incorporates a wetland assimilation process wherein aerobic and anaerobic bacteria are used in the degradation process for treating wastewater. The treated water is then discharged into an adjacent wetland, which allows for the growth of needed plant life in the area. This wetland assimilation project provides enhancement to the surrounding Lake Pontchartrain Basin and local wetland. In addition to the wetland assimilation project, this program offers an educational component to teach students about watershed management, wetlands assimilation, conservation and wastewater management. The program's key goal is to instill in students that many processes in nature are interrelated and that people can positively affect and successfully coexist with the environment.

Sasol North America (Westlake)

For implementing an Alcohol Unit Containment System and Sphere which replaced an open ground flare and resulted in an annualized energy savings equivalent to 99,253 million BTUs.

This project was a considerable capital investment that resulted from interaction with the surrounding community. In addition to listening and understanding the community's concerns, Sasol's plant management made the community part of the effort to find the solution. In keeping with their policy of working with the community to address concerns, Sasol identified a new effective means for clearing their reactor system. The result was a $ 3.7 million project consisting of a vent containment system, which replaced the facility's open ground flare. The new system offers higher efficiency and eliminates visible flames, smoke and noise, all of which were major concerns to the neighboring community.

Air Monitoring Special Recognition

Lake Area Industry Alliance (Lake Charles)

For establishing and supporting an ambient air monitoring network for Calcasieu Parish.

The Lake Area Industry Alliance (LAIA) is an association of 24 petrochemical plants and two refineries located in Calcasieu Parish. An air-monitoring network was voluntarily initiated and funded by LAIA to track ambient air quality in the parish over a four-year period. LAIA worked with LDEQ, EPA, and the local community to determine the occurrence and concentrations of target volatile organic compounds (VOCs), dioxins and dioxin-like compounds. The program documented that concentrations of target compounds were generally well within

standards during the four year study period, and it demonstrated the value of providing reliable and accurate information to the community.

Mercury Reduction Special Recognition

Lamp Environmental Industries, Inc. (Hammond)

For successful mercury management operations that recycled 12,175 gallons of mercury debris and devices, 2,869 pounds of metallic mercury, 7,840 pounds of mercury batteries, and 1,943,295 mercury lamps.

LEI manages all types of mercury wastes including elemental mercury, devices and debris, batteries, and specializes in mercury lamp recycling. LEI launched an informative website and issued a monthly newsletter about environmental concerns and the dangers of mercury. Consequently, LEI has steadily increased the volume of mercury it recycles. In 2003, LEI became the only mercury waste recycling facility operating within an ISO 14001 Emergency Management System. In 2004, LEI recycled 12,175 gallons of mercury debris and devices, 2,869 pounds of metallic mercury, and 1,943,295 mercury lamps. Additionally, LEI recycled 7,840 pounds of mercury batteries and 81,213 pounds of alkaline/carbon zinc batteries.

The website reaches a large audience with over 400,000 hits in 2004. LEI also encourages mercury recycling in the community by offering free service to individual residents and the community-at-large in Tangipahoa Parish.

Mercury Reduction Special Recognition

General Motors Corporation (Shreveport)

For a mercury reduction initiative that involved removing and replacing over 4,000 mercury lamps from various sites within the facility.

General Motors Corporation, Shreveport Operations, focuses on conserving resources, reducing pollution and recycling. Through completion of this project, which targeted the facility's vehicle assembly area, air supply houses, paint shop, powerhouse and power substations, GM Shreveport reduced the amount of waste to be handled, reduced exposure to mercury in the environment and reduced energy use at the plant. This effort was not required by regulations, but remains an expression of General Motor's commitment to environmental principles.

2004 Environmental Leadership Program Certificate of Membership

Is recognized for its commitment to principles of the Louisiana Environmental Leadership Program and pursuit of continuous environmental improvements.

Schering-Plough Animal Health Corporation (Baton Rouge)

Valero St. Charles Refinery (Norco)

Valero Krotz Springs Refinery (Krotz Springs)

Shreveport Red River Utilities, LLC (Shreveport)