

Community SHELL DEER PARK

DEER PARK MANUFACTURING COMPLEX

Environmental & Safety Report Card

Shell's Deer Park Manufacturing Complex is an integral part of the Deer Park community. We are committed to operating this integrated petrochemical facility safely for those who work in the Complex and for our neighbors. We are committed to continuous improvement in our environmental performance. Here, in our second annual "report

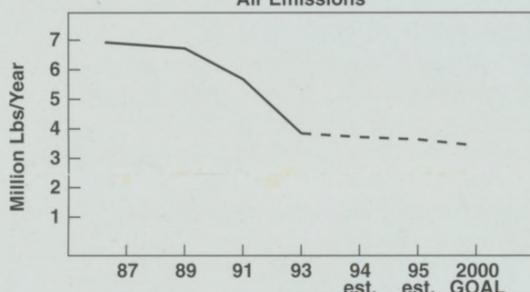
card," is a brief overview of our environmental and safety performance. We want to keep you, our neighbors, aware of our progress.

Steve Reeves
Complex Manager

ENVIRONMENTAL PERFORMANCE

CLEAN INDUSTRIES 2000

Air Emissions

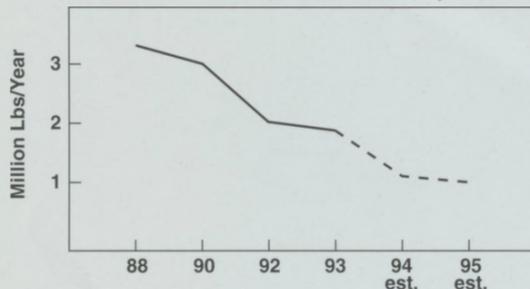


The voluntary Clean Industries 2000 initiative of the Texas Water Commission requires participating manufacturing locations to set goals to reduce emissions by the year 2000 as measured by the EPA's Toxics Release Inventory (TRI).

EPA 33/50 PROGRAM

The U.S. EPA also has a voluntary program targeting selected chemicals for a 50 percent reduction in emissions by 1995, compared to 1988.

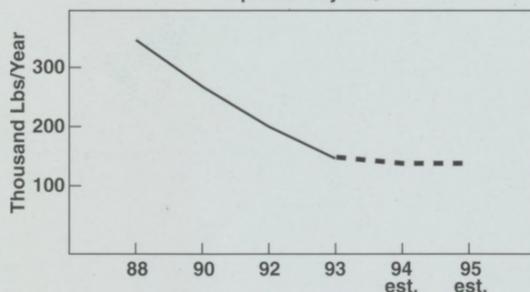
Air Emissions reductions for Benzene, Chromium, MEK, MIBK, Toluene, Xylene



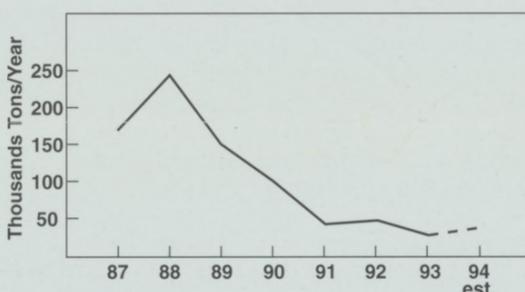
HIGH PRIORITY CHEMICALS

Shell has voluntarily targeted additional chemicals for emissions reduction.

Emissions of Butadiene, Cyclohexane, Epichlorohydrin

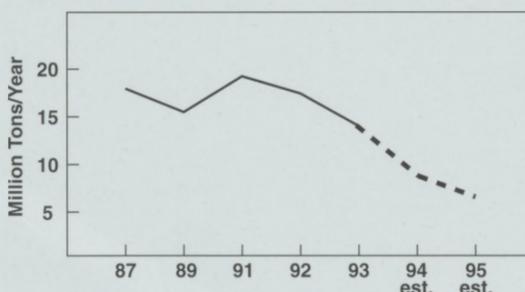


REDUCTION IN HAZARDOUS WASTE GENERATION (EXCLUDING WASTEWATER)



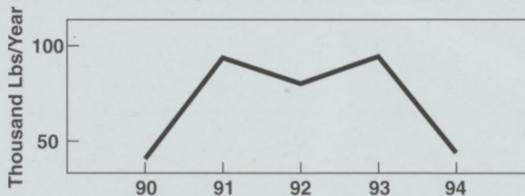
REDUCTION IN HAZARDOUS WASTEWATER GENERATION

Generation of low toxicity wastewater is being reduced, as shown below. Additionally, the wastewater is treated biologically to reduce contaminant levels far below discharge permit requirements.

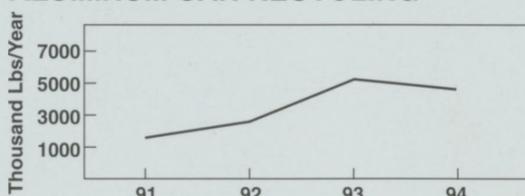


OFFICE PAPER RECYCLING

The reduction in office paper recycling for 1994 reflects Shell Deer Park's continuing efforts to use less office paper.



ALUMINUM CAN RECYCLING

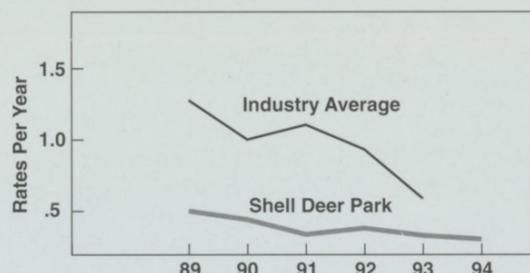


SAFETY PERFORMANCE

The two primary measurements of safety performance are the OSHA "days away incident rate" and the OSHA "total recordable incident rate."

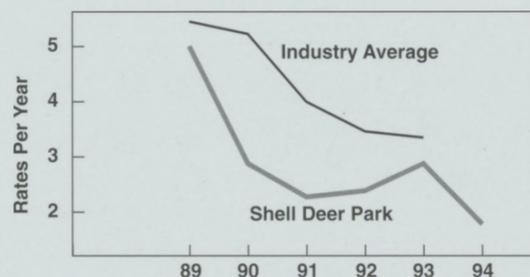
OSHA "DAYS AWAY" INCIDENT RATE

Rate of incidents of lost work days due to occupational injury/illness, per 200,000 hours worked.

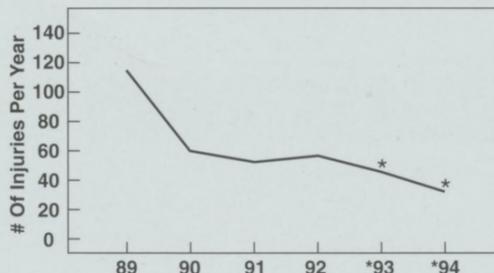


OSHA "TOTAL RECORDABLE" INCIDENT RATE

Rate of occupational injury/illness, beyond first aid treatment, per 200,000 hours worked.



DPMC OSHA Injury/Illness History



* Without outside incidents

POLLUTION
PREVENTION
CODE:



BEING RESPONSIBLE UNDER **Responsible Care®** A Public Commitment

Editor's Note: *Responsible Care® is a public commitment by the Chemical Manufacturer's Association and member companies to improve the industry's health, safety and environmental performance and public perception of their efforts. DPMC is committed to Responsible Care and is similar to the American Petroleum Institute's STEP program of continuous improvement in the responsible management of chemicals.*

In this issue, the Community Shellegram explores the Pollution Prevention Code, which promotes industry efforts to protect the environment by reducing waste generation and releases to the environment. The discussion centers on how Shell Deer Park is meeting its obligations under this code of the Responsible Care initiative.

TOXIC RELEASE INVENTORY (TRI).

This annual report is a public database of some 300 specific toxic chemical release information items from manufacturing facilities across the country. The report also discusses additional waste management and pollution prevention activities. The latest (1993) TRI for Shell DPMC has been shared with the Deer Park Community Advisory Council, a 25-member group of local citizens.

Results. Among the improvements in TRI releases (1992 versus 1993 SARA 313 Emission Data) reported to the EPA was a nearly total (99.6 percent) reduction in underground injection, as the material was shifted to wastewater treatment systems.

Air emissions decreased 14.5 percent due to a number of ongoing projects, including a leak detection and repair program in the Phenol/Acetone department, replacement of Lubricants plant filters, marine loading program, double sealed gasoline additive tanks, and fugitive emissions reductions in various units.

SELF-AUDITS. DPMC and other members of the Chemical Manufacturer's Association (CMA) are required to "self-audit" their programs annually on all six Responsible Care Codes. Shell's 1994 self-audit was submitted to the CMA in August. The Pollution Prevention Code alone contains measurements of 14 separate management practices.

Results. DPMC reported the highest compliance level possible under all 14 practices. This level, RI, Reassessing Management Practice Implementation, indicates the Complex has practices in place that meet the requirements and are auditing those practices periodically to ensure that we continue to honor those commitments. The code is designed to achieve ongoing reductions of all contaminants and pollutants released to the air, water and land.

MISSION, VISION, CORE VALUES.

The commitment to Pollution Prevention is a part of the philosophy that comprises DPMC's annual goals and the new corporate Mission, Vision and Core Values. For instance, the Major Projects Organization completed extensive work in permitting the new coker unit and related facilities, including the construction of a SCOT unit and other controls. That project will result in an overall decrease of 1600 tons of emissions while increasing our conversion capability.

COMMUNICATION ACTIONS.

Information on the actual quantities of wastes generated and DPMC reduction efforts have been reported to employees and the community through the *Community Shellegram*, internal newsletters and other presentations, including Earth Day, the Community Advisory Council, news media, and educator tours.

SOURCE REDUCTION AND WASTE

MINIMIZATION PLAN. This plan has been developed for a five-year period and is being implemented. It's goals are a 40 percent reduction in SARA 313 emissions and a 22 percent reduction in hazardous waste production from 1987 to 1997, (see progress charts), the same goals as that for Clean Texas 2000.

Examples of source reduction projects are the enhanced fugitive emissions leak detection and repair programs, installation of a paint waste solvent to reclaim and reuse waste solvents from paints and thinners; and separating and recycling oil contained in tank bottoms sludges during tank clean-out.

MONITORING ACTIONS. DPMC, along with three other companies, established a monitoring station to measure air quality of Deer Park. The station measures what compounds and how much of them are present, and trends present in the air. The results are shared with local communities and government agencies.

SPILL PREVENTION ACTIONS.

Measures have been in place for several years to limit or avoid spills. Tank farm dike draining requirements focus on avoiding draining spills to the treatment facilities.

ENVIRONMENTAL AWARENESS

PROGRAM. This program was launched in 1992 to focus on ensuring that employees coming into contact with releases and spills

How to reach Shell Deer Park

246-6247 Daytime calls
(Community Relations)

246-7600 24-hour calls
(Community Hotline)



Responsible Care, through the Chemical Manufacturer's Association, is a continuing effort to improve the industry's responsible management of chemicals. STEP, through the American Petroleum Institute, addresses public concerns by improving our industry's environmental health and safety performance.

Community
SHELLEGRAM 

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Complex
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Deer Park, Texas 77536

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