

CASE SUMMARY

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Dayco

DAYCO PRODUCTS LLC
Eldora, Iowa (Hardin County)

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The Company

Dayco Products LLC is owned by Mark IV Industries, a publicly traded company with over 15,000 employees nationwide. Facility operations include manufacturing of commercial and industrial hose fittings and connectors.

Project Background

The Environmental Management System (EMS) for Dayco Products was based on a draft of the parent company, Mark IV Industries. The draft was made site specific to Dayco Eldora by developing a policy statement, stakeholder identification, Environmental Management Program Manual, instructions, and recycling logs. The main concentration of the project was to expand the EMS by documenting all of the waste streams of the processes of the plant, with the primary focus on wastewater.

Incentives to Change

"Dayco Products has always been concerned about our environment. Eldora is a small town in a very scenic area. It is our responsibility to be a good corporate citizen and manage our waste streams as prudently and as efficiently as possible. The opportunity to dovetail our ISO (International Organization of Standardization) 9002-quality program with the ISO 14001 environmental program makes good business sense. A well maintained waste process is not only good for the environment but is financially sound business practice as well." - Marvin Turpen, Environmental Health and Safety (EH&S) Director.

Results

Dayco has made great strides in reducing their wastewater effluent over the past year. In the year 2000, the yearly average was 1,142 ppm, but since adding bioremediation to their facility treatment system, the last reading was less than 200 ppm. To further reduce this number other options were considered. By using their treated wastewater, Dayco can reduce the water and sewer use by nearly 78,000

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gallons per year. If the company uses the wastewater for the parts washers and as mop water, or by introducing microorganisms directly into the parts washers and mop water, the situation will change along with the solution.

Another option that would assist in reducing Dayco's oil discharge lies in their Computer Numerical Control (CNC) coolant use. Utilizing an Oil Removal System already in-house, the equipment should improve coolant life by 50 percent or more. They can also save 213 gallons of coolant, or \$2,720 a year, which represents a 40 percent savings. Processing the dirty coolant through the wastewater treatment system would result in 99 percent of the oil being separated from coolant. This would allow coolant to be reused, which would cut coolant costs substantially.

By finding a vendor for the company's shrink wrap and empty plastic drums, the intern reduced landfill tonnage resulting in cost savings for Dayco. Other projects involved an environmental survey distributed to all employees. The EH&S Director states, "The intern provided us with the EMS foundation to build upon. The databases he set up to document our recycling efforts will work very well. To consolidate, or in some cases document, our different procedures into one working manual will make my job easier and allow future decisions to be based on factual data."

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