



TechSolve

Process > Performance > Profit



www.TechSolve.org



About TechSolve

- 1982 Founded as Not-for-Profit Organization 501(c)(3)
- 1984 Joined Ohio's Edison Center Network
- 1990 Metcut Research, Inc.'s Machinability Data Center joined TechSolve
- 1994 Joined NIST's Mfg Extension Partnership network
- 2000 Changed name from IAMS to TechSolve

Use of Pollution Prevention for Environmental Regulatory Compliance



Two examples of how companies used P2 to help them get back into and remain in compliance with wastewater requirements mandated by local wastewater treatment facilities

Aerospace Supplier

- Small supplier to aerospace OEMS
- Operations include heat treating, brazing, welding, coating, and nondestructive testing
- Employs 75 people

The Issue



- Exceeded nickel concentrations and pH excursions on frequent basis
- Sewer district threatened shut down, jail time
- Consultant prescribed \$300K treatment system

The Solution



Pollution prevention was applied:

- Housekeeping
- Storage
- Process adjustments
- Prescribed small treatment system (\$50K) as insurance

Moral to this Story....



Waste not, want not???

A penny saved is a penny earned???

Window Manufacturer



- Makes window frames for various window assemblers
- Operations include vinyl injection molding, trimming, material handling, mold manufacturing
- Employs 350 people and plans to expand

The Issue

- Excessive zinc levels in wastewater, some pH excursions, issues with COD and BOD
- Company attempted periodically over several years to identify source
- Sewer district assessing \$3K monthly surcharges and NOVs

The Solution



Pollution Prevention was applied:

- Better housekeeping
- Raw material investigation
- Biocide management program
- Looked in sewer

The Moral of this Story Is...

Don't leave any stone (or sewer lid)
unturned



One More Issue



Automotive Supplier



- Small automotive supplier
- Seeking ISO 14001 registration
- Operations included metal cleaning, forming and machining
- Employs 100 workers

The Issue



- TechSolve assisted with implementation of ISO 14001 system and identified waste reduction opportunities
- Environmental issues were not in forefront previously

The Solution



- Reviewed current waste disposal practices for significant aspects and other waste streams
- Found alternative practices for several waste streams

The Moral of this Story Is...

Don't write blank checks!!!

You may be throwing your money down the drain!!



For More Information

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Thank You!!!!