

Combining Chemical and Resource Management

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Successful Integration of Chemical and Resource Management

- **The concept of combining Chemical and Resource Management is not new, and has been implemented to various degrees in many facilities.**
- **Chemical and resource management share common goals of reducing cost, reducing waste, and providing value added services.**
- **Joint implementation has been successful at reducing cost and waste at several facilities.**
- **The degree of success is largely dependent on the scope of work, and the ability of traditional chemical managers to add value.**

Waste Generating Chemical Processes

- **Many waste generating operations are typically included in Chemical Management Programs due to their dependence on chemicals used for the process**
 - ❑ **Wastewater treatment and associated sludge**
 - ❑ **Metalworking fluid reclamation systems**
 - ❑ **Waste Oil from machining and maintenance operations**
 - ❑ **Paint detackification systems**
- **Inclusion of the wastes associated with these operations in a chemical management program improves accountability**
- **Provides an increased opportunity for savings as the chemical treatment affects the quantity and quality of the waste produced by these operations.**
- **Expertise for these applications already exists within chemical management organizations**

Hazardous Waste Handling

- **The collection and consolidation of hazardous waste has been successfully included in Chemical Management**
 - **Chemical Management technicians are generally already well trained in the handling of hazardous materials, spill response, and reporting.**
 - **Hazardous waste collection areas generally coincide with chemical usage areas**
 - **Waste collection activities are easily combined with chemical delivery**
- **Waste consolidation is performed by individuals fully aware of the waste source assuring proper waste segregation.**
- **Information systems for chemical management are generally capable of tracking hazardous wastes and in many cases can be used to prepare necessary reports and manifests**
- **Management of hazardous waste 90 day storage areas can easily be incorporated with the program.**

Hazardous Waste Disposal

- **Disposal of hazardous waste is generally subcontracted by chemical managers**
- **Chemical managers can add value by**
 - **Assisting with the selection and audit of disposal facilities**
 - **Evaluation of alternate disposal technologies**
 - **Modification or segregation of waste streams to reduce land fill of hazardous wastes**
 - **Evaluation of on and off site recycling opportunities**
 - **Scheduling and supervising waste pickups**
 - **Documenting and reporting waste disposal activities and continuous improvement projects**

Non-Hazardous Waste

- **Management of non-hazardous waste has the least overlap with chemical management**
- **Necessary knowledge can be developed in the chemical management community**
- **Additional value can be gained through the inclusion of non-hazardous waste by leveraging the management activities associated with the program**
- **Addition of non-hazardous waste management to chemical management programs is most applicable in small sites that cannot justify separate chemical and resource management programs.**
- **Non-hazardous waste has been included in facilities management programs.**

Combined Chemical and Resource Management Programs

■ **Lansing School System**

- Complete integration of chemical and resource management.

■ **GMCH Kokomo**

- Includes collection and consolidation of hazardous wastes, management of the 90 day storage facility.

■ **GM Baltimore**

- Management of waste collection and storage tanks, direct contracting of waste disposal providers.

■ **Amgen**

- Collection of all laboratory wastes: chemical, biological, and non hazardous.

Why Combine Management Programs ?

- **Programs share overall goals**
 - **Reduced cost**
 - **Compliance**
 - **Sustainability**
 - **Service**
- **Similar skill sets enable leveraged manpower and management resources**
- **Single point of contact for all chemical and waste issues improves service and accountability**