

# Appendix C:

# EMS Objectives & Targets

## Mendota Mental Health Institute Power Plant

The organization establishes environmental objectives and targets in order to implement the environmental policies. Objectives and targets also provide a means for the organization to measure the effectiveness of its environmental efforts and improve the performance of the environmental management system. In establishing environmental objectives, the organization considers:

- Applicable laws and regulations (and requirements of other programs)
- Environmental aspects of the organization's activities and products
- Technological, financial, operational, and other business requirements
- The views of employees and other interested parties

Based on the organization's environmental objectives, targets are established for different functions within the organization and for different areas of the plant. For example, the organization may establish an environmental objective to "reduce waste generation by 10% per year." Based on this objective, different areas of the plant might set targets for reducing individual waste streams in order to ensure that the organization's objective was achieved.

- **Environmental objective:** A site goal that is consistent with the environmental policies and considers significant environmental impacts and applicable laws and regulations. Objectives are quantified wherever practicable.
- **Environmental target:** A detailed performance requirement (quantified wherever practicable) based on an environmental objective. A target should be met in order for the underlying objective to be achieved.

Activities, Products & Services	Impacts	Objectives & Methods	Targets
Fuel delivery	-Tank overfills and spills affect sewers -Delivery truck produces air emissions and dust	-Reduce tank overfills by installing automatic shutoff -Install user instructions at each fueling station -Install automatic tank gauging and have fuel delivered on an as needed basis	-Install automatic shutoff and automatic tank gauging by Jan 2000 -Develop user instructions and post at each fueling station by Aug 99 -Develop guidelines as to when trucks should deliver fuel (late afternoon, early morning, etc.) and how often -Reduce truck visits by 25%
Painting	-VOC emissions -Emptied paint cans disposed of in landfill -Disposal of unused paint	-Assure all paint cans closed tightly -Keep strict inventory of paint -Install controlled exhaust system in paint storage room	-Develop paint inventory documents and place on computer for quick access by Sept 99 -Develop guidelines for proper paint storage and install in paint storage room Sept 99

# Identification of Environmental Objectives & Targets

## Mendota Mental Health Institute- Power Plant

Date: \_\_\_\_\_

Team Member: \_\_\_\_\_

	Activities, Products & Services	Impacts	Objectives & Methods	Targets
Fuel Storage	Fuel delivery	-emissions from truck exhaust -dust from truck travel		
	30,000 gal. fuel tank	-potential for tank and piping leaks to contaminate groundwater -disposal of oil dry in landfills -overfills of tank could contaminate groundwater		
	<u>Notes:</u>			
Coal	Storage	-leachate from coal pile -fugitive dust -runoff discharge to sanitary sewers		
	Receiving	-fugitive dust		
	Preparation for burning	-fugitive dust		
	Transfer to boilers	-fugitive dust		
	<u>Notes:</u>			

## Identification of Environmental Objectives & Targets (Continued)

	Activities, Products & Services	Impacts	Objectives & Methods	Targets
Facility Maintenance (Continued on next page)	Pumps <ul style="list-style-type: none"> <li>• Oil</li> <li>• Gaskets</li> </ul>			
	Painting	-paint fugitive emissions -landfill disposal of waste paint brushes and paint containers		
	Welding			
	Cleaning			
	Insulation maintenance	-air emissions from asbestos removal and disposal		
	Palettes			
	Sewage			
	Wastes removed to storage areas			
	Product storage <ul style="list-style-type: none"> <li>• Location</li> <li>• Inventory control</li> <li>• Practices</li> </ul>	-dangerous reaction of muratic acid with caustic soda		
	Housekeeping	-potential PCB contamination -potential mercury contamination		

## Identification of Environmental Objectives & Targets (Continued)

Activities, Products & Services	Impacts	Objectives & Methods	Targets
<b>Facility Maintenance (Continued from previous page)</b>	Floor cleaning		
	Building physical condition		
	Energy consumption		
<u>Notes:</u>			
<b>Floor Drains</b>	Liquid collection • Oil • Water treatment chemicals	-releases and spills of chemicals in the plant could impact storm and sanitary sewer systems	
	Water collection		
	Maintenance	-landfill disposal of waste from floor drain cleaning	
<u>Notes:</u>			

## Identification of Environmental Objectives & Targets (Continued)

	Activities, Products & Services	Impacts	Objectives & Methods	Targets
<b>Equipment Maintenance</b>	Boiler scale cleanup <ul style="list-style-type: none"> <li>• Chemical use</li> <li>• Scale disposal</li> </ul>	-sanitary sewer discharge of the chemicals and scale removed from boiler		
	Stack cleaning	-fly ash disposal		
	Laboratory equipment			
	Shop rags			
	Coolant	-unanticipated release of the LiBr and R-11		
	Small parts cleaning			
	<u>Notes:</u>			
<b>Water Treatment</b>	Laboratory water testing			
	Chemical storage & dispensing	-spills and releases of drinking water treatment chemicals could affect sanitary sewer		
	Water supply <ul style="list-style-type: none"> <li>• Wells</li> </ul>			
	<u>Notes:</u>			

## Identification of Environmental Objectives & Targets (Continued)

	Activities, Products & Services	Impacts	Objectives & Methods	Targets
<b>Power Generation</b>	Water use			
	Production of heat in the summer			
	Changing pressure . • Smoke escapes			
	Ash • Fly ash • Bottom ash			
	Stack Emissions	-emissions impact the environment by contributing to local and regional air quality problems		
	Back-up generators	-emissions impact the environment by contributing to local and regional air quality problems		
	Noise			
	Solid waste			
	<u>Notes:</u>			

## Identification of Environmental Objectives & Targets (Continued)

Activities, Products & Services	Impacts	Objectives & Methods	Targets
MSDS			
Waste inventory	-extended periods of waste storage and necessity for increased waste storage space increases the risk of spills		
Product inventory <ul style="list-style-type: none"> <li>• Lubricants</li> <li>• Cleaners</li> <li>• Rags</li> </ul>			
Training			
Maintenance record			
Disposal & recycling			
Waste manifest/receipt			
<p><u>Notes:</u></p>			