

# Pollution Prevention Opportunity Assessment (PPOA) Methodology



## Setting Your Installation Up For Environmental Success

Strategies and Considerations for Effective  
P2 Planning and Implementation

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# Pollution Prevention Opportunity Assessment (PPOA) Methodology



- P2 Planning
- Assessing Opportunities
- Data Collection and Reporting
- Communication
- P2 Hierarchy
- Targets and Objectives
- Aspects and Impacts
- Process Flow Diagrams
- Recommending Alternatives
- Feasibility Analysis
- P2 Initiatives
- Proactive Approach to Achieving Compliance Through P2

# P2 Planning



- Assigned Duties and Responsibilities
- Based on Management and Environmental Goals
- Baseline Assessment of Waste Streams and Compliance Sites
- P2 Opportunity Assessment
- Prioritized Plan for Project Implementation
- Funding Scheme
- Documentation of Performance
- Periodic and Frequent Updates
- Management and Command Support
- Integration Strategy

# P2 Opportunity Assessment



## Basis/Justification for P2 Plan

- Prioritize and Screen Efforts to Execute the P2 Program
- Means to Address Compliance Burden through preventive measures
- Facilitates Reporting and Updating
- Demonstrates Feasible Alternatives to Pollution Generation



# Data Collection and Reporting



- Accurate and Complete Data is Essential to Good Information.
- Good Information is the Key Knowledge and Wisdom.
- Knowledge and Wisdom are essential to making good decisions and planning.

# Communication



- Sharing Success Stories, Lessons Learned, and Good Ideas
- Websites.
- Technology Transfer.
- Working Groups.
- Documenting Performance.
- Reporting.

# P2 Hierarchy



- **Source Reduction**
  - **Recycling and Reuse**
    - **Treatment**
      - **Disposal**

# Targets and Objectives



- Overall GOALS are based on published and otherwise applicable MoMs, agency directives, Federal/State regulations.
- Specific OBJECTIVES are based on locally generated compliance waste stream data
- Detailed background knowledge:
  - Installation
  - Operations
  - Processes

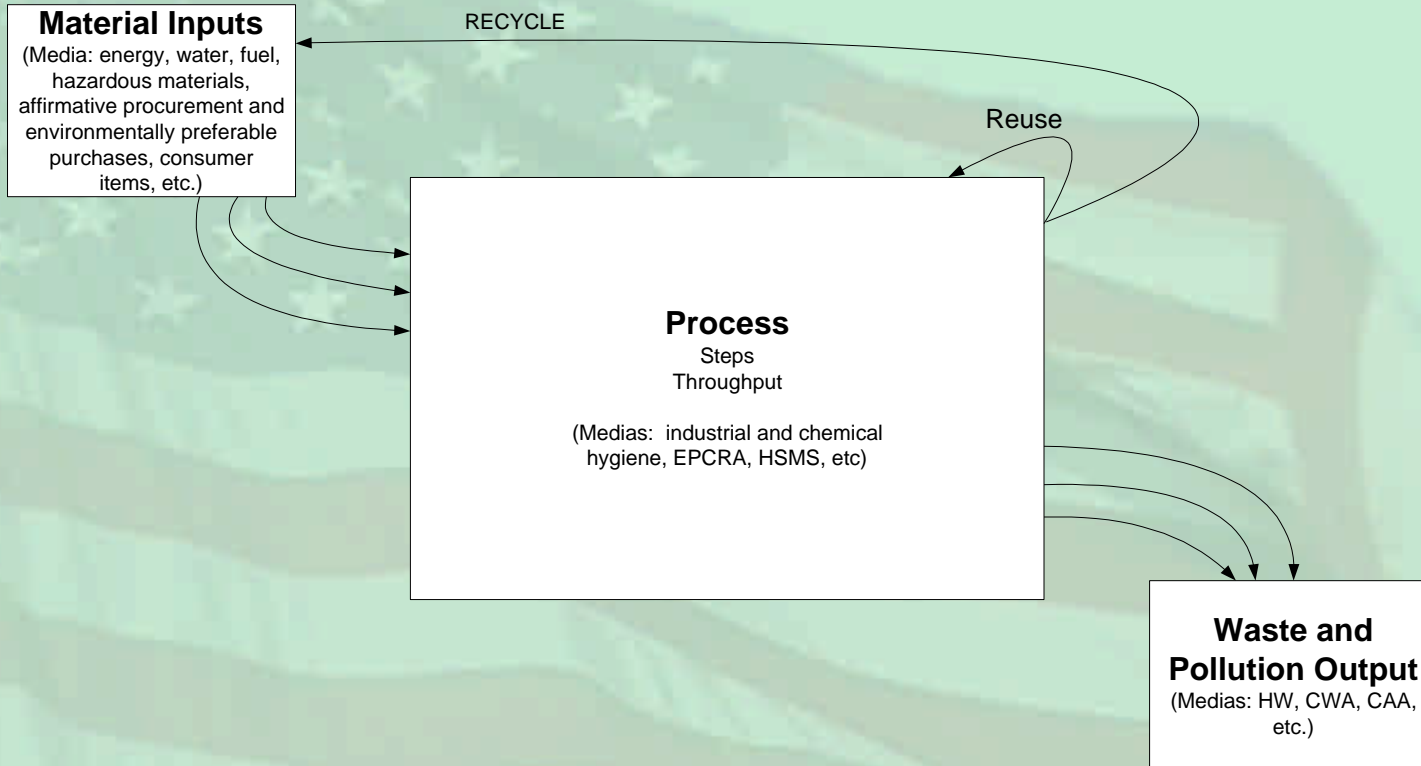


# Aspects and Impacts



- Compliance Medias
  - Input
  - Process & Throughput
  - Output
- Compliance Site Inventory
  - Location – Geographically
  - Process – Pollution Generation
  - Ownership – Responsible Unit/Activity
- Process/Program Specific Data
  - Material Inputs – Cost, Quantity
  - Production – Labor, Time, Cost
  - Waste – Cost, Quantity

# P2 Process Flow Diagram



# Recommending Alternatives



Based on experience, domain knowledge, command interest, and professional “hunches.” Requires varied and specific expertise:

- Organization Personalities
- Mission Operations – PM/CM Requirements
  - weapon systems
  - ranges and training
- Installation Management Activities
  - supply and logistics
  - facilities, equipment, vehicle, weapons maintenance
  - medical activities
  - contracting and administration
  - energy production and distribution
  - waste management
- Environmental Media
- Financial Analysis
- Chemistry and Toxicity
- Regulatory Implications
- etc...

# Feasibility Analysis



- **Description Targeted Process and Detailed Flow Diagram**
  - Current Waste Generation
  - Current Operational Parameters
  - Current Material Consumption Rates
- **Narrative Qualification of Alternative(s)**
- **Quantitative Feasibility Analysis**
  - Technical Feasibility
  - Environmental Feasibility
  - Economic Feasibility



# P2 Initiatives



- “Finalized” P2 Opportunities.
- Technically the “result” of PPOA.
- Initiatives = Real Projects :
  - Planned
  - Funded and Resourced
  - Responsible POC
  - Data to Document Performance
  - Evidence of Effectiveness
  - Future Success Story

# ProActive Approach to Achieving Compliance Through P2

