



Using Computer-Aided Drafting (CAD) to Enhance Environmental Performance

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WSU Maps and Databases

- PCB (TSCA and Washington DW)
- SPCC (Spill Prevention Control and Countermeasure)
- EPCRA (Emergency Planning and Community Right-to-Know Act)
- MTCA (Model Toxics Control Act)
- USTs and ASTs
- Emergency Response



Required Information

- **PCB**
 - Location and volume of all oil filled electrical equipment
 - Analytical results or assumption rule
 - Inspection
 - Storage
 - Disposal

Required Information

- **SPCC**
 - Location and quantity of all oil in containers greater than 42 gallons
 - Containment
 - Possible spills (rate, direction, etc.)
 - Inspection information

Required Information

- **EPCRA**
 - Location of all Environmentally Hazardous Substances meeting threshold planning quantity
 - Location of all materials subject to the Hazard Communication Standard in excess 10,000 pounds

Effective Planning

- **MTCA (WA only)**
 - Location of known and suspected contaminated sites
 - Investigation/remediation status
- **USTs and ASTs**
 - Location of active and closed in place

Emergency Response

- Locations and quantities of certain hazardous materials
- Emergency evacuation routes
- Equipment locations
- WSU boundary

Reasons for Combining Programs into One Database and Mapping System

- Similar requirements
 - Storage locations, volumes, etc.
- Convenience for changes and updates
- Single location information during emergency response

Helpful Information on Database

- Electrical equipment information
- Confined space
- Identification numbers
 - SPCC
 - Electrical

Data Collection and Integration

- Gather electrical mapping information
- Make information and inspection forms
- Collect information
- Enter into database
- Mapping
- Verify information

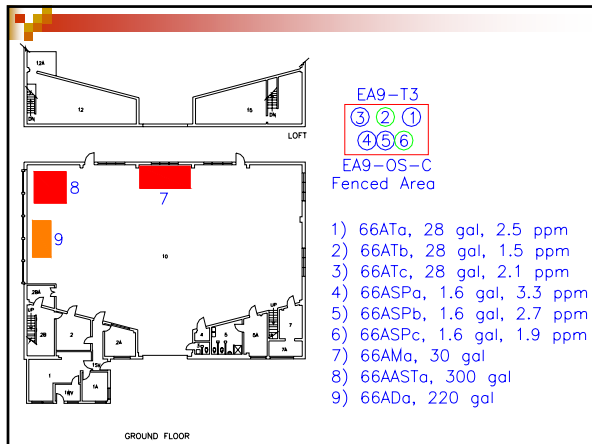
SPCC Inspection Form

Location (Building Name/Number): Markey Services Complex - 096A
Room Number: 0 Tank 1 inside of Shop
Container Type (Drum, AST, UST): Drum/Container
SPCC Identification Number: 10000
Electrical Identification Number: EAAT 1.1
Serial Number: 10000
Volume (Gallons): 20 Gallons
PCB Concentration, if applicable (PPM): NA ppm
Signs or markings: Yes No
If yes, what kind (color and wording): _____
Secondary Containment: Yes No NA
If yes, what kind and dimensions: _____
Visible oil in secondary containment: Yes No NA
Visible oil leakage:
Outside containment Yes No NA
On side/top of holding vessel Yes No NA
Integrity of holding vessel intact: Yes No NA
Integrity of tank supports: Yes No NA
Security: Yes No NA
If yes, what kind (fence, locks, personnel): _____
Drain: Yes No Diameter
If yes, drain plug in place: Yes No
Map locations accurate: Yes No
If no, what are the changes: _____
Comments:

Inspector: _____ Date: _____
Signature: _____

Mapping Contents

- Buildings
- Containers
- Containment
- Container ID number
- Material type and quantity
- Contaminated sites

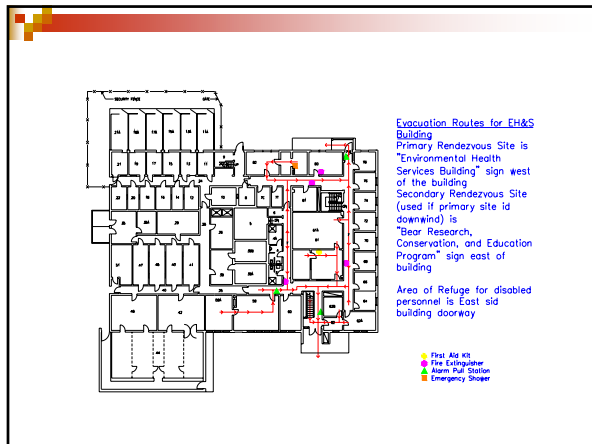


Map and Database Uses

- Inspection dates
- Disposal information
- Analytical information
- Spills or leaks
- Making forms and queries
- Preparing annual documents
- Design/Construction planning

Map and Database Uses

- Locations and kinds of materials for emergency response
- Release/Spill notification
- Emergency evacuation routes



- ### Continuing Efforts
- Linking items from database directly to maps and vice versa
 - Maintaining up-to-date records
 - Making accessible to emergency response teams
 - Update written plans to reference database and maps

- ### Other Technologies
- GPS
 - Digital photos
 - Laser range finder
 - Laptop

