



U.S. Army Research Laboratory
Environment Division in cooperation with
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**PHARMACY OPERATION
AND
HAZARDOUS MATERIAL MANAGEMENT**



Management Theory

- Reduce chemical stockpiling
- Reduce, if not eliminate, use of hazmats
- Up-to-date chemical inventories
- Monitor usages
- Bulk purchasing of common Material
- Approve all chemical purchases

Chemical Inventories... Why?

- Necessary for proper multiple reporting to local/state/federal
- Info. needed by emergency personnel
- Avoid excess stock when ordering

Hazardous Materials Tracking

- EPCRA Reporting
 - Hazardous Chemicals Inventory
 - Toxic Release Inventory
- APG has one automated system for all
 - Hazardous Materials Inventory System (HITS)
 - Barcodes for all hazardous materials

Hazardous Materials Barcoding

- Color code & first digit = year of purchase
- All containers of “danger” and “warning”
- All aerosol / pressurized containers
- No barcodes on small “caution” containers
- Turn-in all 1996 and 1997 vintage chemicals (all over five years old)

Hazardous Materials Barcoding

- Can use HITS to generate a location's HazCom inventory
- APG does annual "validation inventories
- Internal ARL inspection conducted every 6 months
- 50% of ARL line items are checked
- Location errors could be costly

Hazardous Materials Tracking Log

- Employees initial log at pharmacy issue
 - Transfers out of pharmacy
 - Transfers into individual's lab
- Employees fill out whenever a container is:
 - Emptied
 - Transferred to another room (more than 1 day)
 - Turned in through the HWTS

Pharmacy Theory

- Minimize hazardous materials (and cost)
- Reduce HW disposal cost
- Provide customer easy access to supplies, materials, & MSDSs
- Assist with ordering
 - chemicals & gas cylinders (lecture to dewer size)
 - laboratory supplies

Available Items

- Thousands of chemicals
- Compressed gases
- Glassware of all sorts
- Signs & PPE
- Inspection tags, HW tags
- Variety of forms
- MSDS's



QUESTIONS?