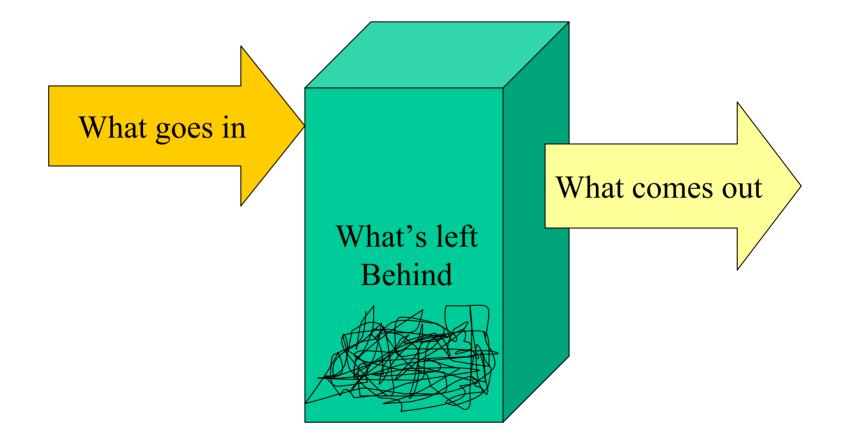
Black Box Exercises

The Black Box Approach



Examine the Unit as a Black Box

- What does it look like?
- What does it do?
- How does it do it?
 - What design features allow it to do its job?
 - How is it operated?

Examine the Unit as a Black Box (cont'd)

• Are there design or operating features that would be of special interest in the permitting of the unit?

What Goes Into the Unit?

- Waste streams
- Containers
- Process gases or liquids
- Energy inputs
- Others

What Comes Out of the Unit?

- Product of treatment
 - Shredded metal
 - Emissions plume
- Other process emissions
 - Drained contents of the treated containers
 - Ejecta/fallout
- Leaks and fugitive emissions
- Other

What's Left Behind?

- Process residues
 - Metal scraps or particles
 - Munition casings
 - Waste residues
 - Ash
 - Other

Consider Impacts to Human Health and the Environment

- Input streams
- Output streams
- Residues

What Exposure Pathways are Important?

- Soil
- Surface water
- Air
- Ground water