

4.7.2 Design and Construction

The applicant for a Subpart X permit must provide detailed information about the design and construction of the unit. A detailed description of the unit being used or proposed for use must be provided in the Subpart X permit application. The information required is more detailed than that required in the general description portion of the permit application. A description of the unit that is sufficiently detailed should provide all the information required to evaluate adequately the potential affect of the unit on the environment, particularly surface and ground water. In addition, the need for monitoring, and the types of monitoring required, will depend partly on the characteristics and design features of the unit. Where appropriate, information required for an OB unit might include:

- Descriptions of the physical characteristics, construction materials, and dimensions of each device, and appurtenance uses at the unit

- Engineering drawings
- Specifications for liners within or below the device
- A description of leak detection equipment
- Descriptions of methods to control runoff and runoff
- A description of procedures to control releases of PEP ashes and residues during and after OB operations
- A description of methods to control deterioration and maintain the integrity of fabricated devices
- A description of measures to prevent accumulation of precipitation in the unit (for example, a precipitation cover) and procedures for handling any accumulation of precipitation in fabricated devices
- A plan for managing ash and residue
- A construction quality assurance plan