

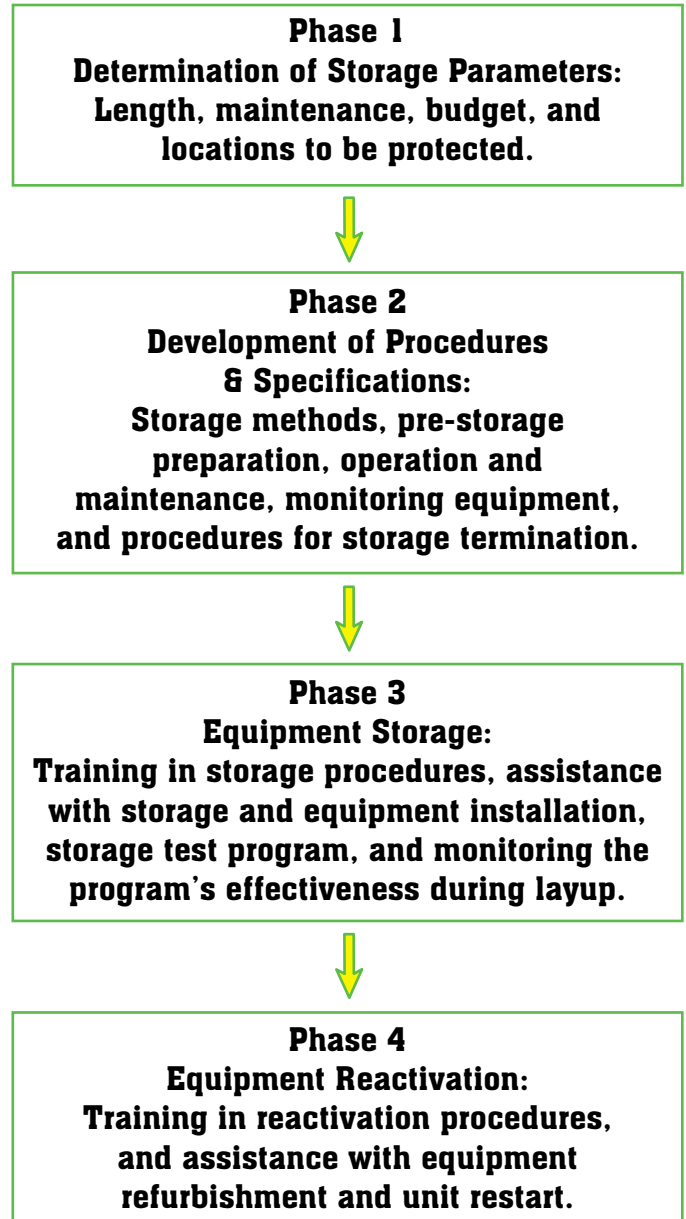
Layup and Storage of Plant Equipment

Layup and storage of plant equipment is a common occurrence in the electric utility industry. These layup periods can be as short as a few months (for units used only during the peak season), to an indefinite length of time (for mothballed units). Unfortunately, improperly stored units can be damaged in a variety of ways, such as freezing, under-deposit corrosion, thermal shock, stress corrosion cracking, oxygen pitting, and microbiologically-induced corrosion. This damage can be avoided by using layup and storage engineering services from Aptech Engineering Services, Inc. (APTECH).

Some of the key considerations that we take into account in a layup and storage program include the following:

- Dry vs. Wet Storage
- Chemistry of Storage Media
- Environmental Permits
- Maintaining Current Boiler Permits
- Length of Storage
- Extent of Required Protection
- Freeze Protection
- Cost
- Available Maintenance Resources During Storage
- Reactivation Method

We recommend a “phased” approach to carrying out a layup program:



Our procedures and specifications cover all plant equipment, including the boiler, turbine, generator, fans, emissions control, motors, I&C, piping, heat exchangers, pumps, and switch gear.

Let our knowledge and experience in layup and storage help ensure that your inactivated plant equipment “comes back to life” when you need it to meet future generating needs. Please contact APTECH for more information.

Aptech Engineering Services, Inc.

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