
DIVISION 33 – UTILITIES

33 6000 HYDRONIC AND STEAM ENERGY UTILITIES

33 6300 Steam Energy Distribution

33 6305 Tunnels

- A. Hard hats and flashlights shall be considered minimum required PPE for entry.
- B. Individuals shall not enter the tunnel alone – use the buddy system.
- C. All penetrations to the wall of the tunnels require prior approval from the Director of Plant Engineering and Planning and the Director of Energy and Utilities.
- D. All tunnel penetrations shall be in the middle one third of the side wall of the tunnel and properly sealed. Any exceptions to this requirement shall require structural analysis by a professional engineer.
- E. All abandoned holes to the tunnels shall be plugged and sealed to eliminate water penetration.
- F. The tunnels are to support the installation and maintenance of steam, condensate, air, IT and telecom systems. Gas, water, power, storm and sanitary lines shall not be installed in the tunnels unless approved in writing by the Director of Energy and Utilities.
- G. It is recommended that any team planning to add, modify, rearrange or demolish utilities in the tunnel contact the Director of Energy and Utilities during the planning stage to assure the concept is supported and avoid unnecessary rework.
- H. Any team planning to add, modify, rearrange or demolish utilities in the tunnel shall complete a **Utility Tunnel Work Form** and obtain the necessary signatures. The exception to this requirement is like for like replacement of system components such as valves.

33 6306 Abandoned Utilities in the Tunnels

- A. All abandoned utilities shall be removed from the tunnel when the new / replacement system is installed.
 - a. Exceptions must be approved in writing by the Director of Energy and Utilities. To assure utilities that have been abandoned in place are easily identifiable the following requirement shall be met.
 - i. The utility shall be disconnected at each end to support future efforts to trace and/or remove the utility.
 - ii. The utility shall be labeled every 20 feet as follows:
 - Utility:
 - Date Abandoned:
 - Project Contact:

For Example

Utility: 4" Steam Line
Date Abandoned: May 3, 2009
Project Contact: Linda Slater

33 6307 TUNNEL HEIGHT

- A. The minimum height of all new tunnels shall be six (6) feet, six (6) inches.

END OF SECTION

DOCUMENT CONTROL PAGE:

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