

Installing UPP Pipe Within An Existing Pipe Chase/Duct

Prepare the site in advance by closing or restricting access to the work area. All equipment should be checked to ensure that it is in operational condition.

During any modification or repair work to UPP pipework, the safety of on-site personnel is paramount and all national, regional, and local health and safety codes should always be adhered to and must take precedence over any conflicting instructions below.

1. Switch off – shut down submersible pump and dispenser in work area.
2. Lock out and tag out electrical circuit breakers– or remove fuses to isolate connection to pumps and dispensers.
3. Prepare to empty product into an approved sealable containment vessel.
4. Operate the hose of the product dispenser closest to the underground storage tank to release pipeline pressure and empty product into container. Continue this process until no further liquid petroleum is discharged.
5. Check the sump where the repair is to be made with an O₂ meter and record the presence of sufficient Oxygen (~21% O₂) before any personnel enter the sump. Air exchange if necessary.
6. Isolate the submersible pump by closing the isolation valve (ball valve), if available.
7. Disconnect the product supply line at the tank sump, allowing for any residual petroleum liquid contained within the product line to flow out into the approved sealable containment vessel.
8. Open shear valve access ports of the affected lines to allow the petroleum liquid to drain down to the tank sump.
9. Shut (close) all the shear valve access ports once no further fuel flows out of the product line.
10. Installations that do not maintain pitch to the turbine sump may require the line to be “blown back” using an inert gas to remove petroleum product from the lines.
11. The sump air supply should be exchanged until the O₂ meter records the presence of sufficient Oxygen (~21% O₂) before any personnel re-enter the sump.
12. Remove the petroleum liquid containment vessel from the tank sump.
13. Flush existing fuel lines using inert gas (Nitrogen or Helium).
14. Disconnect existing pipe and remove from site.
15. Thoroughly flush existing duct using a mixture of non-foaming soap and water. Complete this action at least twice.
16. Bundle together several oil absorbent towels (i.e. Sorbent pads) and pull them through the entire length of the existing ducting several times until all traces of hydrocarbons are removed. Be sure to wipe all areas inside of the ducting.
17. Pull new UPP pipe through clean ducting.
18. Complete the UPP pipe installation by following all applicable steps pertaining to installation of UPP components, electrofusion welding guidelines, and testing requirements. Refer to UPP installation and welding documentation for complete information.
19. All contaminated product and materials generated during the cleaning process must be disposed of following all state, local and federal guidelines.