




Secondary Contained Pipe Scuff Guard Layer

APT has manufactured direct bury (D) and secondary contained (SC) piping for the petroleum industry since 1992. Since 2001, APT has manufactured all sizes of our SC pipe with a transport layer called the scuff guard layer (see Figure 1). When installing SC pipe, properly cutting back the layers, including the scuff guard layer, is critical to system integrity. The scuff guard layer should be cut back so that it is even to, or just outside of, the sump wall penetration — typically about 9" within dispenser sumps, but it can be more in tank sumps. Properly cutting back the scuff guard layer ensures that entry boots and test boots can seal to the piping jackets.

However, it has come to our attention that some installations were performed with the entry boots and test boots tightened onto the scuff guard layer instead of onto the piping jackets. Installations where boots are not tightened to the piping jacket, as stated in our installation instructions, may experience failure at these penetrations and therefore should be corrected immediately upon discovery. The following procedure outlines a process to remedy these faulty installations that have utilized our SC piping and studded entry boots. For installations using other types of entry boots with our SC pipe, please contact Technical Support for further assistance.

Warning  **Follow all federal, state and local laws governing the installation, testing and inspection of this product and its associated systems. When no other regulations apply, follow NFPA codes 30, 30A and 70 from the National Fire Protection Association. Failure to follow these codes could result in severe injury, death, serious property damage, environmental contamination and/or system degradation.**

Procedure

1. Loosen the band clamps on the STB (Secondary Test Boot) and slide the STB back to the termination fitting. (Figure 1)
2. Loosen the band clamp sealing the entry boot to the pipe.
3. Using a 7/16" socket, remove each of the nuts from the backer plate/stud assembly. (Figure 1)
4. Slide the entry boot towards the termination fitting, past the end of the scuff guard layer.
5. Using a straight-bladed utility knife, insert the blade under the outside scuff guard layer at an angle and make one cut down to the sump wall. Turn the blade and score the scuff guard perpendicular to the pipe at the sump wall. (Figure 2)

Note: Be careful not to cut through the SC jacket. The scuff guard is very thin and only needs to be scored to remove it. Damaging the SC jacket will result in possibly failing an air test.

6. The inner surface of the scuff guard layer consists of a shiny metallic layer. Grasp one side of the scuff guard layer and tear it away from the inner secondary containment jacket.

Note: The proper location of the scuff guard is even with or outside of the sump wall (+/-) 1".

7. Place the entry boot back over the studs.

Note: APT recommends using Bostik 1100 or an equivalent marine grade urethane sealant as a precautionary sealant between the sump wall and the interior entry boot.

8. Add the compression plate and hex nuts to the studs.
9. Using a 7/16" socket, tighten all of the nuts using a cross pattern until the boot is sealed.
10. Tighten the band clamp sealing the entry boot to the secondary jacket.

Note: If you have a closed system, then reattach the secondary test boots at this time.

11. Upon completion, follow all federal, state and local laws governing testing of the integrity of the system.

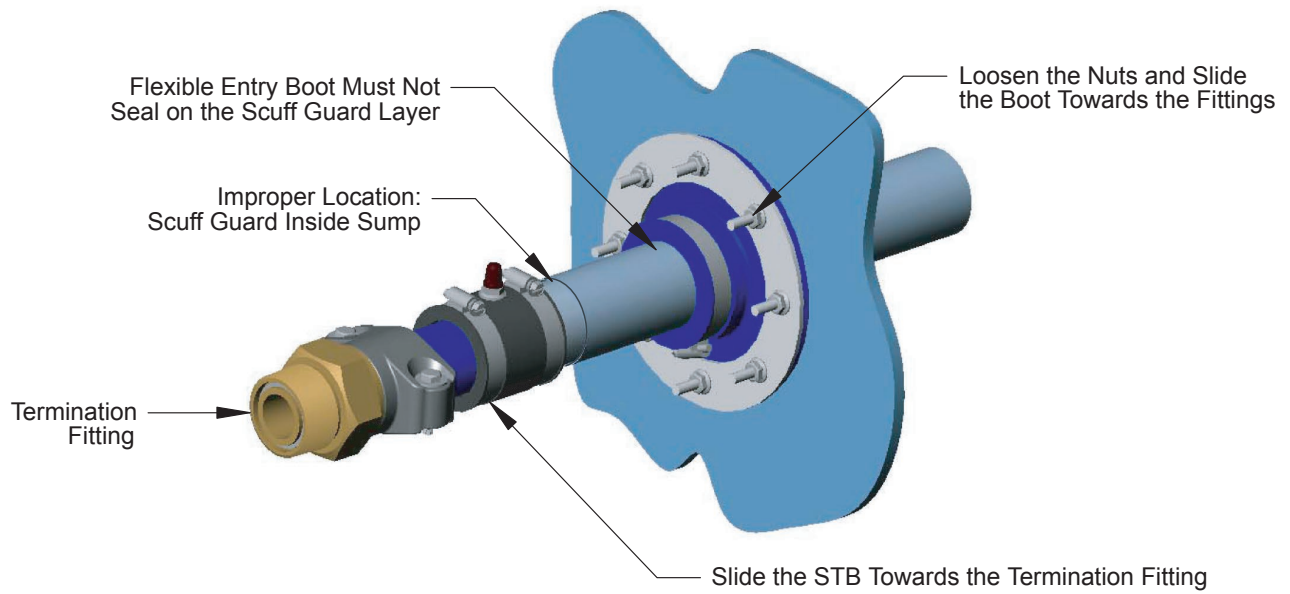


Figure 1 - Improper Scuff Guard Cutback

Note: The termination fitting shown has been disconnected from the piping system for clarity only. There is no need to disconnect piping to complete the cutback.

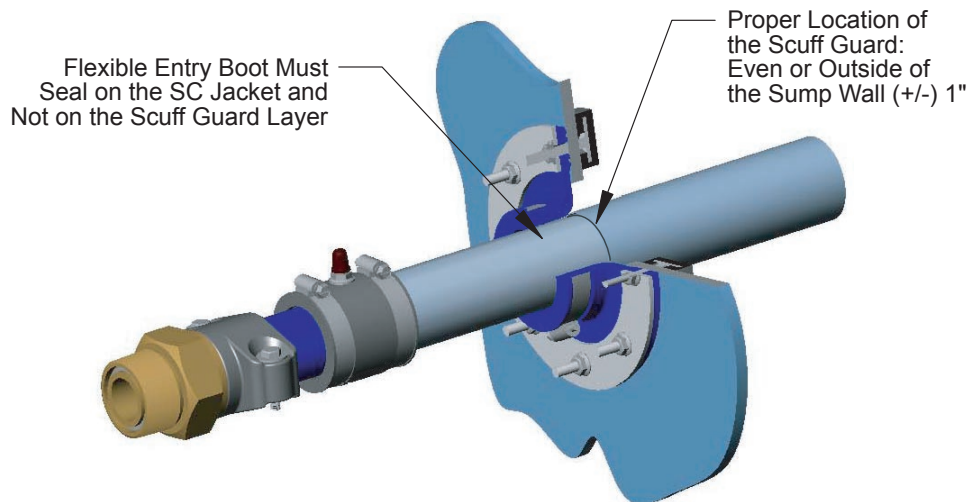


Figure 2 - Correct Scuff Guard Cutback

Note: The entry boot and sump wall are shown cross-sectioned for clarity only.

Please contact Technical Support if we may be of any assistance.

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