

CLEANING THE MERIDIAN DETECTOR

This bulletin describes how to clean the insulator in the Meridian detector. You may need to clean the detector if you find that it has high counts from background.

1. Turn off the Meridian and unplug the detector from the front panel. Remove the screws holding the cable wrap on to the moderator.



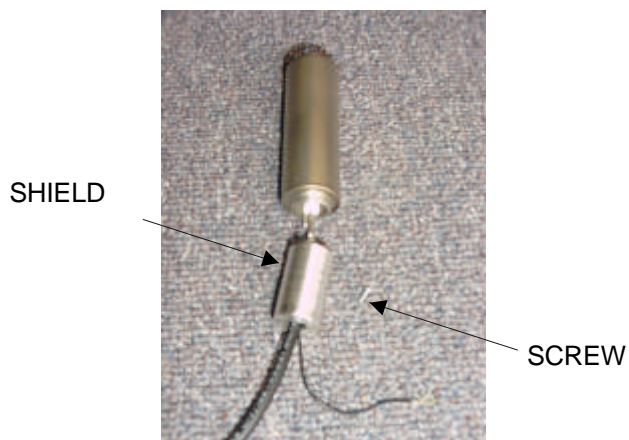
2. Remove the screws, core wrap, poly plug and gently slide out the detector.



Picture of the detector after removal from the moderator.



3. Unscrew the small screw on the end of the detector. Then unscrew the aluminum shield from the detector.



4. The cable is connected to a single pin connector. Carefully pull it off of the detector. Do not crack the white ceramic insulator.



5. Use methanol alcohol to clean the white insulator: put some alcohol on a tissue and wipe the tissue all over the white insulator. Allow alcohol to dry.



6. Replace the cable, shield, screw and plug the detector into the Meridian. Turn the instrument on and look at the rate. It should read zero with no radiation. If it does, then replace the detector in the moderator. If it does not read zero, then re-clean the insulator.