THE PROBLEM:

MONTHLY VIISTA 810 SOURCE PM

CURRENT CLEANING METHOD:
- REMOVE SOURCE LINERS
- SCRUB SOURCE REGION WITH 3M SCOTCHBRITE AND DI WATER
- WIPE WITH DI WATER
- FINAL WIPE WITH IPA

EQUIPMENT PROBLEMS:
- SHADOWS OF DEPOSITION BUILD UP BEHIND SOURCE LINERS
- NOT ABLE TO CLEAN SOURCE REGION EFFECTIVELY IN A TIMELY MANNER
- USING SCOTCHBRITE CAUSES RISK OF LEAVING SODIUM & METAL CONTAMINANTS WITHIN CHAMBER
- USING SCOTCHBRITE AND NOT BEING ABLE TO REMOVE PARTICLES LEADS TO EXTENDED OUTGASSING
- NOT BEING ABLE TO REMOVE IPA RESIDUE EFFECTIVELY LEADS TO EXTENDED OUTGASSING
- USING SCOTCHBRITE CAN LEAD TO HIGH VOLTAGE ARCING ISSUES
- NOT ABLE TO EFFECTIVELY WIPE BEAD-BLASTED PARTS
THE PREPARATION:

SET UP:
- STAGE THE NECESSARY FOAMTEC INTERNATIONAL PARTS
  - Diamond Grit ScrubDISK®
  - Diamond Grit ScrubPAD
  - UltraSOLV® Sponge
  - ErgoWRENCH®
  - ErgoSCRUB®
  - ScrubWRIGHT™ PEN
  - MiraWIPES®
  - UltraSOLV® Foam Wipers
  - Small container of DI Water
- PLACE CONTAINER OF DI WATER INSIDE OF PLASTIC BAG FOR PROTECTION FROM SPILLAGE
- DAMPEN UltraSOLV® SPONGE AND DIAMOND ScrubPAD IN CONTAINER OF DI WATER
  - Squeeze as much moisture as possible out of the Sponge and ScrubPAD when ready to use

THE TECHNIQUE:

STEP 1:
- Wipe an area of the source with UltraSOLV® Sponge and DI water

STEP 2:
- Scrub small section of source with Diamond ScrubPAD

STEP 3:
- Wipe the scrubbed area with UltraSOLV® Sponge
THE TECHNIQUE (cont’d):

STEP 4:
- When appropriate use ergonomic handles
  - ErgoWRENCH® shown here
- Use same technique described above: DAMPEN - SCRUB - WIPE

SCRUBPAD UNLOADING PROCEDURE

STEP 1:
- ScrubPAD loaded with deposition

STEP 2:
- Pull ScrubPAD across UltraSOLV® Sponge

STEP 3:
- Unloaded ScrubPAD
THE TECHNIQUE (cont’d):

UltraSOLV® SPONGE UNLOADING PROCEDURE

STEP 1:
- Rinse UltraSOLV® Sponge in container of DI water

STEP 2:
- Ring-out UltraSOLV® Sponge of excess DI water

Using same technique described above, continue cleaning all areas throughout VIISta source region
- Continue to unload Diamond ScrubPAD and UltraSOLV® Sponge as necessary
THE TECHNIQUE (cont’d):

**ScrubWRIGHT™ PEN APPLICATION**

Using the ScrubWRIGHT™ Pen, gently scrub the area around the beam defining aperture

- Unload the Diamond ScrubBELT® on the ScrubWRIGHT™ PEN in the same manner as described above
- As the ScrubBELT® becomes worn, gently rotate ScrubBELT® along ScrubWRIGHT™ to access a new section of Diamond Grit

**PERFORM FINAL IPA WIPE**

Dampen the Foamtec International MiraWIPE® with IPA and perform a complete final wipe of the VIISTA Source Chamber

- Ensure to continue wiping until MiraWIPES® are no longer removing deposition
THE SOLUTION:

PM COMPLETED IN 1.5 HOURS

FOAMTEC INTERNATIONAL PM SOLUTIONS:
- Able to clean Source Region effectively in a timely manner
- Diamond ScrubPADS reduce sodium & metal contaminants within chamber
- Diamond ScrubPADS do not breakdown, eliminating particles/fibers left within chamber
- MiraWIPES® effectively remove deposition and IPA residue from within chambers
- UltraSOLV® foam wipers provide solution to wiping bead blasted parts
  - Step not shown