



# Technical Bulletin

Place a copy of this bulletin in the front of each Blueprints Manual.  
 Redline drawings as needed and include a TB reference note.  
 Reference TB implementation on site Action Item Box-chart and/or  
 site tool history management log.

**Number:** 107b  
**Date Issued:** 06/09/17  
**Rev B** 08/02/17  
**Expiration Date:** n/a

<b>Subject/Key Words:</b>	<b>Random Conductivity Probe PFA Coating Failures PVDF Coated Probes Available for SC2 and HF Applications</b>			
<b>Classification:</b>	<input checked="" type="checkbox"/> Informational	<input checked="" type="checkbox"/> Mandatory	<input type="checkbox"/> Safety Alert	<input checked="" type="checkbox"/> PM Impact
	<input type="checkbox"/> Warranty Impact	<input type="checkbox"/> Purchase Parts	<input checked="" type="checkbox"/> No Charge For Parts expires ___ / ___ / ___. Reference this TB# when ordering NC parts.	
<b>Applicable Akrion Procedures:</b>	Follow Akrion RMA procedure for all returned parts.			

**Issue:** PFA coating on probes manufactured by Hach®, crack for no apparent reason either when the probe is in use or on the shelf. Affected probes are those with serial numbers between 1608xxxxxx and 1705xxxxxx.

**Symptoms:** High metals in chemistry; Incorrect concentrations (wrong conductivity capture); Improper conductivity readings; or no visible indications

**Solution:** **Akrion Actions:**

1. Continuing to work with the supplier on cracking PFA coating.
2. Working on solution(s) for SC1 applications.
3. Qualifying alternative manufacturers.
4. Customers will be notified as additional solution(s) become available.
5. We will replace Hach® PFA probes purchased through Akrion that fall within the serial number range listed at no charge.
6. We will replace Hach® PFA probes *not* purchased through Akrion that fall within the serial number range listed for a nominal fee.

**Customer Recommendations:**

1. Replace probes in HF and SC2 applications with PVDF version;
  - a. Part number 244133-001 for PVDF sensor housings.
  - b. Part number 244134-001 for TFM sensor housings.
2. Contact [parts@akrionsystems.com](mailto:parts@akrionsystems.com) for an RMA number and instructions for return/exchange of affected PFA probes.
3. If you choose to continue using PFA probes
  - a. Perform SPV (surface photovoltage) tests daily.
  - b. TXRF or ICPMS tests can be done performed in lieu of SPV.
  - c. Carefully inspect new PFA coated probe before installing it.
  - d. During extended tool downtime, DO NOT ALLOW THE PROBE TO BE DRY. Always keep the tank and circulation loop filled with DI water.
4. Or, remove probes from service and spike by time or lot.

If you have technical questions or require more information, please contact Akrion Systems Technical Support Department via e-mail at [techsupport@akrionsystems.com](mailto:techsupport@akrionsystems.com). Authorized service personnel can obtain copies of the latest Akrion Systems procedures and controlled documents from the Akrion Systems Document Control department at [doccontrol@akrionsystems.com](mailto:doccontrol@akrionsystems.com). Customers must direct all inquires to their local Akrion Systems field service representative. (Form QA1656F1AC)