



# 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:** 056  
**Date Issued:** 04/26/06  
**Expiration Date:** 04/26/07

|                                      |  |   |   |                                    |
|--------------------------------------|--|---|---|------------------------------------|
| <b>Subject/Key Words:</b>            | LuCID2 sensor detection issue during slow drain cycle                  |   |   |                                    |
| <b>Classification:</b>               | <input checked="" type="checkbox"/> Informational                      | <input type="checkbox"/> Mandatory      | <input type="checkbox"/> Safety Alert   | <input type="checkbox"/> PM Impact |
|                                      | <input checked="" type="checkbox"/> Warranty Impact                    | <input type="checkbox"/> Purchase Parts | <input type="checkbox"/> No Charge For Parts expires ___/___/___ . Reference this TB# when ordering NC parts. |                                    |
| <b>Applicable Akrion Procedures:</b> | N/A  |   |   |                                    |
| <b>Parts/Reference Documents:</b>    | 229692-005 – Sparger Plate Assembly<br>229693-005 – PVDF Sparger Plate |   |   |                                    |
| <b>Attachments:</b>                  | N/A  |   |   |                                    |

**Issue:** Due to the location of the sparger plate in 200mm Chem. Inject LuCID2 Dryers, the low level capacitance sensor may falsely detect liquid when the tank is empty. The issue occurs from the residual HF forming on the sparger plate and the tank wall.

**Symptoms:** Intermittent “Tank did not drain in programmed time” alarms.  
This pertains to Chem Inject (HF) LuCID2 Dryers Only.

**Test/Validate:** Issue only occurs after an HF cycle is used.

**Solution:** **NOTE:** If no reports of intermittent alarms during the slow drain cycle are occurring then no action is required. For field fixes to tools not under warranty you will need to modify the sparger plate. Warranty tools may require a newly designed sparger plate that compensates for the sensor location.

Perform the following steps to modify the sparger plate.

- Remove the sparger plate from the tank.
- With the sparger plate removed, shave/remove approx. 1/16” of material approx. 3” wide from the front edge of the sparger plate centered in front of the low level sensor.
- Remove the material at a slight angle from top to bottom to create a 1/16” gap at the top and a 1/8” gap at bottom of the plate referenced to the tank wall.
- Once the material is removed from the plate re-install the assembly into the tank.

Testing should be performed using the HF cycle and see if the alarm is repeatable. Verify there are no alarms indicated throughout the slow drain cycle.

If a new sparger plate is required you must order **229693-005**. This number is for the sparger plate only. It does not come with any of the combs or locators. It already has the modified edges to prevent the false sensor readings.

If you have technical questions or require more information, please contact Akrion Technical Support Department via e-mail at [techsupport@akrion.com](mailto:techsupport@akrion.com). Authorized service personnel can obtain copies of the latest Akrion procedures and controlled documents from the Akrion Document Control department at [doccontrol@akrion.com](mailto:doccontrol@akrion.com). Customers must direct all inquires to their local Akrion field service representative. (Form QA1656F1AB)