AKrion   Technical Bulletin

Number:	066
Date Issued:	09/10/07
Expiration Date:	None

Subject/Key Words:	Akrion Automated Wet Stations Software Revision 6.05 - Critical Software Correction Notice: Lid Position Verification During Robot "Dip" Moves: Potential for Robot Crash into Auto Lid. **Note: This notice does not apply to tools running software revision 6.05.022 or higher.**
Classification:	■ Informational ☐ Mandatory ■ Safety Alert ☐ PM Impact
	☐ Warranty Impact ☐ Purchase Parts ☐ No Charge For Parts expires ___ / ___/___. Reference this TB# when ordering NC parts.
Parts/Reference Documents:	Software History Report - Rev 6.05.022 Correction

Issue/Symptoms: Wet stations having lidded tanks can be at risk for robot/lid collisions when running recipes that use dip moves.

A dip move is a recipe step with a very brief process time. The robot never drops off product into the tank. Instead the robot stays down in the tank with the product for the brief process time and then moves directly to the next tank in the recipe. .

Because the dip move is very brief, the scheduler must begin to prep the tank used **after** the dip move well in advance. If this tank has a lid, a problem can occur if the robot must cross over it on its way to perform the dip move.

Sample Problem Scenario:
The wet station from left to right has tanks 1, 2, 3, 4, and 5 followed by an EEWD tank. Tank 5 has a lid. The robot is currently at the EEWD tank. The recipe calls for the robot to pick up product in Tank 2, move to Tank 4 for a "dip move" and then move the product to Tank 5.

Because Tank 4 is a "dip move" the scheduler begins to prep Tank 5 well in advance to accept product. One of the first steps may be to open the Tank 5 lid. Because the robot is at the EEWD station to the right of Tank 5 it must cross-over Tank 5 to reach Tank 2. This is where the problem occurs. In software prior to 6.05.022 the software was not properly verifying the status of the lid on Tank 5 before commencing robot movement.

Inspection   Review your recipe and test recipe configurations to determine if your wet station is at risk when running a "Dip" process as explained above.

Solution: If this issue correction applies to your tool, or if you have specific questions understanding the application, contact Akrion Software engineering to review and/or issue a software update.