TB010621-001: 4850-1 FDA Trolley

Usage of the 4850 FDA Trolley in Harsh/Corrosive Environment

This Technical Bulletin affects the following Reliance products:

- 4850-1

The 4850-1 FDA Trolley was designed and manufactured with materials and processes that allow it to be used in food production sites. In such locations, the powder coating finish applied to the aluminum trolley body sideplates provide protection against corrosion when exposed to the high pressure/high temperature cleaning procedures required in such facilities.

In harsh or corrosive environments (chemical production facilities, potash/saline manufacturing, etc.), the protective powder coating could be damaged or chipped, exposing the aluminum sideplate material. Once exposed, over time, a corrosion interaction may occur between the aluminum of the trolley body sideplates and the stainless steel threaded rod affecting the strength of the sideplates. Such corrosion may potentially be more difficult to detect due to the remaining powder coat finish covering the sideplates.

Recommendations for Use in Harsh/Corrosive Environments

For trolleys installed and used in harsh environments, an enhanced inspection schedule shall be implemented. Rather than the standard minimum annual inspection for regular environments, at a minimum inspections should be conducted and fully documented every six months. In extreme environments, the frequency of inspections should be increased further to documented inspections every 3 months. Products failing any inspection must be removed from service immediately to prevent serious injury or death.

Key Inspection Criteria when Examining the 4850-1 FDA Trolley

In addition to the inspection points and criteria listed in the User Manual for the 4850-1 FDA Trolley, for those trolleys installed in harsh/corrosive environments, the following key items must be inspected and assessed:

1. The powder coating applied and covering the two trolley body sideplates is fully present.
2. The powder coating finish is not cracked, chipped, or abraded off of the trolley body sideplate leaving the underlying aluminum exposed.
3. There are no areas of the powder coat finish that is bulging irregularly or “bubbled”, indicating a corrosive reaction underneath the coating.
4. Any areas of effervescence corrosion between the trolley body sideplates and the stainless steel hardware.

Any trolley that does not meet the above listed criteria, in addition to the standard inspection criteria listed in the User Inspection manual for the 4850-1 FDA Trolley should be removed from service immediately and marked “UNUSABLE”. Failure to do so could result in serious injury or death.