

Foreign Object Elimination – QN: SA

Date

01/31/2014

PEARSON ELECTRONICS Quality Note SA

Classifying FOD

- **Types of FOD**
 - **Safety Wire**
 - **Small hardware, e.g., nuts & bolts**
 - **Solder Splash or balls**
 - **Moisture**
 - **Tape or Tape Residue**
 - **Flakes or shards of metal**
 - **Nonmetallic items**
 - **Electrostatic Discharge (ESD) occurrences**
 - **Magnetic Fields**
 - **Contaminated gases (oil, moisture, etc.)**
 - **Dust**
 - **Rust, corrosion**
 - **Human spittle or oils from skin**
 - **Bubbles or blisters**

FOD is anything that affects your product, e.g., loose hardware, solder splash, tape residue, rust and dust particles etc.

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Material Handling

- **FOD control techniques**
 - **Ensure packaging containers and products are free of FOD before packaging, shipment or transport**
 - **Ensure protective and packaging materials adequately resist penetration via tearing, parting, or piercing from forces either external or internal during normal handling operations**
 - **Ensure specific instructions are provided for packaging/unpacking/handling materials**
 - **Ensure that transportation support equipment is free of foreign objects and is inspected before movement**

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Classifying FOD Findings

- **True FOD versus poor housekeeping**
 - **Finding an item on or in hardware is a true FOD**
 - **Finding a piece of wire in the room or in a tool box drawer is poor housekeeping**
- **Lost or found items**
 - **Lost items or tools are found at lower-level assemblies of final checkout when the unit is rolled for loose objects**

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Reporting FOD Findings

- **Standard report form**
 - **Date of Occurrence**
 - **Name of person who discovered it**
 - **What was found or lost**
 - **Serial Number/Part Number**
 - **Investigation Statement**
 - **Analysis**
 - **Root Cause**
 - **Corrective Action**
 - **FOD point of contact and signature**
 - **Date Closed**

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