

# Soldering and Quality Assurance

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# Soldering Objectives for DUNE

- Continue soldering wires to head boards as before using Sn62Pb36Ag02 formula with no-clean Type 44 rosin (Kester)
- Continue using Metcal soldering stations for precise temperature control
- Maintain a local IPC-qualified trainer to supervise soldering methods and inspect work
- Improve access to work

# Soldering Objectives for DUNE

- Adopt Vapor-Phase reflow soldering methods for CR Boards and G-bias boards to achieve more consistent results with less stress to components.
- Use Wave or Selective Soldering on Samtec (through-hole) connectors installed on CR boards and Adapter boards to eliminate high stresses placed on solder joints

# Soldering Objectives for DUNE

- Maintain a safe, clean, and comfortable work environment with adequate lighting
- Avoid worker fatigue
- Continue rules that prohibit anyone from handling boards at any time without gloves

# Soldering Quality Assurance

- Inspect all work; no self-assessment is allowed
- Record all instances of marginal or inadequate results and take corrective actions
- Maintain equipment properly
- Change soldering tips regularly
- Do not allow the wrong soldering materials to enter the work area
- Do not allow storage of any material in unmarked containers

# Soldering Quality Assurance

- Do not allow the any soldering materials to enter the work area without being labeled
- Any stray pieces of solder shall be discarded
- Do not allow storage of any materials in unmarked containers
- Do not use any materials that are older than their expiration date