

Responses to Nick Vermani's comments on LAT-PS-00635 Tracker SSD Ladder Assembly Procedure. These responses are listed as numbered in Nicks comments.

- A) No Action – the documents are referenced and available to all to review if desired.
- B) The corrections will be made. The durometer testing of polymeric materials is not required. The witness samples only have to be verified for cure, verify non tacky after cure time, as they are non-structural bonds.
- C) No Action – The material out gassing requirements are satisfied for the materials review board and by GSFC. The Tracker and LAT materials lists provide adequate documentation.
- D) No Action – The ESD requirements are properly flowed down to G&A in the procedure.
- E) No Action – The ladders are not transported outside the G&A clean room.
- F) No Action – Personnel training is covered in paragraph 6.1 of the procedure.
- G) No Action – The facilities at G&A are approved, and will be audited during future visits.
- H) The first two sentences will be added to the procedure. The other specifics on the adhesives are in the database. Material usage hazards are the responsibility of G&A.
- I) The database, traveler, is being modified to add the revision number of the procedures used.
- J) The document indicates where the visual inspections and tests will be performed. Inconsistencies between LAT-PS-635 and LAT-TD-914 will be corrected. INFN has clear oversight of G&A. Regular planned visits by SLAC R&QA personnel will be added to the plan.
- K) The process is being revised to add the new materials.
- L) Section 7
 - a) No Action – the type of gloves and coats is the responsibility of G&A.
 - b) The handling of the SSD's is covered in a separate document.
 - c) The paragraph is being revised.
 - d) No Action – The edge bond is non-structural. Only verification of cure, non-tacky witness samples, is required. The adhesive does not need to be vacuum degassed when mixed as the joint is non-structural. The successful completion of the ladder bonding within dimensional tolerances specified verifies the tools.
 - e) No Action – Acceptance/rejection criteria exist and are documented
 - f) Sandro will ask G&A for the wire bonding standard that they use and this reference will be added to the procedure
 - g) The time between completing the wire bonding step and the electrical test will be specified. Robert is looking into this and at this time one day seems reasonable.
 - e) This will be redone adding the new materials.
 - f) The detailed procedure is G&A proprietary. We only specify the acceptance criteria.

- g) The ladders will not be removed from the clean room at G&A – no shipping
- h) We will fill in the missing details.
- i) This is a placeholder and will be filled in when Mipot comes on line.