QUALITY CONTROL MEASURES FOR 8-PACK PHASE-I

QC PLAN
  REQUIREMENTS & SPECIFICATIONS – Verification process
  WAIVERS – Non-compliance, design changes
  SIGNOFF AUTHORITY– Physicist, engineering, manufacturing, QC, safety, etc.

TRAVELLERS
  FABRICATION – QC, Process verification
  RF – Cold test
  VACUUM – Leak check, UHV cleaning, RGA scans
  ELECTRICAL - Continuity, ringing
  SAFETY – Compliance sign-off

SERIALIZATION
  PARTS – Tagged with serial numbers and Part numbers
  ASSEMBLIES - Tagged with serial numbers and Part numbers

REVIEWS
  SUBSYSTEM DESIGN REVIEWS – Action items, trade studied
  SYSTEM DESIGN REVIEWS - Action items, trade studied
  PRE-INSTALLATION REVIEWS - Action items, trade studied, sign-off

TESTS
  LOTS OF MECHANICAL FIT-CHECKS
  COMPONENT TESTING
  PRE-INSTALLATION SUBSYSTEM TESTING
  COMMISSIONING

DOCUMENTATION
  DRAWINGS – SLAC, LLNL, vendor
  LAYOUTS – Assemblies, installation
  RECORDING SERIAL NUMBERS - Assemblies, installation
  PARTS LISTS – description, serial numbers, quantities, status
  MATERIAL CERTS – UHV parts, RF
The contents of a System Design Requirements document

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      3.1.4 System Interfaces
      3.1.5 Major Subsystems
   3.2 System Characteristics and Verification
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      3.2.2 Physical Characteristics
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      3.2.4 Reliability, Availability, Maintainability
   3.3 Design and Construction
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6.0 Revision Record