Recent Structure Differences

Copper Rod (for cells)
- T53VG3/5 is baseline: SLAC Hitachi lot
- T53VG5RA is also baseline: same SLAC Hitachi lot
- T20/T105 uses KEK Hitachi lot
- T53VG3F uses T20/T105 KEK Hitachi lot

Copper Plate (for couplers)
- Lot information not yet available

Fabrication
- T53VG3/5 are baseline: 100% Robertson/Pearson parts, 60 second cell etch
- T53VG5RA is baseline except for 30 second cell etch
- T20/T105 are baseline couplers and KEK cells with 5 second cell etch
- T53VG3F has no baseline parts (100% KEK parts, no cell etching)
- Coupler etching: Details not yet available

All Furnace Operations
- T53VG3/5R are baseline: Large carbon platens at bottom of furnace removed except for one braze
- T20/T105 are also baseline except platens always absent
- T53VG3RA/F: Platens remained in place
  (Platens are very large and rough = Large surface area)

Wet Hydrogen Fire
- T53VG3/5R are baseline: Bubbled hydrogen gas piped into the furnace
- T20/T105 are also baseline
- T53VG3RA/F had the wet gas piped directly into the bore of the structures

Vacuum Can Pre-Baking
- T53VG3/5 are baseline: Cans vacuum-baked prior to use
- T53VG5RA/T53VG3F: Cans baked only 3 days to 480 °C, 1 x 10^{-5} torr pressure
- T20/T105: Cans hydrogen-fired only

Bakeout Station Utilized
- T53VG3/5R are baseline: Baked on Station #4
- T105 is also baseline
- T20 was baked on Station #3
- T53VG3RA/F were baked on Station #3 immediately following rebuild of the station pump

12/6/01 Rev. 2
Vacuum Baking
  T53VG3/5 are baseline: 7 days to reach 10 x 10^{-9} torr, 6 x 10^{-9} ultimate pressure hot
  T53VG5RA/T53VG3F: 8 days to reach 10 x 10^{-9} torr, 10 x 10^{-9} ultimate pressure hot
  T20/T105: 12.6 days to reach 10 x 10^{-9} torr, 10 x 10^{-9} ultimate pressure hot

Termination of Vacuum Baking
  T53VG3/5 are baseline: Cans pinched off to vacuum
  T20/T105 are also baseline: Cans pinched off to vacuum
  T53VG5RA/T53VG3F: Cans leaked to N_2 and air above ambient; pinched off to N_2

In-Situ Bake
  T53VG3/5 are baseline: 92 Hours at 220 °C; 6 x 10^{-7} torr ultimate pressure hot
  T20/T105: 325 Hours at 220 °C; 20 x 10^{-7} torr ultimate pressure hot
  T53VG5RA/T53VG3F: 192 Hours at 220°C; .8 x 10^{-7} torr ultimate pressure hot