High Gradient R&D Coordinating Committee
February 6, 2001

Agenda

1. High Gradient R&D Schedule - (Attached)
   a. Review and Discussion (Burke)

2. Review of "Cleaning" Plans (Cornuelle)

Upcoming: Feb 13 T20/105VG5N Processing (Adolphsen/Ross)
              S20PI Production Plan (Wang)
RF Breakdown Cleaning R&D Review

- Improved Standard Cleaning Process
  - Non-Wetted Particle Counter Purchased and Received
  - Awaiting NT Box

- Variety of Metal Samples for Cornell High Pressure Water Rinsing
  - Coupon Fabrication Complete
  - Copper Coupons Weighed, XPS’d, AFM’d, and Particle-Searched
  - Nb and 304L Coupons Queued Behind Starburst Samples
  - Cornell Confirms No Special Tooling Required

- Cornell Starburst Sample
  - Nickel Initiator Found Using SLAC Auger in Two Sites
  - SEM at 5 kV Confirmed Nickel Plus Silicon Presence
  - SEM of All Starbursts Planned

- Ultra-Pure Water (UPW) Facility at SLAC
  - Damaged Charcoal Canister for RO Protection Replaced
  - Additional Circuit Documentation Being Performed to Preclude Additional Over-Pressurization Events
  - System Will be Run When Fully-Understood and Fail-Safe
    - Sample Chamber Constructed for Initial Testing
    - Sample Chamber for Ultimate Testing Not Defined

- Glow Discharge Cleaning
  - Gas and Metering Valves and Feed-Throughs Ordered and Received
  - Either Existing PEP Chamber or New Schematic for Chamber to be Utilized
  - Obtaining Test Copper Cells
RF Breakdown Cleaning R&D Review

- Megasonics Cleaning
  - Initial Supplier Indicates Task Beyond Them – Suggested Alternative Suppliers

- Overall
  - Planning Visibility Will be Much Improved When T20/T105 Installation Complete
    - PEP II Load Already Down