# TDR Part 1 Section 2.2 Superconducting RF Technology: Development of World-Wide SCRF R&D Infrastructure

#### 1. Cavity

- 1. Inspection Infrastructure and Capabilities
  - 1. Optical Inspection
  - 2. RF tuning
  - 3. Tomography
- 2. Production Facilities
  - 1. EBW/Chemical Processing in EU, Americas, Asia
  - 2. Mechanical Processing

Draft text exists...needs figures, pictures, and updates on Japanese efforts on X-ray (1.1.3) and JLab FE measurements (1.3.5);

- 3. Test Infrastructure and Measurement Techniques Help on Coupler section...
  - 1. VTS
  - 2. HTS
  - 3. 2<sup>nd</sup> Sound
  - 4. Thermometry / Mapping
  - 5. X-ray Monitors
- 4. Remediation Techniques
  - 1. Grinding
  - 2. Laser (?)
  - 3. Tumbling
- 2. Coupler
  - 1. Coupler Conditioning Facility (taken from IDR for the moment...)

## TDR Part 1 Section 2.8 Superconducting RF Technology: R&D toward massproduction and design for manufacture

### 1. Cavity

- 1. Mass Production / Plant Studies
  - 1. EU ETA in early summer? 1 plant, 3yrs, 18000 cavities
  - 2. Americas done, 6 yrs, 3600 cavities
    - 1. Sensitivity studies on yield; technique; qty
    - 2. Material Material Material
  - 3. Asia
    - 1. Cavities..540/yr

### 2. Cryomodule

- 1. Mass Production / Plant Studies
  - 1. EU
  - 2. Americas just done, not checked
    - 1. Update of 2007 study w/new cryomodule costs
  - 3. Asia
    - 1. Cryomodule Assy & Test Layout (J/E)
    - 2. CM Mfr Study (J)
    - 3. Split Quad Study