

FDC Readiness Review Prototype Construction

August 14, 2008– v2.3
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● **Wire Frame Design** (Bill, Brian)

- 1). Review of design.
 - 2). Review of drawings.
 - 3). Review of R&D studies:
 - Load tests.
 - FEA calculations.
 - Mechanical prototypes.
 - IUFC Phase 1 winding.
 - 4). Construction procedures and tooling requirements.
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● **Cathode R&D Planning** (DSC, Chuck)

- 5). Review of FastTrack R&D components and time line.
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● **Cathode Frame Design** (Brian, Bill, Eugene)

- 6). Review of design.
- 7). Review of drawings.
- 8). Tension measurements.
- 9). Tension requirements.
- 10). Flatness measurements.

- 11). Cathode plane construction:
 - QA plans
 - Edge cutting and butt joint alignment
 - Handling procedures
 - Hole cutting
 - In situ tension measurements
 - 12). Mechanical prototypes.
 - 13). Construction procedures and tooling.
 - 14). Ground connections to cathode planes.
 - 15). Sandwich construction.
 - 16). Ground plane design and connections.
 - 17). Rigid flex assemblies.
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● **Assembly Construction** (Tim, Bill, Brian)

- 18). Stack assembly procedures.
 - 19). Required tooling.
 - 20). Through package attachments.
 - 21). Cooling system connections.
 - 22). Survey plans and attachments.
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