

Schedule for Single Tile Facility

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Sub-Tasks

- ▶ Lab Infrastructure
 - Water, vacuum, gas, hoods, cleaning stations, ceiling, paint, ...
- ▶ Vacuum chambers & transport
- ▶ Tile Base & Internals Station – baking, scrubbing, testing(?)
- ▶ Top Window Preparation Station
- ▶ Photocathode Evaporation Station
- ▶ Sealing Station



Lab Infrastructure

- ▶ Purified Water – Done
- ▶ Ceiling – in progress complete during Dec. 2011
- ▶ Hood & Wall Partition Removal – in preparation, complete by early Jan. 2012
- ▶ Cable trays – Jan. 2012
- ▶ Gas lines and PVC rough vacuum lines
 - Installation in labs: Jan–Mar 2012
 - Service floor gas manifold & cylinder storage: Jan–Feb 2012
- ▶ Cleaning stations
 - Ultrasonic: Feb 2012
 - Dry nitrogen: Mar 2012
- ▶ Rough vacuum
 - Spec & order pump – Jan 2012
- ▶ Desiccator storage – Installation Feb/Mar 2012
- ▶ Electrical
 - Specify 220V, 480V power needs – Feb 2012
 - Modifications – Feb–Mar 2012



Vacuum Chambers & Transport

- ▶ Vacuum Chamber Design – in progress
 - Request for quotes – Jan 2012
 - Let purchase requisition – Feb 2012
 - Delivery & installation – Apr/May 2012
 - Incorporation of processing stations – May–Jul 2012
 - Commissioning – Jun–Aug 2012
- ▶ Transport Arms
 - Spec – Dec 2011
 - Let purchase req. – Jan 2012
- ▶ Gate Valves – Purchase req. routed Dec 2, 2011



Tile Base & Internals Station

- ▶ Design – Jan/Feb 2012
- ▶ Quotes for parts – Mar 2012
- ▶ Fabricate in house parts – Mar–Apr 2012
- ▶ Scrubber, if necessary
 - Design – Feb–Apr 2012
 - Quotes for parts – May 2012
 - Acquire hardware – Jun–Jul 2012
 - Integration – Aug 2012



Top Window Preparation Station

- ▶ Design – late Jan – Feb 2012
- ▶ Quote for parts – Mar 2012
- ▶ Purchase requisition & fabricate in house components – Mar/Apr 2012
- ▶ Integration – May 2012
- ▶ Plasma cleaning ??? (\$\$\$)
 - Possible to use new SPEC oxygen system?



Photocathode Evaporation Station

- ▶ Options:
 - 1st tile made with bare top window – UV excitation?
 - 1st tile made with aluminum photocathode – UV excitation?
 - 1st tile made with bialkali (K_2CsSb)
- ▶ Shoot 4” photocathodes in chalice – Jan/Feb 2012
- ▶ Design of 8” photocathode station – Jan–Mar 2012
- ▶ Decision to proceed with scale–up of chalice – Feb/Mar 2012
 - Quote for parts – Apr 2012
 - Fabrication – May/Jun 2012
 - Integration – Jun–Aug 2012

Is Quartz Possible?



Sealing Station

- ▶ 4" Sealing tests – Jan 2012
- ▶ Modification design of existing thermopressure sealing equipment – Feb/ Mar 2012
- ▶ Completion of sealing tests in Bldg. 208 – Apr 2012
- ▶ Modification of sealing equipment – May–Jun 2012
- ▶ Installation & integration – Jul–Aug 2012

