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
- 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
  - 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$_2$CsSb)
- 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
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