

University of Connecticut

Constructon Readiness Review

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- Scope of the Contract
- Time Schedule
- Scope of the Review and Charges

Scope of the Contract

Tagger Microscope Detector

- Fabricate the tagger microscope according to the JLab approved construction drawings
- Design, layout, and test the preamplifier board, the backplane board, and the control board of the tagger microscope
 - Procurement of electronics boards and installation of SiPMs will be handled by Jefferson Lab
- Perform acceptance test of all electronics boards provided by Jlab
- Perform performance test of the tagger microscope

Active Collimator

- Purchase all components and electronics for the active collimator
 - Jlab is responsible for procurement of tungsten wedges
- Instrument the active collimator with the electronics and perform all necessary acceptance tests (according to QA plan)

Time Schedule: Microscope

Start of construction contract	01 Jan 2013
Readiness review of tagger microscope	07 Feb 2013
Preamplifier, backplane, bias control boards design packages submitted for review to JLab	25 Mar 2013
Complete construction of dark-box	25 Mar 2013
Complete 1 st article optical fiber bundle	01 Apr 2013
Complete first 3 fiber bundles, selection of reference fiber bundle	06 May 2013
Receive 1 backplane board from manufacturer	20 May 2013
Submit microscope enclosures design drawings for review to JLab	03 Jun 2013
Receive 2 preamplifier boards from manufacturer	17 Jun 2013
Receive 1 bias control board from manufacturer	17 Jun 2013
Complete assembly of 1st article backplane board	17 Jun 2013
Complete assembly of 1st article preamplifier boards (2)	01 Jul 2013
Complete assembly of 1st article control board	01 Jul 2013
Complete testing of first 2 preamplifier boards	15 Jul 2013
Complete testing of first bias control board	12 Aug 2013
Receive full complement of PCBs from manufacturer	12 Aug 2013
Complete assembly and checkout of all electronic boards	21 Oct 2013
Complete construction of the electronics enclosure	08 Nov 2013
Compete 17 optical fiber bundles	22 Nov 2013



Time Schedule: Microscope

Complete construction of the fiber array enclosure	06 Dec 2013
Complete assembly of full enclosure at UConn	03 Jan 2014
Complete software for cosmic-ray testing	03 Jan 2014
Complete software library for control of bias voltage and monitoring	03 Jan 2014
Complete cosmic-ray testing of microscope detector	31 Jan 2014
Microscope disassembled and packaged for shipment to JLab	14 Feb 2014
Delivery of detector components to JLab	24 Feb 2014

Time Schedule: Active Collimator

Receive all remaining tungsten wedges from FSU	01 Apr 2013
Complete assembly of active collimator	15 May 2013
Complete bench test of active collimator	10 Jun 2013
Complete software for accelerator controls interface	29 Jul 2013
Delivery of active collimator to JLab	14 Oct 2013

Review Charges

- Review fabrication procedures of the microscope detector
- Review status of the microscope electronics
- Review UConn facilities, manpower, and schedule
(including space, storage areas, testing equipment, personal training)
- Review testing procedures of the active collimator electronics and bench tests
- Review quality assurance and testing procedures