

GNIRS PROGRESS REPORT

September 1 – September 24, 2002

Accomplishments / Status

Summary: 93% of the work from the Restart Review to delivery has been completed. Progress was made on assembly and wiring, on the telescope simulator, and on the SRC lens. The 9th Quarterly Review was held on September 3rd. The instrument is currently being pumped-down in preparation for the first cold testing. The SR camera lens has been received and is being cold-cycled to ensure integrity before installation into the camera. The camera will be installed into the instrument following the first cold test. Warm testing will follow, and flexure testing will occur during the second cold cycle.

The instrument is scheduled to ship to Chile in the first quarter of calendar year 2003.

Next Milestones: The next major project milestones are:

- First cold test – September
- Warm tests with Mux – October
- Flexure testing – October

Earned Value:

	January	February	March	April	May	June	July	August	September
BCWS	\$3,304,286	\$3,344,496	\$3,413,125	\$3,462,160	\$3,504,878	\$3,546,177	\$3,567,153	\$3,572,138	\$3,572,138
BCWP	\$2,911,411	\$2,930,888	\$2,970,031	\$3,035,216	\$3,156,912	\$3,173,288	\$3,202,553	\$3,186,692	\$3,206,344
ACWP	\$3,383,383	\$3,453,168	\$3,537,018	\$3,756,257	\$3,858,289	\$3,956,665	\$4,068,240	\$4,137,200	\$4,205,116
SPI	0.88	0.88	0.87	0.88	0.90	.89	.90	.89	.90
CPI	0.85	0.85	0.84	0.81	0.82	.80	.79	.77	.76

This table reflects planned and actual charges to the project as of September 23, 2002. The team has spent \$1,544,504 in capital to date. BCWS did not change for this reporting period because MS Project is reporting this number to the August 2000 baseline schedule, which does not reflect adjustments to subsequent schedule revisions. This number would change if the project schedule baseline had been updated. We have no plans to update the baseline at this late date in the project.

Project Management: (90% complete) The project plan may be viewed on the GNIRS web site at: <http://www.noao.edu/ets/gnirs/> under Management, Planning. The current delivery of the GNIRS instrument is March 2002.

Systems Engineering: (100% complete).

Mechanical Design, Fabrication, Assembly and Test: (96% overall). The major activity is shipping container fabrication.

Fixed Assemblies: (93% complete overall). Only the Shipping container fabrication remains. This work is being done internally at NOAO, and should be completed in December.

Electronics: (88% complete overall). Only updating of the documentation to reflect the as-built configuration is left.

Alignment and Integration: (65% complete overall)

	March	April	May	June	July	August	September
Telescope Simulator	69%	88%	93%	99%	99%	99%	99%
I. Dewar and Structure	-	-	-	-	-	31%	100%
II. Mechanical Integration	-	43%	43%	43%	80%	94%	95%
III. Warm Tests	-	-	-	9%	-	-	-
IV. Cold Tests	-	-	-	-	-	-	-

Deliverables: (59% complete overall) Comments on the Software Maintenance manual have been received from Gemini, and revisions are in process. Draft manual outlines for the Hardware Maintenance and User's manuals were submitted to Gemini for comment. The as-built fabrication drawings are 75% complete.

Procurement: (99% complete overall). Only items being procured are miscellaneous parts and supplies, and travel and shipping cost to Chile remain.

Problems / Solutions

None.

Key Personnel

No changes.