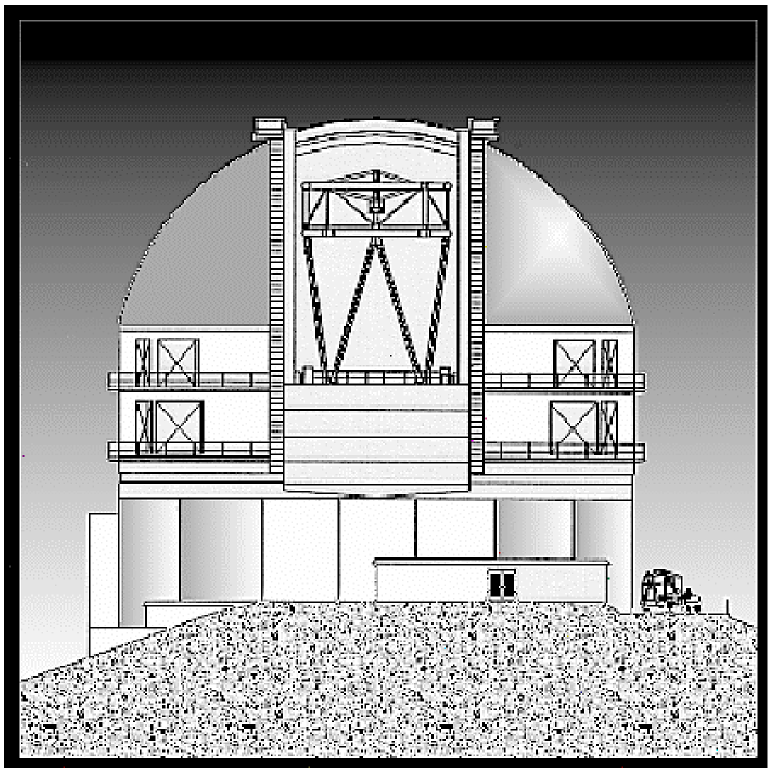
GEMINI
8-M Telescopes Project

ICD-G0012

Fast Tip/Tilt Loop Latency



R. McGonegal

June 28, 1995

Approved by Systems Engineer: ______________________

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Revision Control Descriptions

Revision:
Date:
Approved:
Description:

This General Interface Document allocates the time delay, or latency, involved in the fast tip/tilt loop.

Item	**Allocation**	**Actions**
A&G	1000	Start reading CCD Calculate centroids Calculate Zernike coefficients Write coefficients out to *A&G Reflective Memory*
Synchro #1	50	Read coefficients from *A&G Reflective Memory* Write coefficients into *M2 VME Reflective Memory*
M2 VME	200	Read coefficients from *M2 VME Reflective Memory* Calculate position desired for M2 Tilt and M2 Translation Write demands back out to *M2 VME Reflective Memory*
Synchro #2	50	Read coefficients from *M2 Reflective Memory* Write coefficients into *M2 Tilt Reflective Memory*
M2 Tilt	100	Read coefficients from *M2 Tilt Reflective Memory* Calculate voltages required on M2 tilt actuators Generate voltage on actuators
Contingency	600	Only to be used in extreme cases of need
Total	2000	Maximum allowable without serious degradation