CALIFORNIA INSTITUTE OF TECHNOLOGY				DCN N	o. E9	7006	55-00)-D		
LIGO MASSACHUSET		S INSTITUTE OF TECHNO	HNOLOGY	SHEET	1	OF	2			
DOCUME		E NOTIC	E (DCN)							
	NT CHANG	IE NOTIC	E (DCN)					30.00		
DOCUMENT No. (DOC-REV-GP. ID)			TITLE					NEW REV.		
E960094-A-D	Mirror Blank Ma	aterial, Beam	Splitter				İ	В		
E960100-A-D	Substrate, Beam	Splitter	•					В		
D960789-A-D	Beam Splitter Su	ubstrate						В		
E960093-A-D	Substrate, Input	Test Mass						В		
D960787-A-D	Input Test Mass	Substrate, 4K					İ	В		
D960803-A-D	Input Test Mass	Substrate, 2K						В		
Specification Changes incorporated in E960094-B-D Revised to reference rev B of the BS Material Blank Drawing (already released) Specification Changes incorporated in E960100-B-D and E960093-B-D The registration mark will be inscribed within 5 mm of the mark drawn on the mirror blank. Polish from a 5 micrometer grit. Delete "Data shall be taken from side 1side 2" from page 4 Side 1 Radius of Curvature 14,570 meters Radius of Curvature of the wavefront measured through Side 2 10,050 meters REASON FOR CHANGE: Update documentation to incorporate definition of wedges, change of radius of curvature										
and other details negotiated with the Polisher.										
ACTION: Incorporate change Attach DCN to drawing(s) Other action (specify):										
DISPOSITION OF HARDWARE (IDENTIFY SERIAL NUMBERS)				DC	DCN DISTRIBUTION					
No hardware affected (record change only)					Barish Lazzari		Coles Lindqu	ıiet		
List S/Ns which comply already: List S/Ns to be reworked or scrapped:					Sander		Shoen			
List S/Ns to be reworked or scrapped: X List S/Ns to be built with this change: A]]					Tyler Whitco	mb 1		1		
List S/Ns to be built with this change: All						Datus				
					Billingsley Petrac Kells Elieson					
					Zydowicz					
SAFETY, COST, SCHEDULE, REQUIREMENTS IMPACT? No Yes (If yes, enter CR (CCB) or TCP (TRB) no.										
APPROVALS:		DATE	OTHER APPROVA	ALS (specify)			DAT	E		
ORIGINATOR: Billingsley		11/12/97								

11-13-97

TASK LEADER: Camp

DCC RELEASE:

GROUP LEADER: Whitcomb

DCN No.	E970065-00-D				
SHEET	2	OF	2		

DOCUMENT CHANGE NOTICE

CHANGE DESCRIPTION (FROM/TO):

CONTINUED

Inspection method for scratches and point defects:

- 1. The surface is examined visually by two observers independently. The examination is done against a dark background using a three-bundle fiberoptic illumination system of 200 W total power. A 100% inspection of the surface is carried out. Pits and scratches down to 2 micrometers in width can be detected using this method of inspection. Any scratches that are detected will be measured using a calibrated eyepiece.
- 2. Further inspection will be done with a 6X eyeglass using the same illumination conditions, again with two observers. Sleeks down to 0.5 micrometers wide can be detected using this method. The surface will be scanned along one or two chords from centre to edge, then at ten positions around the edge, and ten to fifteen positions near the centre.
- 3. An inspection is then carried out with a dark field microscope with a similar sampling frequency as described in section 2.

Drawing changes which are incorporated in D960787-B-D, D960789-B-D and D960803-B-D

Wedge angles updated as follows:

D960787-B-D Input Test Mass Substrate, 4K; 1° 10'± 5'

D960789-B-D Beam Splitter Substrate; 1° ± 5'

D960803-B-D Input Test Mass Substrate, 2K; 0° 34'± 5'

Tolerance of +- 1 degree on location of registration mark WRT minimum thickness

Etch changed to "etch OR GRIND" in 3 places