E980065-00-D								
DR	REV.							
GID	1	2						
SHEET	OF	_						

COMPONENT SPECIFICATION

TITLE

FOLDING MIRROR SUBSTRATE, COATED

APPROVALS:	DATE	REV	DCN NO	BY	СНК	DCC	DATE
drawn: Helena Armandula	3-10-98						
снескед: Ј. Сатр	4-6-98						
APPROVED: S. Whitcomb	4-6-98						
DCC RELEASE:							

Applicable Documents

LIGO-D960790-A-D Folding Mirror Substrate LIGO-E960101-A-D Substrate, Folding Mirror

Requirements

Physical Configuration

Fabricate from

LIGO-D960790-A-D Folding Mirror Substrate

Surface 1 and 2

Coating to be centered at 1064 nm

Angle of Incidence to be 45 degrees - Optimized for "P" polarization

Coating Uniformity: 1nm rms - central 8 cm

15 nm p-v - over 20 cm

Scatter: <15 ppm Absorption: <1 ppm

Zero surface electrical field

Surface Quality

To comply with LIGO Component Specification E960101-A-D (Page 2):

"Scratches and Point Defects"

Coating to resist abrasion test per MIL-M-13508C

Surface 1: HR Coating

Transmission: <500 ppm