CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DCN No.	E	01020	09-00-D)
SHEET	1	OF	1	
10/29/0	1			

DOCUMENT CHANGE NOTICE (DCN)

DOCOME	INT CHANGE NOTICE (DON)	
DOCUMENT No. (DOC-REV-GP. ID)	TITLE	NEW REV.
LIGO-E0000Ø29-A-W	LOS Optic Process Traveler Form	В
CHANGE DESCRIPTION (FROM/T	O):	
Added Wire Specification	Section.	
······································		
TO THE CONTRACT OF THE PARTY OF		поволого на 1444 ПИИ ПИЦИ ПОВОЛОГО В ВОЗВЕТСТВИ В СТОТО В ВОЗВЕТСТВИ В СТОТО В ВОЗВЕТСТВИ В СТОТО В ВОЗВЕТСТВО
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
REASON FOR CHANGE: Update	ted for Detector Installation/Documentation.	
ACTION: X Incorporate change	e Attach DCN to drawing(s) Other action (specify):	
	OF HARDWARE (IDENTIFY SERIAL NUMBERS)	DCN DISTRIBUTION (X=incl. docs)
No hardware affected (recor		Barish Coles X Coyne Lazzarini Lindquist
List S/Ns to be reworked or		Raab Sanders Shoemaker Stapfer XTyler Weiss
List S/Ns to be built with thi		Whitcomb Sackwicz
List S/Ns to be retested per	this change:	
		X J. Hazel Romie X D. Cook
		X D. Cook
SAFETY, COST, SCHEDULE, REQ	UIREMENTS IMPACT? Yes (If yes, enter Change	Request number)
APPROVALS	DATE OTHER APPRO	VALS (specify) DATE
originator: B. Weaver)	16. Wesney and 10/29/05	Name to the state of the state
TASK LEADER: B. Weaver	N HOUSE OF THE PARTY OF THE PAR	Weighting the first of the second sec
GROUP LEADER: D. Coyne	10/20/01	
DCC RELEASE: DOWN / 1	use 11-11-01	

LIGO LARGE OPTIC PROCESS TRAVELER Form E000029-	LI	I	(1)	I	A	R	0	F		0	P	T	ľ	C	I	P	2	O	(E	S	S	T	R	A	1	V	E	L	E	R	F	o	rn	n	E	0	00	00	2	9-	B	_	1	V
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DCC Number:	E	00-X
Date Prepared:		

Originator		Cognizant Engineer	Ext./Phone#
Optic Dwg/Part Number	Rev	Optic Description	Serial Number
opile 2 ng rate ration			

Process Flow: Any deviation from procedures must be approved and noted below.

			1100	ess riow: Any	y deviation from proce	edures must be approve	d and noted below.	
40	SENSOR/ACTUATOR HEADS		1	Match 5 sensor/actuator heads.	Serial Number	Open Light Voltages	Resistance (~13ohms)	Initial and Date
1	S	3.2			1.			
-	K/ACT HEADS	E970154 ection 3.			2.			
1	HE	E9701: Section			3.			
O. a.	N N				4.			
5	7				5.			
			2	Match one set of 6 magnets (4 S, 2 N) in strength to within 5 percent	Which type of side standoff used:	Polarity	Gaussmeter Strength	Initial and Date
	Z			of each other.	(RM or Reg.)		Sucugui	
E	100	5.1				1.		
	RA	E970154 ection 5.				2.		
	MAGNE I PREPARATION	E9701: Section				3.		
	PR					4.		
						5.		
						6.		

N.B.: A copy of this traveler must be submitted to the DCC each time the original is shipped with the associated part(s) and when the traveler has been completed.

LIGO PROCESS TRAVELER **DCC Number:** -00-X E Make up one set of magnets (2 S, 2 Cure Start date & Cure End date & Initial and Date VacSeal Label Section 5.1 Continue N, 2 S sides). Date time time Initial and Date Clean optic as per LIGO-E990035. **PREPARATION** Section 5.2.1.2 Initial and Date Cement one guide rod and one VacSeal Label Cure Start date & Cure End date & E970154 wire standoff to optic. Date time time Remove fixture and inspect bond Initial and Date visually. Initial and Date Cement the 6 magnet/standoff VacSeal Label Cure Start date & Cure End date & assemblies from step 3 to the optic. Date time time Section 5.2.2.2 MAGNETS E970154 Remove plungers after 2 hour ele-Any bond failures? Note the location Initial and Date vated cure time and, after cool, of bond failures perform the razor blade test on the on Figure 1. bonded magnet assemblies. Order Date: Wire diam .: Wire Specification Spool PO#: Spool Lot# 5.4.3.2 and 5.4.3.3 Suspend the optic in the LOS Balance Angle Initial and Date E970154 Section BALANCING structure and balance it to its specific tilt angle - E000028. Cement the wire standoff used in Cure End date & Initial and Date VacSeal Label 11 Cure Start date & balancing. time Date time

DCC Number: E____

E_____E

	12	Remove optic from LOS structure.				Initial and Date
3.3	13	Air blow the optic with dry nitrogen and visually inspect it.				Initial and Date
Continued E970154 Section 5.4.3.3	14	Load the optic into the vacuum bake oven and vacuum bake per E960022-06 (B. Rivera/K. Ryan).	VBO Load # Scan # VBO Load # Scan #	Director Signature Director Signature	VBO Load # Scan # VBO Load # Scan #	Director Signature Director Signature
			VBO Load # Scan #	Director Signature	VBO Load # Scan #	Director Signature
E970154 Sec. 5.4.4	15	Resuspend and verify balance.			Balance Angle	Initial and Date
Head	16	Install sensor/actuator heads to 60% of their open light voltage.	Position	Voltage (near 60% of open light volt- age)	Final voltage after installing PAMs	Initial and Date
Sensor/Actuator Head Installation E970154 Section 5.5			1. 2. 3.			
Sensor			4. 5.			

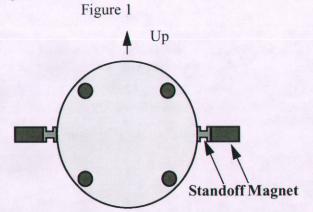
DCC Number: E____-00-X

		17	Measure the resonant frequencies.	Pitch		
	eq.			Yaw		
ıring	t Fr Sec 1			Pendulum		
0.00	Resonan E970154 5.5.			Vertical		
Z	Resonan E970154 5.5			Roll		
				Violin		
		18	Install in chamber as per E000061 or E000062 installation documents.		Chamber location:	Initial and Date
			documents.			

NOTES:

Indicate location of failed bonds, if any.

As reference, indicate the position of the wire rod and wire standoff on Figure 1



DCC Number:

E_____-00-X

Note any all special actions and notes pertaining to this optic:

Table 1: Action Items

DATE	NAME	DESCRIPTION

DCC Number: E____

_-00-X

Table 1: Action Items

DATE	NAME	DESCRIPTION