

**T010071-00-W RECORDING FORM FOR SENSOR ACTUATOR MEASUREMENTS TAKEN AT THE VACUUM FEED THROUGHs USING THE MIT BREAKOUT BOX**

SENSOR/ACTUATOR (OSEM) MEASUREMENTS FOR- \_\_\_\_\_ OPTIC (READ AT VACUUM FEED THROUGH

DATE: \_\_\_\_\_; TIME: \_\_\_\_\_; BY: \_\_\_\_\_

SATELLITE BOX S/N: \_\_\_\_\_; CONTROLLER S/N: \_\_\_\_\_

Maintain Suspension Controller settings used for optic alignment

Disable controller

Check MIT Break Out box battery ~ 9.5V.....7.0V min.

Disconnect the feed through input cables from J1 & J2 and connect the 'MIT Break Out Box' cables to the feed through input cables

**WARNING: DO NOT PLUG LEADS INTO SATELLITE BOX J1 & J2 CONNECTORS AS YOU COULD RECEIVE A HIGH VOLTAGE SHOCK !**

Enable controller

Record measurements

Connect a DVOM to the J3 connector for OSEM voltages

OSEM S/N XXX (last 3 digits) \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_;

MEASUREMENTS	UR	UL	LL	LR	S	ACCEPTABLE LIMITS
LED (mA)						50 +/- 1mA
PD (uA)						>90uA Full Open Light (Reading will be ~ 1/2)
R (OHMS)						13 to 14 (CABLE RESISTANCE adds ~ 5ohms)
L (mH)						2.9 to 3.3mH - 'ON' switch to 'ON'- L position
Leakage Current (uA)						< or = to 0.01uA
OSEM VOLTAGE (V)						" - 0.8 to -1.2

Note: L is not greatly effected by the cable length

Notes:

Attach a copy to the optic Installation Spec. records/traveler and enter a copy to the e-log

# LASER INTERFEROMETER GRAVITATIONAL WAVE OBSERVATORY

- LIGO -

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<b>TAMA Seismic Attenuation System (SAS) tower</b>		
<b>Assembly procedures</b>		
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