		DCC Number: E070353-00-X
advancedligo	Process Traveler OMC & Tip/Tilt	Date Prepared: 18 Dec 2007
	Birmingham OSEMs	

Originator		Cognizant Engineer	Ext./Phone#	Project	Account	Number
Name Janeen Romie	Nam	e: Stuart Aston, Univ. of Birmingham 2	25-686-3109 (Janeen)	Enhanced/Ad	LIGO.ALOM	IC, 5.10.3.2,
Janeen Romie				vanced LIGO	NSFLIGO.FY	(02CA
Dwg/Part Number	Rev	Rev Part Description / Material			Serial Number	
D060218	B	Birmingham OSEMs	001 - 016		16	
Used In (next higher assembly	y): 8	for D060306 OMC Top Assembly and 8	for tip/tilt suspension			
		<b>PO/Contract</b>	Number			
Assorted.						

### Data Package, Receiving/Inspection Remarks:

Inspection	Visual Damage	Comments	Name/ Initials	Date Comp.
<b>Required Y/N</b>	Y/N			
Y				

### **Process Flow**:

#	Operation	Start Date	Work Area	Instructions	Name/ Initials	Date Comp.
1	Clean		CIT	See E960022 for initial LIGO osem		
2	Vacuum Bake		CIT	125 deg C for 48 hours		
3	Control Point			Review/Approve RGA scan		
4	Wrap & Tag vacuum clean			Please wrap in packages of 8		
	parts					

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



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#	Operation	Start Date	Work Area	Instructions	Name/ Initials	Date Comp.	
5	Ship and Deliver/File			Please send to: Chris Echols, CIT for 8 OMC osems			
	paperwork			8 tip/tilt osems to go to Rana at CIT			
				File one copy of traveler with the DCC.			
				Note: Ship original traveler with these parts.			
EN	END: Go to Traveler or procedure associated with next higher assembly processing						

### Special Instructions (Handling/Packaging Constraints, Remarks, etc.) or Notes:

Please keep the sizes separate as they are difficult to differentiate by sight. Thank you.

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

Dycor System 200

File Edit View Control Mode Window Help





Dycor System 200



- D ×

## Pressure Contribution from Flag Hydrocarbons

		40M Lab	RGA Scan Results	
Job# F12808	Descri	Date: 1/28/2008		
	Oven Used: F			
AMU 41	3.20E-15 amps	from RGA scan list	ting	
AMU 43	1.02E-15 amps	from RGA scan list	ting	
AMU 53	2.20E-16 amps	from RGA scan list	ting	
AMU 55	3.50E-16 amps	from RGA scan list	ting	
AMU 57	1.03E-16 amps	from RGA scan list	ting	
Sum Flag H/C AMUs	4.89E-15 amps		-	
	-			
Calib leak rate	2.36E-10 torr l/s	(Argon)		
AMU 40 (w/leak open)	5.20E-13 amps			
AMU 40 (background)	1.20E-14 amps			
Calib leak contributes	5.08E-13 amps	= (w/leak open) - (	background)	
	1		6 ,	
Flag H/C Outgassing	2.273E-12 torr l/s	= (Sum Flag H/C A	MUs) x (Calib leak rate)/	(Calib leak contrib.)
				、/
Test item surf area	1.60E+01	B-OSEMs		

Normalized outgassing 1.421E-13 torr l/s/unit = Flag H/C Outgassing/Test item

Full description: 16 Fully Assembled Birmingham OSEMs

Pre-scan bake: 125C for 48Hrs.