California Institute of Technology Massachusetts Institute of Technology Document Change Notice (DCN)			DCN No. E	DCN No. E040356-00-D Sheet 1 of 2		
			Sheet 1			
DOCUMENT No. (DOC-REV-GP.II))	TITLE			NEW REV	
E990034-00-B-D	990034-00-B-D Small Optics Cleaning Procedure				С	
CHANGE DESC	RIPTION (FROM/TO)	•				
To: Dry nitrogen and N2 shall be disper Paragraph 5- From To: AlphaSorb 10 Paragraph 6 – From Alpha 10 from To: Alph	nsed from an ionizing gur om: Berkshire Fastsorb 8.) om: Berkshire Lenx 90 ti n Texwipe. om: Crystallizing dish fo	5% pure with a water vap n fitted with a 0.2 micron 20 tissue		oart per millio	n (ppm). The	
REASON FOR O	CHANGE: Up-dated ma	aterials and revised pro	cess			
ACTION:	☑ Incorporate Change [Attach DCN to Drawings	Other Action	(specify):		
DISPOSITION (OF HARDWARE (IDENTIF	TY SERIAL NUMBERS)	D	CN DISTRIBUTIO)N	
No hardware was affected (record change only): List S/Ns which comply already: List S/Ns to be reworked/scrapped:				G. Billingley Coyne Shoemaker G. Traylor Weiss M. Zucker Worden J. Romie		
			Worden			
List S/N's to be built with this change:						
List S/Ns to be	retested per this change:					
SAFETY, COST, SCH	EDULE, REQUIREMENTS IN	MPACT? NO	YES (If YES, enter CR (CCB) or TCP (TF	RB) #)	
	2011110	AME CONTINUE AND STATE	T.C. (CDE CIETA)		I DAME	

APPROVALS: DATE OTHER APPROVALS (SPECIFY) DATE ORIGINATOR: H. Armandula 08/11/04 TASK LEADER: G. Billingsley GROUP LEADER: D. Coyne DCC RELEASE:



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Sheet 2 of 2

CHANGE DESCRIPTION (FROM/TO):

Paragraph 9 – From: (Holders should be cleaned with Liquinox solution and...

To: (Holders should be cleaned with Liquinox solution as prepared below and...

Paragraph 10- From: Gloves - Ansell Edmont Latex 90-576

To: VWR Certi-Clean Class 100 Latex Gloves or Accu Tech Ultra Clean 91300 Gloves.

Paragraph 11 – From:... increase temperature to 70 degrees C

To: ... increase temperature to 50 degrees

Step 1 – From: Line the bottom of the Pyrex dish with 3-4 sheets of Lenx 90 tissue cut to size.

To: Line the bottom of the Pyrex dish with a piece of Alpha 10 tissue cut to size

Step 3 – From: Warm the solution to 70 degrees C.

To: Warm the solution to 50 degrees C - Added: turn off hot plate

Step 4 – From: Soak the immersed parts, keeping the dish on the hot plate, for 15 min. at 70 degrees C.

To: Soak the immersed parts, keeping the dish on the hot plate, for 15 min. at 50 degrees C.

Step 7-From: With a soft lens tissue (Lensx 90)...

To: With a soft lens tissue (Alpha 10)

Step 11 – Deleted NOTE: If the water does not sheets off the mirror surface at this time, repeat steps 4 through 11.

Step 12- From ... "several sheets of Lens 90 tissue"

To: ...a sheet of AlphaSorb 10 wipe

Step 13 - From "With the ionizing gun, utilizing pure, dry nitrogen and low pressure (45/50 lbs / in.2), slowly blow the edges of the mirror and the coated surfaces starting from the top and working towards the bottom. Ensure that no water remains on the surfaces."

To: Allow the water to dry off for 15 minutes insuring that the particle count under the flow bench meets the spec of Class 10 clean room (ISO4), would not contain more than 10 particles bigger than half a micron in a cubic foot of air.

Step 14 - From "Inspect the mirror surfaces for streaks or water marks in a dark room, over a dark background, with a high intensity light"

To: Inspect for remnants of water at the bottom of the optic. If any are present, carefully remove with the corner of a folded Alpha 10 wipe dampened with methanol.

Final inspect the surfaces of the mirrors for streaks or water marks in a dark room, over a dark background, with a high intensity light"

Step 17- From: "Wet a Lenx 90 tissue with warm (70 degrees C) Liquinox solution."

To: Wet a Alpha 10 wipe with warm (50 degrees C) Liquinox solution.

Step 21 – From: Place the mirror, resting on its edge over several sheets of Lenx 90 tissue.

To: Place the mirror, resting on its edge over one AlphaSorb 10 wipe.