

# LIGO PROCESS TRAVELER

DCC Number: **E990280-00-X**

Date Prepared: **7/8/99**

Originator	Cognizant Engineer	Ext./Phone#	Project	Account Number
Michael Smith	Michael Smith	2062	COS	5F515

Dwg/Part Number	Rev	Part Description	Serial Number	Qty
		<b>Beam Dump Assemblies, LBSC2</b>		
D980087	A	“glass retaining bracket, top left, cavity BD”		2
D980088	A	“glass retaining bracket, top right, cavity BD”		2
D980092	A	“glass plate 1, cavity BD”		2
D980093	A	“glass plate 2, cavity BD”		2
D980289	B	“glass mounting plate1, cavity BD”		2
D980292	B	“glass mounting plate2, cavity BD”		2
D980296	A	“glass retaining bracket, bottom left, cavity BD”		2
D980297	A	“glass retaining bracket, bottom right cavity BD”		2
D980348	B	“side plate, cavity BD”		4
D980378	B	“Stiffener Block, cavity BD”		2
D980685	A	“clamp, plate beam dump”		8
D990028	A	Beam Dump Flex Hinge Tongue		4
D990029	A	Beam Dump Flex Hinge Clevis		4
D990030	A	Beam Dump Flex Hinge Tee		4
D990031	A	Beam Dump Flex Hinge Saddle		4
D990032	A	Beam Dump Flex Hinge Attach		4
D990033	A	Beam Dump Flex Hinge Adapter		4
D990140	D	Beam Dump Housing Plate		2
D990149	C	“Cavity Beam Dump, Mounting Bracket Angle “		4
D990150	B	“Cavity Beam Dump, Mounting Bracket Gusset “		4
D990151	B	“Cavity Beam Dump, Mounting Bracket Backplate 1”		4
D990152	C	“Cavity Beam Dump, Mounting Bracket Backplate 2”		4
D990198	B	Beam Dump Flex Hinge H_tube		4
D990199	A	Beam Dump Flex Hinge Low Strap		4

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Dwg/Part Number	Rev	Part Description	Serial Number	Qty
D990200	A	Beam Dump Flex Hinge Backup		8
D990201	A	Beam Dump Flex Hinge Cap		8
D990202	B	Beam Dump Flex Hinge Top Strap		4
D990207	B	“rail, plate beam dump”		4
D990218	B	“glass, plate beam dump”		2
D990222	A	Beam Dump Housing Tube 2KBSAR3		0
D990223	C	Beam Dump Housing Tube 2KFM		0
D990225	D	“Beam Dump Housing Tube 4KITMHR3, 4KITMHR4”		0
D990236	B	“backplate_offset, plate beam dump”		0
D990240	B	“backplate, plate beam dump”		0
D990252	B	“Beam Dump Housing Tube ITMAR1,2KRMHR3”		2
D990253	A	Extension Tube		2
D990335	A	“Beam Dump Flex Hinge H_tube, 2KITMXAR4 “		0
D990336	A	“Beam Dump Flex Hinge H_tube, 2KITMYAR4”		0
WFV-10		#10 X 0.31 THK FLAT VENTED WASHER		24
WFV-10		#10 X 0.31 THK FLAT VENTED WASHER		32
93615A355		#10-24 X 0.75 LOW HD SCS		24
92196A245		#10-24 X 0.75 SHCS		32
WFV-06		#6 X 0.016 THK FLAT VENTED WASHER		32
92196A144		#6-32 X .25 SHCS		32
WFV-08		#8 FLAT VENTED WASHER		68
92185A194		#8-32 X .50 SHCS		68
91500A194		#8-32 X .500 FHPS		36
91944A450		0.406ID X 0.88OD X 0.25 THK SPHER WASH		16
92141A029		1/4 FLAT WASHER		56
N-2520-A		1/4-20 HEX NUT		16
93615A410		1/4-20 X .500 LOW HEAD SOCKET SCREW		8

Dwg/Part Number	Rev	Part Description	Serial Number	Qty
92196A540		1/4-20 X 0.75 SHCS		48
92196A542		1/4-20 X 1.00 SHCS		32
C-2016-NA		"1/4-20 X 1.00 SHCS, AG/SS"		40
92196A544		1/4-20 X 1.25 SHCS		16
C-2820-NA		"1/4-28 X 1.25 SHCS, AG/SS"		24
91950A031		3/8 X 0.063 FLAT WASHER		6
WFV-38		3/8 X0.032 THK FLAT VENTED WASHER		42
N-3816-A		3/8-16 HEX NUT, AG/SS		4
94804A320		3/8-16 HEX NUT		8
TOP-1616-NA		3/8-16 X 1.00 SOCKT SET SCRW-OVL PT AG/SS		8
90585A626		3/8-16 X 1.25 FLT HD CAP SCREW		8
92186A626		3/8-16 X 1.25 HEX HD SCREW		16
C-1620-NA		"3/8-16 X 1.25 SHCS, AG/SS"		8
92186A630		3/8-16 X 1.75 HEX HD SCREW		4
92196A630		3/8-16 X 1.75 SHCS		12
92186A999		3/8-16 X 7.00 HEX HD SCREW		16
099-966-12-20x		BERYLLIUM-CU GND STRP		8
6032-400		Flex Pivot		8

<b>Used In (next higher assembly):</b>	D990230, BSC Beam dump Installation, top assembly

**Data Package, Receiving/Inspection Remarks:**

Inspection Required Y/N	Visual Damage Y/N	Comments	Name/Initials	Date Comp.
y		Inspect for breakage during shipment		

**Process Flow:**

#	Operation	Start Date	Work Area	Instructions	Name/Initials	Date Comp.
1	Control Point	NA	NA		NA	NA

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#	Operation	Start Date	Work Area	Instructions	Name/ Initials	Date Comp.									
2	Clean		LHO	per LIGO-E960022, as applicable	B. Weaver										
3	wrap and bag		LHO	per LIGO-E960022	B. Weaver										
4	Vacuum Bake		LHO	per LIGO-E960022	K. Ryan										
5	Control Point		LHO	Review/approve RGA:scan # _____ scan # _____ scan # _____ scan # _____ scan # _____ scan # _____  Note: attach RGA scan(s) to this traveler.	K. Ryan										
	Box for shipment to LLO			Ship in LIGO-provided container  <table border="1"> <thead> <tr> <th>No.</th> <th>Qty per package</th> <th>Part</th> </tr> </thead> <tbody> <tr> <td>ALL</td> <td></td> <td>BEAM DUMP PARTS</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> (see also qty. for each shipping destination below)	No.	Qty per package	Part	ALL		BEAM DUMP PARTS					
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#	Operation	Start Date	Work Area	Instructions	Name/ Initials	Date Comp.													
7	Ship																		
		<table border="1"> <thead> <tr> <th rowspan="2">No.</th> <th colspan="3">Ship Qty.</th> <th rowspan="2">Part Description</th> </tr> <tr> <th>LHO</th> <th>LLO</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>all</td> <td></td> <td>beam dump parts</td> </tr> </tbody> </table>			No.	Ship Qty.			Part Description	LHO	LLO	Other			all		beam dump parts		
No.	Ship Qty.			Part Description															
	LHO	LLO	Other																
		all		beam dump parts															
		LHO:	Attn: Betsy Weaver, COS LIGO Hanford Observatory (LHO) Specific Purpose: beam dump BSC8																
		LLO:	Attn: Jonathan Kern LIGO Livingston Observatory (LLO) Specific Purpose: beam dump BSC8																
END: Go to Traveler associated with next higher assembly processing																			

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

Attention: Betsy Weaver, Jonathan Kern, hold cleaned and baked parts for COS assembly

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