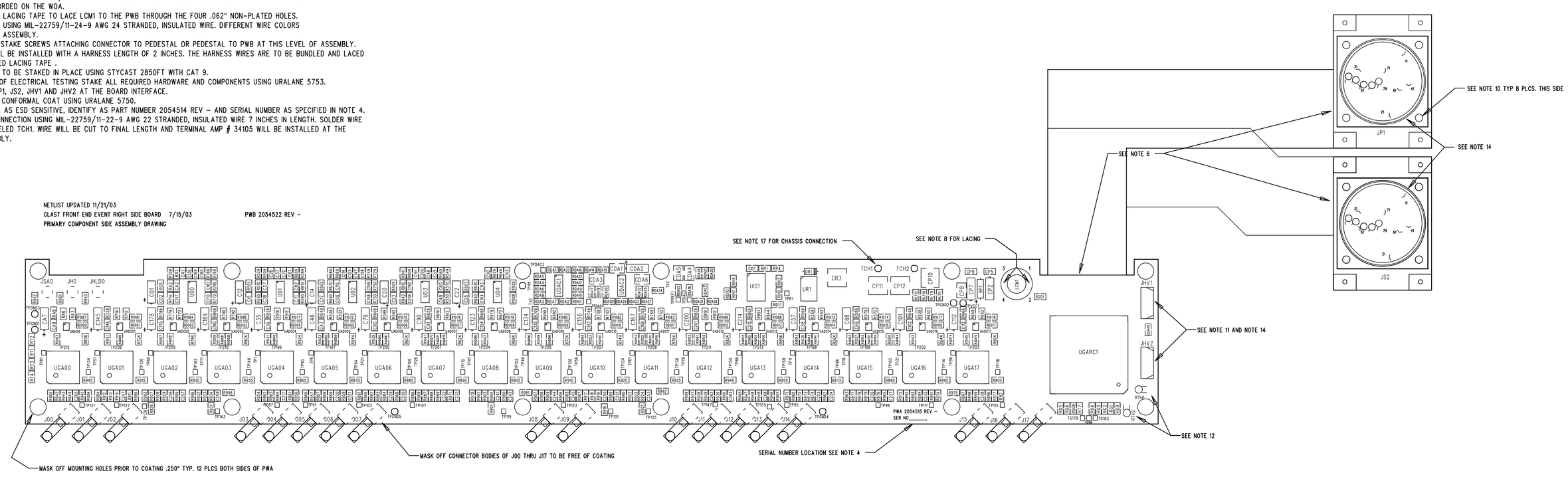
FLIGHTFREERIGHT5.pcb - Fri Dec 05 09:40:30 2003

REVISION				
SYM	ZONE	DESCRIPTION	DATE	APPROVAL

ASSEMBLY NOTES

1. HANDLE FOR ESD, ASSEMBLE, STAKE AND COAT IAW NASA-STD-8739.7, NASA-STD-8739.2, NASA-STD-8739.3 AND NASA-STD-8739.1
2. HANDLE PWB/PWA TO MINIMIZE BENDING OF FLEX CABLES.
3. PWB/PWA WILL ONLY BE TRANSPORTED WHEN INSTALLED ON MOUNTING FIXTURE AND REMAIN ON THE FIXTURE FOR AS MANY TEST OPERATIONS AS POSSIBLE.
4. DOCUMENTATION WILL SPECIFY SERIAL NUMBER TO BE PLACED IN LOCATION SHOWN USING HYSOL M-9-N, SERIES M WITH CATALYST B-3 PERMANENT MARKING INK COLOR WHITE
5. APPLY SOLDER PASTE USING STENCILS.
6. AFTER REFLOW OF SMT COMPONENTS RUN A BEAD OF URALANE 5753 ON BOTH SIDES OF BOTH FLEX CABLES TO PROVIDE STRAIN RELIEF AT THE FLEX/RIGID INTERFACE ON THE MAIN BOARD AND TWO CONNECTOR RIGID SECTIONS.
7. MAINTAIN PART TRACABILITY IAW NASA/GSFC GDMS GPG 5310.4C. SERIAL NUMBERS FOR UGA00 THRU UGA17 AND UGARC1 ARE TO RECORDED ON THE WOA.
8. USE 22DPTH BRAIDED LACING TAPE TO LACE LCM1 TO THE PWB THROUGH THE FOUR .062" NON-PLATED HOLES.
9. INSTALL JP1 AND JS2 USING MIL-22759/11-24-9 AWG 24 STRANDED, INSULATED WIRE. DIFFERENT WIRE COLORS MAY BE USED TO AID ASSEMBLY.
10. DO NOT TORQUE OR STAKE SCREWS ATTACHING CONNECTOR TO PEDESTAL OR PEDESTAL TO PWB AT THIS LEVEL OF ASSEMBLY.
11. JHV1 AND JHV2 SHALL BE INSTALLED WITH A HARNESS LENGTH OF 2 INCHES. THE HARNESS WIRES ARE TO BE BUNDLED AND LACED USING 22DPTH BRAIDED LACING TAPE .
12. RHT1 AND RTH2 ARE TO BE STAKED IN PLACE USING STYCAST 2850FT WITH CAT 9.
13. AFTER COMPLETION OF ELECTRICAL TESTING STAKE ALL REQUIRED HARDWARE AND COMPONENTS USING URALANE 5753.
14. STAKE WIRES FOR JP1, JS2, JHV1 AND JHV2 AT THE BOARD INTERFACE.
15. MASK OFF PWA AND CONFORMAL COAT USING URALANE 5750.
16. PROTECT AND LABEL AS ESD SENSITIVE, IDENTIFY AS PART NUMBER 2054514 REV - AND SERIAL NUMBER AS SPECIFIED IN NOTE 4.
17. INSTALL CHASSIS CONNECTION USING MIL-22759/11-22-9 AWG 22 STRANDED, INSULATED WIRE 7 INCHES IN LENGTH. SOLDER WIRE END INTO HOLE LABELED TCH1. WIRE WILL BE CUT TO FINAL LENGTH AND TERMINAL AMP # 34105 WILL BE INSTALLED AT THE NEXT LEVEL ASSEMBLY.

NETLIST UPDATED 11/21/03
GLAST FRONT END EVENT RIGHT SIDE BOARD 7/15/03 PWB 2054522 REV -
PRIMARY COMPONENT SIDE ASSEMBLY DRAWING



ITEM NO.	REQD	REQD	PART NO.	DESCRIPTION	MATERIAL	MATERIAL SPEC	B NO.
				LIST OF MATERIALS			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
.XX ±/-.01 .XXX ±/-.005 FRACTIONS ±/-1/16 ∠ ±/-3°
REMOVE ALL BURRS AND SHARP EDGES R OR CHAMFER .010 MAX.

☐ FLIGHT HARDWARE
☐ HARDNESS TEST NOT REQUIRED ☐ NON-FLIGHT
☐ TEST HARDNESS PER ASTM E-18, LOCATION OPTIONAL
☐ TEST HARDNESS PER ASTM E-18, WHERE INDICATED ON FIELD OF DRAWING TREE
☐ NO NON-DESTRUCTIVE EXAMINATION (NDE) REQD
☐ NDE REQUIRED PER S-313-009 CODE

PLOT DATE	11/28/03
THIS DRAWING WAS PRODUCED USING	
SOFTWARE	PADS-POWERPCB VERSION 5.0.1
FILE NAME	
BOARD DATABASE	FLIGHTFREERIGHT5.PCB

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION — GODDARD SPACE FLIGHT CENTER — GREENBELT, MARYLAND

	NAME	INIT	DATE
DESIGNED	P. GOODWIN		
DRAWN	P. GOODWIN		
CHECKED			
APPROVED			
APPROVED			
APPROVED-STRESS			
APPROVED-ENGINEER			

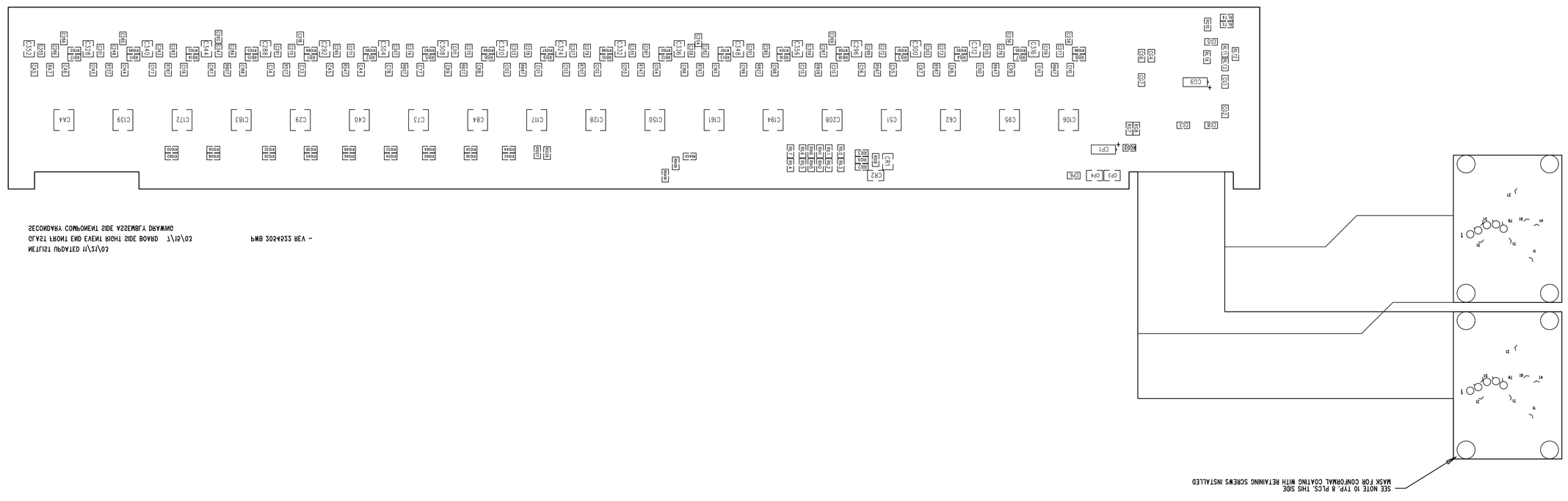
DRAWING INTERPRETED PER GSFC-1873-04-1

TITLE
GLAST FRONT END EVENT RIGHT SIDE BOARD ASSEMBLY DRAWING

CODE	SIZE	NO	REV
GJ		2054514	-
	SCALE 2:1	WT	SH 1 OF 2

2054529-1	GLAST ACD
NEXT ASSY	USED ON

FILE NO. 2054514



HEATSINK MOUNTED ON THIS SIDE
CLA121 FRONT END EXEMT BOARD THIS SIDE BOARD 20/01/1
SECONDARY COMPONENT SIDE ASSEMBLY DRAWING

BMW 3024233 REV -

REVISION				
SYM	ZONE	DESCRIPTION	DATE	APPROVAL

ITEM NO	REQD	PART NO	DESCRIPTION	MATERIAL SPEC	A NO.
			LIST OF MATERIALS		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES
.XX ±.010 .XXX ±.005 FRACTIONS ±1/16 ANGLES ±1/2°
REMOVE ALL BURRS AND SHARP EDGES 0 OR CHAMFER .20 MAX

MATERIAL		DATE	
FINISH			
DRAWN	L. COOSMAN		
CHECKED			
ENGINEER			
MANAGER			

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND

DRAWING NZTRMETER.MDB SPEC-MEC-4-1

FIRST MANUFACTURE
FIRST ASSEMBLIES MUST BE REQUIRED
FIRST ASSEMBLIES MUST BE ACTIVE E.M. LOCATION OPTIONAL
FIRST ASSEMBLIES MUST BE ACTIVE E.M. WORK ACCEPTED
ON FILE IF DRAWING THIS

NON-FLIGHT
FLIGHT

NO NON-DESTRUCTIVE EXAMINATION (NDE) REQD
NO NDE REQUIRED PER S-313-099 CODE

ATP0D1D-CN4DM3X	USED ON	NCRT MIXR	
ATP0D1D-1M13S		3D34139-1	CLAYT MIX
ATP0D1D			
ATP0D1D			
ATP0D1D			
ATP0D1D-1M13S			
ATP0D1D-CN4DM3X			

SIZE	CODE IDENT NO	DRAWING	REV
J	20545	205454	
SCALE 1:1	SHT 1 OF 1		

GLAST FRONT END EVENT
RIGHT SIDE BOARD
ASSEMBLY DRAWING

PART DATE	9/28/00		
TWO DRAWING BAS PRODUCED USING			
SOFTWARE	PADS-PCB2000B V5.0.0.4		
FILE NAME	FLIGHTFRENDRIGHTB		

205454

1	2	3	4	5	6	7