



TRAVELER S-30

SHIELD WIRE / GATED GRID WIRE FRAME PRIOR TO USE  
CHECK VISUAL INSPECTION

RECORD ANODE WIRE WINDING NUMBER # \_\_\_\_\_

After the each answer of following questions please initial your name.

VISUAL INSPECTION

1. Is there kink in the wires?  
(check every spools) Yes \_\_, No\_\_
  
2. Does any wire contaminated with oils and dirt (include lint)? Yes \_\_, No\_\_
  
3. Are there any discoloration of the wire ? Yes \_\_, No\_\_
  
4. Are there any missing wire in the wire frame? Yes \_\_, No\_\_
  
5. Are there noticeable change in the wire tension?  
(Look for sags or noticeable catenary effect) Yes \_\_, No\_\_

IF THE ANSWER TO ANY QUESTION ABOVE IS **YES** BAG AND TAG  
wire frame with **"REJECTED-VISUAL"** AND NOTIFY  
COGNIZANT ENGINEER.

INSTRUCTIONS

If visual inspection has failed, bag and tag **"REJECTED WIRE FRAME"** and mark  
below and put them in "reject" storage area.

PASSED \_\_\_\_\_ REJECTED \_\_\_\_\_

Inspectors signature \_\_\_\_\_ Inspection date: \_\_/\_\_/199\_\_





**TRAVELER S-34 part A**  
**(BROMINE check / Pre QA check ONLY)**

**NOTE: This is a Batch traveler**

**BROMINE CHECK FOR:**

**ABDB \_\_\_\_\_ LOAB-OSOR \_\_\_\_\_ LOAB-OSIR \_\_\_\_\_**

**LEFT SIDE ANODE WIRE MOUNT \_\_\_\_\_**

**CERTIFICATION CONFIRMATION**

1. Were the ABDB's, LOAB-OSOR, & LOAB-OSIR you will be Bromine testing checked by LBL Electronic Technology group (Headed by Al Kanzaki) to meet IPC\_A\_600D (Acceptability of Printed Boards) and ANSI/IPC-A-610A (Acceptability of Electronic Assemblies) requirement?

Yes \_\_ , No \_\_

IF THE ANSWER TO QUESTION #1 ABOVE IS **NO** , BAG AND TAG BOARDS with "**NO ELEC. TECH. QA**" AND NOTIFY COGNIZANT ENGINEER. DO NOT GO ANY FURTHER. See instructions below.

2. Is the substrate material (NEMA G-10) certified to contain bromide below 200 ppm.

Yes \_\_ , No \_\_

NEMA G\_10 Purchase Order # :\_(LBL)\_\_\_\_\_

Name of testing Lab:\_\_\_\_\_

Test Certificate #:\_\_\_\_\_

3. Have all components to be bromide tested been UHV cleaned in accordance with STAR cleaning method?

Yes \_\_ , No \_\_

4. Did boards pass Bromine Check using Canary Chamber Test?  
(This is to confirm that board substrate material contain bromide below 200 ppm)

Yes \_\_ , No \_\_

If "**No**", separate failed boards from the batch and record the serial # of each of the failed test board on the Traveler 34 Addendum chart and check off "Bromine check failed" and "REJECTED" cells.

## INSTRUCTIONS

### **For boards without Elec. Tech. pre QA**

Check off "REJECTED" below and place them in the "rejected storage"

### **For boards without UHV cleaning (Using STAR cleaning procedure).**

Check off "REJECTED" below and place them in the "rejected storage with tag "REJECTED-DIRTY" attached

### **For boards that failed Bromine Test**

Group the board failed to pass the bromine test in the seperate bag and tag "REJECTED-BROMIDE" and check off "REJECTED" below and place them in the "reject storage". Write the amount of borad rejected and NOTIFY COGNIZANT ENGINEER.

### **For Boards that passed Bromine Test and ELEC TECH QA pass mark**

Attach this inspection record with tag "PASSED" and place the boards in "to-be-cleaned passed storage" and check off "PASSED" below. Write the number of boards in this group that passed. List the serial numbers below or on a seperate sheet and attach to this traveler.

PASSED \_\_\_\_\_

REJECTED \_\_\_\_\_

Inspectors signature \_\_\_\_\_ Inspection date: \_\_/\_\_/199\_\_



## TRAVELER S-34 part B

### ABDB, LOAB-OSOR, & LOAB-OSIR BURN-IN

FOR Outer \_\_\_\_\_ Inner \_\_\_\_\_ SECTOR SERIAL # \_\_\_\_\_

LEFT SIDE ANODE WIRE MOUNT SERIAL # \_\_\_\_\_

### CERTIFICATION CONFIRMATION

1. Did the LEFT SIDE ANODE WIRE MOUNT to be used have Traveler 08 attached with "PASSED" checked off?  
Yes \_\_ , No \_\_

2. Did the ABDB's, LOAB-OSOR, & LOAB-OSIR have Traveler 34 part A attached with "PASSED" checked off?  
Yes \_\_ , No \_\_

**IF the answer to question #1, #2 or both is NO, bag and tag boards with "REJECTED" then notify cognizant engineer. Place these boards in "rejected storage area".**

3. Have all components to be used in "Burn-In-Test" UHV cleaned and packaged in accordance with STAR cleanliness requirements?  
Yes \_\_ , No \_\_

**IF the answer to question #3 is "NO", bag and tag the components with "NEED TO BE UHV CLEANED".**

**IF the answer to question #3 is "Yes" go to next part of the inspection.**

### ELECTRONIC INSPECTION

- a) Mount eight ABDB, one LOAB-OSOR, and one LOAB-OSIR on to the Left side Anode wire mount.
- b) Place Anode wire mount board with ABDB and LOAB in Left side Anode Wire Mount High Voltage Test tube with 14.7 psi dry nitrogen gas.
- c) Run the Burn-in Voltage of 1600 Volt for 16 hours.

10. Did you observe any sparking from ABDB's and/or LOAB's?

If "Yes" replace ABDB's or LOAB's until sparking is eliminated.

What is the total leakage current reading? \_\_\_\_\_ nA (nano ampere)

**Total Leakage Current must be below 5 nA.**

11. Was total leakage current reading below 5 nA? Yes \_\_, No \_\_

If "No" check the leakage current of every ABDB and LOAB. Each ABDB and LOAB must have leakage current less than 1nA.

12. Does every ABDB and LOAB have less than 1nA leakage current reading? Yes \_\_, No \_\_

If the answer to either question 11 or 12 is **NO**, repeat the questions 11/12 process by replacing ABDB's and LOAB's until the total leakage current is below 5 nA.

All the rejected ABDB's and LOAB's must be bagged and tagged with "**REJECTED / HIGH LEAK CURRENT**". Also indicate each rejected board's leak current.

### INSTRUCTIONS

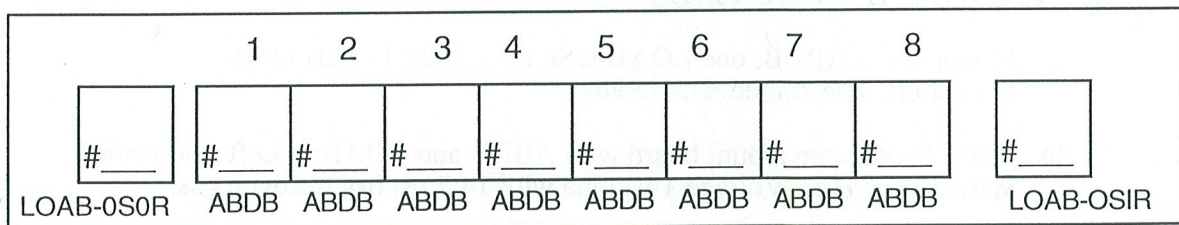
If Left side Anode Wire Mount continues to have problems tag the board "**REJECTED**" and mark below and place it in "**reject storage**". If answers to the all the questions at Electronic Inspection are **YES**, attach this inspection record and place the board in "cleaned / passed storage". Also check off "passed" below. Make comments on a second sheet and attach to this traveller

PASSED \_\_\_\_\_ REJECTED \_\_\_\_\_

Indicate below which LEFT SIDE ANODE WIRE MOUNT was tested.

Also indicate in the diagram below the ABDBs, LOAB-OSOR, and LOAB-OSIR used and their locations on the LEFT SIDE ANODE WIRE MOUNT.

LEFT SIDE ANODE WIRE MOUNT SERIAL # \_\_\_\_\_



Inspector's signature \_\_\_\_\_ Inspection date: \_\_/\_\_/199\_\_



TRAVELER S-35

**NOTE: This is a Batch traveler**

**SHIELD WIRE TERMINATION BOARD BROMINE CHECK AND CONTINUITY TEST.**

**CERTIFICATION CONFIRMATION**

1. Is the substrate material (NEMA G-10) satisfied to contain bromide below 200 ppm. (Bromide content must be confirmed by using Canary chamber)
- Yes \_\_ , No \_\_

NEMA G\_10 Purchase Order # :\_(LBL)\_\_\_\_\_

Name of testing Lab:\_\_\_\_\_

Test Certificate #:\_\_\_\_\_

2. Are Shield wire Termination Board you will be using checked by LBL Electronic Technology group (Headed by Al Kanzaki) to meet IPC\_A\_600D (Acceptability of Printed Boards) and ANSI/IPC-A-610A (Acceptability of Electronic Assemblies) requirement?
- Yes \_\_ , No \_\_

IF THE ANSWER TO QUESTION #1 OR #2 ABOVE IS **NO** ,  
BAG AND TAG BOARDS with **"REJECTED-BROMIDE "or**  
**"REJECTED -NO ELEC. TECH. Q/A "** AND NOTIFY COGNIZANT  
ENGINEER.

**VISUAL INSPECTION**

3. Measling, haloing, exposed fibers and/or delaminations exceeding ANSI/IPC-A-600D Class 3 limits?
- Yes \_\_ , No \_\_
4. Uneven or incomplete etching (use magnifying glass )
- Yes \_\_ , No \_\_
5. Are any traces damaged
- Yes \_\_ , No \_\_
6. When resting on table is the distance from board surface to table more than 0.050 inches?
- Yes \_\_ , No \_\_

7. Does the edge of the board have gouges from improper routing? Yes \_\_, No \_\_
8. Does the break off tab of the board still remained on the board? Yes \_\_, No \_\_

If the answer to any question 3 - 8 is **YES** bag and tag the board with "**REJECTED-VISUAL**". Place these rejected board at rejected item storage area.

If the answer to **ALL** questions 3 - 8 is **NO** go on to next part of the inspection

### DIMENSIONAL INSPECTION

9. Check all Boards  
 REF. DRAWINGS:  
 Shield Wire Termination board DWG# 24A1062 M-1 B  
 Single Board Dimension: 3.10 X 1.370 ± 0.005 in.

Do all Boards conform to these Dimensions and Tolerances: Yes \_\_, No \_\_

If the answer to question 9 is **NO** put the board in the bag and attach a tag with "**REJECTED -DIMENSIONS**" written. Place them in the rejected board storage area.

### ELECTRONIC INSPECTION

10. Did shield wire termination boards passed continuity test? Yes \_\_, No \_\_
11. Did shield wire termination boards passed resistance test? Yes \_\_, No \_\_

### INSTRUCTIONS

If shield wire termination boards have problem tag the board "**REJECTED**" and mark below and place it in "reject" storage. If Left side Anode Wire Mount with ABDB and LOAB marked all the questions **YES**, attach this inspection record and place the board in to-be-cleaned passed storage. Also check off "passed" below.

PASSED \_\_\_\_\_ REJECTED \_\_\_\_\_

Indicate below which Left side Anode wire Mount with ABDB and LOAB was tested.

Also indicate in the diagram below which of the ABDBs, LOAB-OSOR, and LOAB-OSIR are used on the particular LEFT SIDE ANODE WIRE MOUNT.

LEFT SIDE ANODE WIRE MOUNT SERIAL # \_\_\_\_\_



	1	2	3	4	5	6	7	8	
# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
LOAB-OS0R	ABDB	ABDB	ABDB	ABDB	ABDB	ABDB	ABDB	ABDB	LOAB-OSIR

Comment:

---



---



---



---

Inspectors signature \_\_\_\_\_ Inspection date: \_\_/\_\_/199\_\_





**TRAVELER S-35 part A**  
**(BROMINE check / Pre QA check ONLY)**

**NOTE: This is a Batch traveler**  
**BROMINE CHECK FOR SWTB (Shield Wire Termination Board)**

**CERTIFICATION CONFIRMATION**

1. Are SWTB you will be Bromine testing checked by LBL Electronic Technology group (Headed by Al Kanzaki) to meet IPC\_A\_600D (Acceptability of Printed Boards) and ANSI/IPC-A-610A (Acceptability of Electronic Assemblies) requirement?  
Yes \_\_ , No \_\_

IF THE ANSWER TO QUESTION #1 ABOVE IS **NO** , BAG AND TAG BOARDS with "**NO ELEC. TECH. QA**" AND NOTIFY COGNIZANT ENGINEER. DO NOT GO ANY FURTHER. See instructions below.

2. Have every components to be bromide tested were UHV cleaned accordance with STAR cleaning method?  
Yes \_\_ , No \_\_

3. Is the substrate material (NEMA G-10) certified to contain bromide below 200 ppm.  
Yes \_\_ , No \_\_  
NEMA G\_10 Purchase Order # :\_(LBL)\_\_\_\_\_

Name of testing Lab:\_\_\_\_\_

Test Certificate #:\_\_\_\_\_

4. Did boards passed Bromine Check using Canary Chamber Test?  
(This is to confirm that board substrate material contain bromide below 200 ppm)  
Yes \_\_ , No \_\_

If "**No**", separate failed boards from the batch and record the serial # of each of the failed test board on the Traveler 34 Addendum chart and check off "Bromine check failed" and "REJECTED" cells.

**INSTRUCTIONS**

**For board without Elec. Tech. pre QA**

Check off "REJECTED" below and place them in the "rejected storage"  
Amount not pre QA \_\_\_\_\_

**For board without UHV cleaning (Using STAR cleaning procedure).**

Check off "REJECTED" below and place them in the "rejected storage with tag "REJECTED-DIRTY" attached  
Amount dirty \_\_\_\_\_

**For Failed Bromine Test Boards**

Group the board failed to pass the bromine test in the separate bag and tag "REJECTED-BROMIDE" and check off "REJECTED" below and place them in the "reject storage". Write the amount of board rejected and NOTIFY COGNIZANT ENGINEER.

Amount failed \_\_\_\_\_

**For Boards with Passed Bromine Test and ELEC TECH QA pass mark**

Attach this inspection record with tag "PASSED" and place the boards in "to-be-cleaned passed storage" and check off "PASSED" below. Write the amount of boards passed.

Amount passed \_\_\_\_\_

**PASSED** \_\_\_\_\_

**REJECTED** \_\_\_\_\_

Inspectors signature \_\_\_\_\_ Inspection date: \_\_/\_\_/199\_\_