TX36 BOARD HISTORY - EM122 R/V Atlantis

Date	Serial Number	Model	Original Slot Number - before anything done	Final Slot Position	Event Description	BIST Test results description
2014-Apr-21	**212175**	307677 Rv.E	12	**Removed**	Board Failed BIST test. Put in replacement (S/N #211543). Sent board in for repair.	Failed BIST 1 (TX36 test): High Voltage Br. 1 Spec. 108.0-132.0 ->reading for 0-12 1.4; Failed BIST 3 (TRU PowerTest): High Voltage Br. 1 Spec. 108.0-132.0 ->reading for 0-12 0.6
2014-Apr-21	211543		spare - not installed	12	Put in replacement (S/N #211543)	
2014-Oct	212175	307677 Rv. E	spare - not installed - has been repaired	None	Board returned to the ship. It is now in the spares inventory.	
2015-Mar-02	**211543**		12	**Removed**	Identical failure to the first one which occurred in April 2014. Board was from same slot- #12. Data looked normal, LEDs looked normal, but failed BIST. When board positions are swapped, problem follows the board.	Failed BIST 1 (TX36 test): High Voltage Br. 1 Spec. 108.0-132.0 ->reading for 0-12 1.4; Failed BIST 3 (TRU PowerTest): High Voltage Br. 1 Spec. 108.0-132.0 ->reading for 0-12 1.4; Errors BIST 7 (TX Channels): low Z/low voltage on many channels and many slots NOTE: first failed on 28-Feb-2015
2015-Mar-02	212175	307677 Rv. E	spare - not installed	24	TX36 Board presently in slot 24 moved to slot 12. TX36 Board 212175 installed in slot 24.	Still Errors BIST 7 (TX Channels): low Z/low voltage on many channels and many slots
2015-Mar-02	211131		24	12	TX36 Board presently in slot 24 moved to slot 12.	
2015-Apr-28	**212175**	307677 Rv. E	24	**Removed**	Board Failed BIST test.	Failed BIST 1 (TX36 test): High Voltage Br. 1 Spec. 108.0-132.0 ->reading for 0-24 1.4; Failed BIST 3 (TRU PowerTest): High Voltage Br. 1 Spec. 108.0-132.0 ->reading for 0-24 1.4; Errors BIST 7 (TX Channels): low Z/low voltage on many channels and many slots

2015-Apr-28	**211543**		Not Installed - Bad board	**24 bad board installed**	Bad Board, but we have no spares. Installed this board in slot 24. Need to send S/N 212175 in right away as it has already been repaired once.	**STILL FAILING DUE TO BAD BOARD INSTALLED - NO SPARES:** Failed BIST 1 (TX36 test): High Voltage Br. 1 Spec. 108.0-132.0 ->reading for 0-24 1.4; Failed BIST 3 (TRU PowerTest): High Voltage Br. 1 Spec. 108.0-132.0 ->reading for 0-24 1.4; Errors BIST 7 (TX Channels): low Z/low voltage on many channels and many slots
2015-July-09	**211131**		12	**1 bad board installed**	Bad Board, but we have no spares. Installed this board in slot 1. We now have bad boards in slots 1 and 24	Failed BIST 1 (TX36 test): High Voltage Br. 1 Spec. 108.0-132.0 ->reading for 0-12 1.4*; Failed BIST 3 (TRU PowerTest): High Voltage Br. 1 Spec. 108.0-132.0 ->reading for 0-12 1.4*; Errors BIST 7 (TX Channels): low Z/low voltage on many channels and many slots; Also, Bist 8 & 9 initially said "Error - No sample data received"; NOTE: The errors from 2015-Apr-28 for the board in slot 24 still apply.
2015-July-09	211191		1	12	put bad board in slot position 1, moved good board from slot position 1 to slot position 12	
2015-July-14	**211131**		1	**12 bad board installed**	Advised by Kongsberg that there might be something going on with slots 12 and 20, and therefore we should put the bad boards in these positions (in order to protect additional boards from damage)	Moved board to slot 12
2015-July-14	211191		12	1	Slot 12 has a lot of "low voltage" errors which may indicate issues with the slot. Kongsberg directed us to put one of the bad boards in that slot instead of a good one - just incase the slot is causing issues that will cause boards to fail.	Moved good board from slot 12 to slot 1
2015-July-14	**211543**		24	**20 bad board installed**	Advised by Kongsberg that there might be something going on with slots 12 and 20, and therefore we should put the bad boards in these positions (in order to protect additional boards from damage)	Moved board to slot 20
2015-July-14	212173		20	24	Slot 20 has a lot of "low voltage" errors which may indicate issues with the slot. Kongsberg directed us to put one of the bad boards in that slot instead of a good one - just incase the slot is causing issues that will cause boards to fail.	Moved good board from slot 20 to slot 24