HARRIS

Aurora™ 5800

Troubleshooting Guide

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When the radio hop is operating normally:

- **The PWR lamp (green LED) is lighted.**
- **The TX ALM and RX ALM lamps (red LEDs) are extinguished (not lighted).**
- **The RSSI test jack voltage level (measured with a Voltmeter) is between 0 and 4.8 Vdc.**
- **A T1 (or E1) loopback test indicates no errors.**

Trouble Symptoms and Suggested Corrective Actions

No.	TROUBLE SYMPTOM	CORRECTIVE ACTION
1	No communication link between two Aurora radios in the hop and the PWR lamp (green LED) is OFF.	1) Make sure the power switches on the radios at both ends of the hop are turned ON. 2) Check the connections to the power source. 3) Check the power source itself for availability of power.
2	No communication link between two radios in the hop and the PWR LED is lighted.	1) Make sure far-end radio is turned ON. 2) Check the RSSI voltage level. 3) Check all cables for proper and secure connections. 4) Check the antennas for proper “line-of-sight” alignment.
3	The TX ALM lamp (red LED) is lighted.	1) The transmit output power level may be too low (3 dB lower than nominal).
4	The RX ALM lamp (red LED) is lighted.	1) Check the RSSI voltage level. 2) Check the antennas for proper alignment. 3) Check the transmit output power at the distant end; the power to the Rx end is too low.
5	LOS Alarm	1) Loss of signal (LOS) means the DS1/E1 signal is missing at the input of the modem board.

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6	BER is high; too many errors.	1) Check and make sure that the Transmitter Spread Sequence at the far end matches the Receiver Spread Sequence at the near end of the hop. 2) Rotate the polarization of the antenna at both ends of the link by 90 degrees. 3) If still no improvement is achieved after step 2), use the Aurora 5800 utility software and change the transmit and receive spread sequence numbers.

For detailed troubleshooting information, refer to Chapter 7 in the *Aurora Reference Manual*.