



AMOS LINE-UP PROCEDURE

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PREPARATIONS
1. Make all necessary station tests to ensure proper operation of the uplink and downlink chains.
2. Use a RF spectrum analyzer on the monitor point of the HPA to observe its transmit spectrum (look for spurious carriers, IM products or thermal noise above the allowed level).
3. Make an accurate alignment of the antenna and feed polarization.
4. To pick the antenna, the satellite's telemetry beacon can be used at the following frequencies (circular polarization):
AMOS-2: 11,200.000MHz; 10,949.000MHz AMOS-3: 11,449.000MHz; 11,700.000MHz

LINE-UP PROCEDURE		
No	Customer Uplink	AMOS GCC
1	Monitor with a spectrum analyzer the allocated frequency band on the transponder to ensure the band is free from any spurious or interference.	Monitor with a spectrum analyzer the allocated frequency band on the transponder to ensure the band is free from any activated carriers or interference.
2	Contact AMOS GCC to obtain authorization to begin testing over the satellite.	Confirm the carrier's parameters with the user (Center Frequency, Bandwidth and EIRP) as per the respective transmission order.
3	Under the guidance of AMOS GCC transmit an unmodulated carrier on the assigned frequency at no more than 20 dB below the allocated transmit level.	Measure the carrier's center frequency and D/L EIRP.
4	Adjust center-frequency and EIRP gradually in steps under the guidance of AMOS GCC.	
5	Modulate the carrier. Adjust U/L EIRP under the guidance of AMOS GCC to achieve the nominal D/L EIRP.	Measure the carrier's bandwidth and D/L EIRP.
6	Per AMOS GCC instructions increase or decrease U/L EIRP by a few dB's and/or turn-off the carrier momentarily. User may also be requested to provide a spectrum analyzer plot of the U/L HPA's output.	Monitor the full transponder's band to ensure that transponder's noise level has not changed and/or spurious carriers not observed.
7	The user can measure the received C/N or Eb/N0 performance to verify the expected values. Receive Margin tests is highly recommended for DVB and SCPS digital carriers (see AEST202-Digital TV Carriers Test Procedure).	Assist the user with EIRP measurements for various receive levels.
8	Additional testing is optional and may be conducted by the user to ensure that the desired performance is achieved.	Assist the user with additional testing if required.