

AMOS SPACE SEGMENT ASSIGNMENT

IMPORTANT:	Carrier activation or de-activation must be coordinated with AMOS CSC. Please contact AMOS CSC @ +972-77-2492222 and follow the attached line-up procedure. This Transmission Order is applicable only to the AMOS authorized uplink listed below. Please verify your contact details below and update AMOS CSC if necessary.
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Order Number:	
Order Date:	
Customer Name:	
AMOS Uplink Station Code:	
Transmission Type:	
Satellite / Beam:	
Start Date:	
End Date:	
Comments:	

UPLINK CONTACT INFO		2nd CONTACT INFO		
Tel:		Tel:		
Fax:		Fax:		
Name:		Name:		
Company:		Company:		

TRANSMISSION PLAN							
Carrier No	U/L TX / Pol	D/L TX / Pol	Carrier Designator	U/L Center Freq	D/L Center Freq	BW (MHz)	EIRP @ Beam Center (dBW)
1							
2							
3							
4							
5							
6							

AMOS CSC APPROVAL			
Line-Up by:	Date/Time:	Name:	Signature:
CMS No:	Polarization Checked:	Measured EIRP:	
	U/L Power Level:	U/L EIRP:	
Comments:			

AMOS LINE-UP PROCEDURE

SPACECOM CONTACT INFO			
AMOS Customer Service Center Contact		Spacecom Head Office Contact	
Tel:	+972-77-2492222	Tel:	+972-3-7551000
Fax:	+972-3-7551001	Fax:	+972-3-7551001
Emergency Tel:	+972-73-2276660		
Email:	CSC@amos-spacecom.com		

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-3: 11,449.000MHz; 11,700.000MHz AMOS-7 ME(V) 11,450.115MHz; ME(H) 11,450.345MHz AMOS-7 CEE(H) 12,250.250MHz; PE(H) 11,450.115MHz

LINE-UP PROCEDURE		
No	Customer Uplink	AMOS CSC
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 CSC 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
3	If relevant, perform XPOL Check per steps 4,5,6 below.	If relevant, perform XPOL Check per steps 4,5,6 below.
4	Transmit an un-modulated carrier at the XPOL test frequency as assigned by AMOS CSC.	Allocate a test frequency at the edge of the XPOL transponder for a CW transmission.
5	Increase transmit U/L power according to AMOS CSC instructions.	Measure the C/N of the COPOL (RBW = ~1KHz) and instruct the customer to increase its U/L power until you reach C/N of ~40dB.
6	Align the polarization until best performance is achieved according to AMOS CSC.	Instruct the customer to align its polarization while looking for lowest Null. Measure the XPOL C/N and verify that the XPOL isolation is at least 30dB.
7	Under the guidance of AMOS CSC, transmit an un-modulated carrier on the assigned frequency	Measure the carrier's center frequency and D/L EIRP.
8	Adjust center-frequency under the guidance of	
9	Modulate the carrier.	Measure and verify the carrier's bandwidth.
10	Adjust U/L EIRP gradually and in steps under the guidance of AMOS CSC up to 2dB below the	Measure the carrier's D/L EIRP.
11	Adjust U/L EIRP gradually and in steps up to the allocated value.	Measure and verify that the carrier's D/L EIRP matches the allocated value.
12	Per AMOS CSC instructions, turn off/on the carrier. User may also be asked 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. Register U/L Power Level and EIRP.
13	The user can measure the received C/N or Eb/NO performance to verify the expected values. Receive Margin tests is highly recommended for	Assist the user with EIRP and C/N measurements for various receive levels.
14	Additional testing is optional and may be	Assist the user with additional testing if required.