

UPLINK BEAM INFORMATION				
Uplink Beam Name	Mexico 1	Mexico 1	Mexico 1	Mexico 1
Uplink Frequency (GHz)	13.75-14.5	13.75-14.5	13.75-14.5	13.75-14.5
Uplink Beam Polarization	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Uplink Beam Peak G/T (dB/K)	11.0	11.0	11.0	11.0
Uplink Beam Peak SFD (dBW/m2)	-94.3	-83.3	-83.3	-83.3
Uplink Relative Contour Level (dB)	-6	-6	-6	-6
DOWNLINK BEAM INFORMATION				
Downlink Beam Name	Mexico 1	Mexico 1	Mexico 1	Mexico 1
Downlink Frequency (GHz)	11.7-12.2	11.7-12.2	11.7-12.2	11.7-12.2
Downlink Beam Polarization	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Downlink Beam Peak EIRP (dBW)	55.1	55.1	55.1	55.1
Downlink Relative Contour Level (dB)	-6	-6	-6	-6
ADJACENT SATELLITE 1				
Satellite Name	AMC-2	AMC-2	AMC-2	AMC-2
Orbital Location	80.8W	80.8W	80.8W	80.8W
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0
Beam Peak Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0
ADJACENT SATELLITE 2				
Satellite Name	HYP 77W	HYP 77W	HYP 77W	HYP 77W
Orbital Location	77.0W	77.0W	77.0W	77.0W
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0
Beam Peak Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0
CARRIER INFORMATION				
Carrier ID	36M0G7W	8M25G7W	1M54G7W	222KG7W
Carrier Modulation	QPSK	QPSK	QPSK	QPSK
Information Rate(kbps)	36860	8.448	1024	256
Code Rate	3/4x188/203	3/4	1/2	3/4
Occupied Bandwidth(kHz)	26664.7	6111.3	1232.9	170.7
Allocated Bandwidth(kHz)	36000	8250.5	1541.5	239
Minimum C/N, Rain (dB)	7.3	7.3	1.6	4.6
UPLINK EARTH STATION				
Earth Station Diameter (meters)	1.2	1.2	1.2	1.2
Earth Station Gain (dBi)	42.6	42.6	42.6	42.6
DOWNLINK EARTH STATION				
Earth Station Diameter (meters)	1.8	1.8	1.2	1.2
Earth Station Gain (dBi)	44.5	44.5	40.9	40.9
Earth Station G/T (dB/K)	23.3	23.3	19.8	19.8
UPLINK PERFORMANCE				
Uplink Earth Station EIRP (dBW)	64.8	59.6	52.6	44.1
Uplink Path Loss, Clear Sky (dB)	-207.1	-207.1	-207.1	-207.1
Satellite G/T(dB/K)	5.1	5.1	5.1	5.1
Boltzman Constant(dBW/K-Hz)	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (MHz)	26.7	6.1	1.2	0.2
Uplink Thermal C/N(dB)	17.1	18.3	18.3	18.4
DOWNLINK PERFORMANCE				
Downlink EIRP per Carrier (dBW)	42.6	36.4	29.4	20.8
Downlink Path Loss, Clear Sky (dB)	-205.5	-205.5	-205.5	-205.5
Downlink Earth Station G/T (dB/K)	23.3	23.3	19.8	19.8
Boltzman Constant(dBW/K-Hz)	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (MHz)	26.7	6.1	1.2	0.2
Downlink Thermal C / N(dB)	14.7	14.9	11.4	11.4
COMPOSITE LINK PERFORMANCE				
Uplink Earth Station HPA Intermodulation C/N (dB)	27.0	28.2	28.1	28.1
C/N Thermal Uplink (dB)	17.1	18.3	18.3	18.4

Uplink Interference C/I (dB)	24.2	26.5	22.8	22.8
Uplink Adjacent Satellite C/I (dB)	15.4	16.6	16.5	16.5
Intermodulation C/IM (dB)	200.0	39.9	40.7	41.8
Downlink Thermal C/N (dB)	14.7	14.9	11.4	11.4
Downlink Interference C/I (dB)	28.8	24.4	22.7	23.1
Downlink Adjacent Satellite C/I (dB)	13.7	13.9	9.3	9.2
Subtotal C/N (dB)	8.9	9.4	6.2	6.2
Antenna Mispointing and Other Losses (dB)	1.5	1.5	1.5	1.5
Total C/N (dB)	7.4	7.9	4.7	4.7
Minimum Required C/N (dB)	7.3	7.3	1.6	4.6
Number of Carriers	1	4	23	151
CARRIER DENSITY LEVELS				
Uplink Power Density (dBW/Hz)	-52.1	-50.9	-50.9	-50.8
Downlink EIRP Density At Beam Peak (dBW/Hz)	-26.2	-26.0	-26.0	-26.0

UPLINK BEAM INFORMATION				
Uplink Beam Name	Mexico 1	Mexico 1	Mexico 1	Mexico 1
Uplink Frequency (GHz)	13.75-14.5	13.75-14.5	13.75-14.5	13.75-14.5
Uplink Beam Polarization	Horizontal	Horizontal	Horizontal	Horizontal
Uplink Beam Peak G/T (dB/K)	11.0	11.0	11.0	11.0
Uplink Beam Peak SFD (dBW/m2)	-91.3	-85.3	-85.3	-85.3
Uplink Relative Contour Level (dB)	-6	-6	-6	-6
DOWNLINK BEAM INFORMATION				
Downlink Beam Name	Mexico 2	Mexico 2	Mexico 2	Mexico 2
Downlink Frequency (GHz)	11.7-12.2	11.7-12.2	11.7-12.2	11.7-12.2
Downlink Beam Polarization	Vertical	Vertical	Vertical	Vertical
Downlink Beam Peak EIRP (dBW)	57.5	57.5	57.5	57.5
Downlink Relative Contour Level (dB)	-6	-6	-6	-6
ADJACENT SATELLITE 1				
Satellite Name	AMC-2	AMC-2	AMC-2	AMC-2
Orbital Location	80.8W	80.8W	80.8W	80.8W
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0
Beam Peak Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0
ADJACENT SATELLITE 2				
Satellite Name	HYP 77W	HYP 77W	HYP 77W	HYP 77W
Orbital Location	77.0W	77.0W	77.0W	77.0W
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0
Beam Peak Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0
CARRIER INFORMATION				
Carrier ID	36M0G7W	8M25G7W	1M54G7W	222KG7W
Carrier Modulation	QPSK	QPSK	QPSK	QPSK
Information Rate(kbps)	36860	8.448	1024	256
Code Rate	3/4x188/203	3/4	1/2	3/4
Occupied Bandwidth(kHz)	26664.7	6111.3	1232.9	170.7
Allocated Bandwidth(kHz)	36000	8250.5	1541.5	239
Minimum C/N, Rain (dB)	7.3	7.3	1.6	4.6
UPLINK EARTH STATION				
Earth Station Diameter (meters)	1.2	1.8	1.8	2.4
Earth Station Gain (dBi)	42.6	46.2	46.2	48.7
DOWNLINK EARTH STATION				
Earth Station Diameter (meters)	1.8	1.8	1.2	1.2
Earth Station Gain (dBi)	44.5	44.5	40.9	40.9
Earth Station G/T (dB/K)	23.3	23.3	19.8	19.8
UPLINK PERFORMANCE				
Uplink Earth Station EIRP (dBW)	64.7	64.1	57.1	48.9
Uplink Path Loss, Clear Sky (dB)	-207.1	-207.1	-207.1	-207.1
Satellite G/T(dB/K)	5.1	5.1	5.1	5.1
Boltzman Constant(dBW/K-Hz)	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (MHz)	26.7	6.1	1.2	0.2
Uplink Thermal C/N(dB)	17.0	22.8	22.8	23.2
DOWNLINK PERFORMANCE				
Downlink EIRP per Carrier (dBW)	42.5	36.0	29.0	20.8
Downlink Path Loss, Clear Sky (dB)	-205.5	-205.5	-205.5	-205.5
Downlink Earth Station G/T (dB/K)	23.3	23.3	19.8	19.8
Boltzman Constant(dBW/K-Hz)	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (MHz)	26.7	6.1	1.2	0.2
Downlink Thermal C / N(dB)	14.6	14.5	11.0	11.4
COMPOSITE LINK PERFORMANCE				
Uplink Earth Station HPA Intermodulation C/N (dB)	26.9	32.7	32.6	33.0
C/N Thermal Uplink (dB)	17.0	22.8	22.8	23.2

Uplink Interference C/I (dB)	31.4	38.6	34.1	34.4
Uplink Adjacent Satellite C/I (dB)	15.2	21.0	20.9	21.3
Intermodulation C/IM (dB)	200.0	34.3	35.9	36.4
Downlink Thermal C/N (dB)	14.6	14.5	10.6	11.4
Downlink Interference C/I (dB)	27.5	24.0	21.9	22.4
Downlink Adjacent Satellite C/I (dB)	13.5	13.4	8.0	8.4
Subtotal C/N (dB)	8.8	10.1	5.7	6.3
Antenna Mispointing and Other Losses (dB)	1.5	1.5	1.5	1.5
Total C/N (dB)	7.3	8.6	4.2	4.8
Minimum Required C/N (dB)	7.3	7.3	1.6	4.6
Number of Carriers	1	4	23	151
CARRIER DENSITY LEVELS				
Uplink Power Density (dBW/Hz)	-52.2	-50.0	-50.0	-52.1
Downlink EIRP Density At Beam Peak (dBW/Hz)	-26.3	-26.4	-26.4	-26.0