

Exhibit 4: Link Budgets

[Channel Bandwidth: 27 MHz]

UPLINK BEAM INFORMATION						
Uplink Beam Name	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe
Uplink Frequency (MHz)	14000 – 14500	14000 – 14500	14000 – 14500	14000 – 14500	14000 – 14500	14000 – 14500
Uplink Beam Polarization	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Uplink Relative Contour Level (dB)	-6	-6	-6	-6	-6	-6
Uplink Contour G/T (dB/K)	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Uplink SFD (dBW/m ²)	-82.3	-82.3	-82.3	-72.3	-72.3	-72.3
Rain Rate (mm/hr)	22	22	22	22	22	22
DOWNLINK BEAM INFORMATION						
Downlink Beam Name	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe
Downlink Frequency (MHz)	11700 – 12200	11700 – 12200	11700 – 12200	11700 – 12200	11700 – 12200	11700 – 12200
Downlink Beam Polarization	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Downlink Relative Contour Level (dB)	-6	-6	-6	-6	-6	-6
Downlink Contour EIRP (dBW)	43.2	43.2	43.2	43.2	43.2	43.2
Rain Rate (mm/hr)	22	22	22	22	22	22
ADJACENT SATELLITE 1						
Satellite 1 Orbital Location	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
Uplink Polarization Advantage (dB)	0	0	0	0	0	0
Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
Downlink Polarization Advantage (dB)	0	0	0	0	0	0
ADJACENT SATELLITE 2						
Satellite 2 Orbital Location	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
Uplink Polarization Advantage (dB)	0	0	0	0	0	0
Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
Downlink Polarization Advantage (dB)	0	0	0	0	0	0
CARRIER INFORMATION						
Carrier ID	1	1	1	2	2	2
Emission Designation	27M0F3F	27M0F3F	27M0F3F	27M0G7W	27M0G7W	27M0G7W
Information Rate (kbps)	n/a	n/a	n/a	27647	27647	27647
Carrier Modulation	TV/FM	TV/FM	TV/FM	QPSK	QPSK	QPSK
Peak to Peak Bandwidth of EDS (MHz)	4.0	4.0	4.0	n/a	n/a	n/a
Code Rate	n/a	n/a	n/a	3/4 w/RS	3/4 w/RS	3/4 w/RS
Occupied Bandwidth (kHz)	27000	27000	27000	22600	22600	22600
Allocated Bandwidth (kHz)	27000	27000	27000	27000	27000	27000
Minimum C/N, Clear Sky (dB)	10.0	10.0	10.0	6.1	6.1	6.1
Minimum C/N, Rain (dB)	10.0	10.0	10.0	6.1	6.1	6.1
UPLINK EARTH STATION						
Earth Station Diameter (meters)	6.1	6.1	6.1	6.1	6.1	6.1
Earth Station Gain (dBi)	56.9	56.9	56.9	56.9	56.9	56.9
Earth Station Elevation Angle	20.0	20.0	20.0	20.0	20.0	20.0
DOWNLINK EARTH STATION						
Earth Station Diameter (meters)	2.4	2.4	2.4	3.0	3.0	3.0
Earth Station Gain (dBi)	47.5	47.5	47.5	49.2	49.2	49.2
Earth Station G/T (dB/K)	25.0	25.0	23.0	26.7	26.7	24.9
Earth Station Elevation Angle	20.0	20.0	20.0	20.0	20.0	20.0
LINK FADE TYPE						
	Clear Sky	Uplink Fade	Downlink Fade	Clear Sky	Uplink Fade	Downlink Fade
UPLINK PERFORMANCE						
Uplink Earth Station EIRP (dBW)	80.6	80.6	80.6	80.3	80.3	80.3
Uplink Path Loss, Clear Sky (dB)	-207.5	-207.5	-207.5	-207.5	-207.5	-207.5
Uplink Rain Attenuation (dB)	0.0	-5.1	0.0	0.0	-2.3	0.0
Satellite G/T (dB/K)	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Boltzman Constant (dBW/K-Hz)	228.6	228.6	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (dB-Hz)	-73.8	-73.8	-73.8	-73.5	-73.5	-73.5
Uplink C/N (dB)	24.2	19.2	24.2	24.2	21.9	24.2
DOWNLINK PERFORMANCE						
Downlink EIRP per Carrier (dBW)	43.2	41.4	43.2	36.6	34.4	36.6
Antenna Pointing Error (dB)	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Downlink Path Loss, Clear Sky (dB)	-205.9	-205.9	-205.9	-205.9	-205.9	-205.9
Downlink Rain Attenuation (dB)	0.0	0.0	-2.0	0.0	0.0	-1.7
Earth Station G/T (dB/K)	25.0	25.0	23.0	26.7	26.7	24.9
Boltzman Constant (dBW/K-Hz)	228.6	228.6	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (dB-Hz)	-73.8	-73.8	-73.8	-73.5	-73.5	-73.5
Downlink C/N (dB)	16.5	14.8	12.5	11.9	9.7	8.5
COMPOSITE LINK PERFORMANCE						
C/N Uplink (dB)	24.2	19.2	24.2	24.2	21.9	24.2
C/N Downlink (dB)	16.5	14.8	12.5	11.9	9.7	8.5
C/I Intermodulation (dB)	n/a	n/a	n/a	n/a	n/a	n/a
C/I Uplink Co-Channel (dB)*	27.5	22.4	27.5	26.7	24.4	26.7
C/I Downlink Co-Channel (dB)*	27.5	25.7	27.5	26.7	24.5	26.7
C/I Uplink Adjacent Satellite 1 (dB)	32.8	27.7	32.8	32.8	30.5	32.8
C/I Downlink Adjacent Satellite 1 (dB)	20.6	18.8	20.6	16.1	13.9	16.1
C/I Uplink Adjacent Satellite 2 (dB)	32.8	27.7	32.8	32.8	30.5	32.8
C/I Downlink Adjacent Satellite 2 (dB)	22.2	20.4	22.2	17.4	15.2	17.4
C/(N+I) Composite (dB)	13.4	11.0	11.0	9.3	7.1	7.1
Required System Margin (dB)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Net C/(N+I) Composite (dB)	12.4	10.0	10.0	8.3	6.1	6.1
Minimum Required C/N (dB)	-10.0	-10.0	-10.0	-6.1	-6.1	-6.1
Excess Link Margin (dB)	2.4	0.0	0.0	2.2	0.0	0.0
Number of Carriers	1.0	1.0	1.0	1.0	1.0	1.0
Carrier Density Levels						
Uplink Power Density (dBW/Hz)	-42.3	-42.3	-42.3	-50.1	-50.1	-50.1
Downlink EIRP Density At Beam Peak	-16.8	-18.6	-16.8	-30.9	-33.1	-30.9

*Note: The C/I level is adjusted depending on the signal level and transponder mode of operation.

Exhibit 4: Link Budgets (continued)

[Channel Bandwidth: 27 MHz]

UPLINK BEAM INFORMATION						
Uplink Beam Name	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe
Uplink Frequency (MHz)	14000 - 14500	14000 - 14500	14000 - 14500	14000 - 14500	14000 - 14500	14000 - 14500
Uplink Beam Polarization	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Uplink Relative Contour Level (dB)	-6	-6	-6	-6	-6	-6
Uplink Contour G/T (dB/K)	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Uplink SFD (dBW/m ²)	-86.3	-86.3	-86.3	-86.3	-86.3	-86.3
Rain Rate (mm/hr)	22	22	22	22	22	22
DOWNLINK BEAM INFORMATION						
Downlink Beam Name	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe
Downlink Frequency (MHz)	11700 - 12200	11700 - 12200	11700 - 12200	11700 - 12200	11700 - 12200	11700 - 12200
Downlink Beam Polarization	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Downlink Relative Contour Level (dB)	-6	-6	-6	-6	-6	-6
Downlink Contour EIRP (dBW)	43.2	43.2	43.2	43.2	43.2	43.2
Rain Rate (mm/hr)	22	22	22	22	22	22
ADJACENT SATELLITE 1						
Satellite 1 Orbital Location	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
Uplink Polarization Advantage (dB)	0	0	0	0	0	0
Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
Downlink Polarization Advantage (dB)	0	0	0	0	0	0
ADJACENT SATELLITE 2						
Satellite 2 Orbital Location	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
Uplink Polarization Advantage (dB)	0	0	0	0	0	0
Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
Downlink Polarization Advantage (dB)	0	0	0	0	0	0
CARRIER INFORMATION						
Carrier ID	3	3	3	4	4	4
Emission Designation	10M3G7W	10M3G7W	10M3G7W	100KG7W	100KG7W	100KG7W
Information Rate (kbps)	6000.0	6000.0	6000.0	64.0	64.0	64.0
Carrier Modulation	QPSK	QPSK	QPSK	QPSK	QPSK	QPSK
Peak to Peak Bandwidth of EDS (MHz)	n/a	n/a	n/a	n/a	n/a	n/a
Code Rate	1/2 w/ RS	1/2 w/ RS	1/2 w/ RS	1/2 w/ RS	1/2 w/ RS	1/2 w/ RS
Occupied Bandwidth (kHz)	6771.1	6771.1	6771.1	75.4	75.4	75.4
Allocated Bandwidth (kHz)	10300.0	10300.0	10300.0	100.0	100.0	100.0
Minimum C/N, Clear Sky (dB)	3.9	3.9	3.9	3.0	3.0	3.0
Minimum C/N, Rain (dB)	3.6	3.6	3.6	2.8	2.8	2.8
UPLINK EARTH STATION						
Earth Station Diameter (meters)	6.1	6.1	6.1	6.1	6.1	6.1
Earth Station Gain (dBi)	56.9	56.9	56.9	56.9	56.9	56.9
Earth Station Elevation Angle	20.0	20.0	20.0	20.0	20.0	20.0
DOWNLINK EARTH STATION						
Earth Station Diameter (meters)	1.8	1.8	1.8	1.2	1.2	1.2
Earth Station Gain (dBi)	44.8	44.8	44.8	41.3	41.3	41.3
Earth Station G/T (dB/K)	22.3	22.3	20.6	18.8	18.8	17.1
Earth Station Elevation Angle	20.0	20.0	20.0	20.0	20.0	20.0
LINK FADE TYPE						
	Clear Sky	Uplink Fade	Downlink Fade	Clear Sky	Uplink Fade	Downlink Fade
UPLINK PERFORMANCE						
Uplink Earth Station EIRP (dBW)	64.9	64.9	64.9	47.6	47.6	47.6
Uplink Path Loss, Clear Sky (dB)	-207.5	-207.5	-207.5	-207.5	-207.5	-207.5
Uplink Rain Attenuation (dB)	0.0	-1.8	0.0	0.0	-1.9	0.0
Satellite G/T (dB/K)	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Boltzman Constant (dBW/K-Hz)	228.6	228.6	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (dB-Hz)	-68.3	-68.3	-68.3	-48.8	-48.8	-48.8
Uplink C/N (dB)	14.0	12.2	14.0	16.2	14.4	16.2
DOWNLINK PERFORMANCE						
Downlink EIRP per Carrier (dBW)	34.0	32.3	34.0	16.7	14.8	16.7
Antenna Pointing Error (dB)	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Downlink Path Loss, Clear Sky (dB)	-205.9	-205.9	-205.9	-205.9	-205.9	-205.9
Downlink Rain Attenuation (dB)	0.0	0.0	-1.6	0.0	0.0	-1.6
Earth Station G/T (dB/K)	22.3	22.3	20.6	18.8	18.8	17.1
Boltzman Constant (dBW/K-Hz)	228.6	228.6	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (dB-Hz)	-68.3	-68.3	-68.3	-48.8	-48.8	-48.8
	-48.8	8.5	6.8	8.8	7.0	5.6
COMPOSITE LINK PERFORMANCE						
C/N Uplink (dB)	14.0	12.2	14.0	16.2	14.4	16.2
C/N Downlink (dB)	10.1	8.5	6.8	8.8	7.0	5.6
C/I Intermodulation (dB)	17.1	16.3	17.1	19.3	17.5	19.3
C/I Uplink Co-Channel (dB)*	25.5	23.6	25.5	28.3	26.4	28.3
C/I Downlink Co-Channel (dB)*	25.5	23.8	25.5	28.3	26.4	28.3
C/I Uplink Adjacent Satellite 1 (dB)	22.6	20.8	22.6	24.8	23.0	24.8
C/I Downlink Adjacent Satellite 1 (dB)	13.9	12.2	13.9	11.7	9.9	11.7
C/I Uplink Adjacent Satellite 2 (dB)	22.6	20.8	22.6	24.8	23.0	24.8
C/I Downlink Adjacent Satellite 2 (dB)	16.0	14.3	16.0	15.2	13.3	15.2
C/(N+I) Composite (dB)	6.2	4.6	4.6	5.6	3.8	3.8
Required System Margin (dB)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Net C/(N+I) Composite (dB)	5.2	3.6	3.6	4.6	2.8	2.8
Minimum Required C/N (dB)	-3.9	-3.6	-3.6	-3.0	-2.8	-2.8
Excess Link Margin (dB)	1.3	0.0	0.0	1.6	0.0	0.0
Number of Carriers	2.6	2.6	2.6	200.2	200.2	200.2
Carrier Density Levels						
Uplink Power Density (dBW/Hz)	-60.3	-60.3	-60.3	-58.1	-58.1	-58.1
Downlink EIRP Density At Beam Peak	-28.3	-30.0	-28.3	-26.1	-28.0	-26.1

*Note: The C/I level is adjusted depending on the signal level and transponder mode of operation.

Exhibit 4: Link Budgets (continued)

[Channel Bandwidth: 27 MHz]

UPLINK BEAM INFORMATION		Middle East-Europe 14000 – 14500	Middle East-Europe 14000 – 14500	Middle East-Europe 14000 – 14500	Middle East-Europe 14000 – 14500	Middle East-Europe 14000 – 14500	Middle East-Europe 14000 – 14500
Uplink Beam Name							
Uplink Frequency (MHz)		Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Uplink Beam Polarization		-6	-6	-6	-6	-6	-6
Uplink Relative Contour Level (dB)		-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Uplink Contour G/T (dB/K)		-86.3	-86.3	-86.3	-86.3	-86.3	-86.3
Uplink SFD (dBW/m ²)		22	22	22	22	22	22
Rain Rate (mm/hr)							
DOWNLINK BEAM INFORMATION		Middle East-Europe 11700 – 12200	Middle East-Europe 11700 – 12200	Middle East-Europe 11700 – 12200	Middle East-Europe 11700 – 12200	Middle East-Europe 11700 – 12200	Middle East-Europe 11700 – 12200
Downlink Beam Name							
Downlink Frequency (MHz)		Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Downlink Beam Polarization		-6	-6	-6	-6	-6	-6
Downlink Relative Contour Level (dB)		43.2	43.2	43.2	43.2	43.2	43.2
Downlink Contour EIRP (dBW)		22	22	22	22	22	22
Rain Rate (mm/hr)							
ADJACENT SATELLITE 1		48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L
Satellite 1 Orbital Location		-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
Uplink Power Density (dBW/Hz)		0	0	0	0	0	0
Uplink Polarization Advantage (dB)		-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
Downlink EIRP Density (dBW/Hz)		0	0	0	0	0	0
Downlink Polarization Advantage (dB)							
ADJACENT SATELLITE 2		50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L
Satellite 2 Orbital Location		-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
Uplink Power Density (dBW/Hz)		0	0	0	0	0	0
Uplink Polarization Advantage (dB)		-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
Downlink EIRP Density (dBW/Hz)		0	0	0	0	0	0
Downlink Polarization Advantage (dB)							
CARRIER INFORMATION		5	5	5	6	6	6
Carrier ID		1M45G7W	1M45G7W	1M45G7W	400KG7W	400KG7W	400KG7W
Emission Designation		512.0	512.0	512.0	128.0	128.0	128.0
Information Rate (kbps)		BPSK	BPSK	BPSK	BPSK	BPSK	BPSK
Carrier Modulation		n/a	n/a	n/a	n/a	n/a	n/a
Peak to Peak Bandwidth of EDS (MHz)		1/2	1/2	1/2	1/2	1/2	1/2
Code Rate		1229.0	1229.0	1229.0	307.0	307.0	307.0
Occupied Bandwidth (kHz)		1450.0	1450.0	1450.0	400.0	400.0	400.0
Allocated Bandwidth (kHz)		3.4	3.4	3.4	3.4	3.4	3.4
Minimum C/N, Clear Sky (dB)		2.7	2.7	2.7	2.7	2.7	2.7
Minimum C/N, Rain (dB)							
UPLINK EARTH STATION		6.1	6.1	6.1	1.2	1.2	1.2
Earth Station Diameter (meters)		56.9	56.9	56.9	42.9	42.9	42.9
Earth Station Gain (dBi)		20.0	20.0	20.0	20.0	20.0	20.0
Earth Station Elevation Angle							
DOWNLINK EARTH STATION		1.2	1.2	1.2	6.1	6.1	6.1
Earth Station Diameter (meters)		41.3	41.3	41.3	55.5	55.5	55.5
Earth Station Gain (dBi)		18.8	18.8	17.1	33.1	33.1	30.2
Earth Station G/T (dB/K)		20.0	20.0	20.0	20.0	20.0	20.0
Earth Station Elevation Angle							
LINK FADE TYPE		Clear Sky	Uplink Fade	Downlink Fade	Clear Sky	Uplink Fade	Downlink Fade
UPLINK PERFORMANCE		59.6	59.6	59.6	46.0	46.0	46.0
Uplink Earth Station EIRP (dBW)		-207.5	-207.5	-207.5	-207.5	-207.5	-207.5
Uplink Path Loss, Clear Sky (dB)		0.0	-1.9	0.0	0.0	-1.4	0.0
Uplink Rain Attenuation (dB)		-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Satellite G/T (dB/K)		228.6	228.6	228.6	228.6	228.6	228.6
Boltzman Constant (dBW/K-Hz)		-60.9	-60.9	-60.9	-54.9	-54.9	-54.9
Carrier Noise Bandwidth (dB-Hz)		16.1	14.2	16.1	8.5	7.2	8.5
Uplink C/N (dB)							
DOWNLINK PERFORMANCE		28.7	26.9	28.7	15.1	13.7	15.1
Downlink EIRP per Carrier (dBW)		-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Antenna Pointing Error (dB)		-205.9	-205.9	-205.9	-205.9	-205.9	-205.9
Downlink Path Loss, Clear Sky (dB)		0.0	0.0	0.0	0.0	0.0	0.0
Downlink Rain Attenuation (dB)		18.8	18.8	17.1	33.1	33.1	30.2
Earth Station G/T (dB/K)		228.6	228.6	228.6	228.6	228.6	228.6
Boltzman Constant (dBW/K-Hz)		-60.9	-60.9	-60.9	-54.9	-54.9	-54.9
Carrier Noise Bandwidth (dB-Hz)		-48.8	6.9	5.5	15.5	14.1	8.4
Downlink C/N (dB)							
COMPOSITE LINK PERFORMANCE		16.1	14.2	16.1	8.5	7.2	8.5
C/N Uplink (dB)		8.7	6.9	5.5	15.5	14.1	8.4
C/N Downlink (dB)		19.2	17.6	19.2	11.6	10.3	11.6
C/I Intermodulation (dB)		28.7	26.8	28.7	20.7	19.3	20.7
C/I Uplink Co-Channel (dB)*		28.7	26.9	28.7	20.7	19.3	20.7
C/I Downlink Co-Channel (dB)*		24.7	22.8	24.7	17.1	15.8	17.1
C/I Uplink Adjacent Satellite 1 (dB)		11.6	9.8	11.6	19.9	18.5	19.9
C/I Downlink Adjacent Satellite 1 (dB)		24.7	22.8	24.7	17.1	15.8	17.1
C/I Uplink Adjacent Satellite 2 (dB)		15.1	13.2	15.1	20.5	19.2	20.5
C/I Downlink Adjacent Satellite 2 (dB)							
C/(N+I) Composite (dB)		-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Required System Margin (dB)		4.5	2.7	3.7	4.1	2.7	2.7
Net C/(N+I) Composite (dB)		-3.4	-2.7	-2.7	-3.4	-2.7	-2.7
Minimum Required C/N (dB)		1.1	0.0	0.0	0.7	0.0	0.0
Excess Link Margin (dB)		12.6	12.6	12.6	67.5	67.5	67.5
Number of Carriers							
Carrier Density Levels		-58.2	-58.2	-58.2	-51.8	-51.8	-51.8
Uplink Power Density (dBW/Hz)		-26.2	-28.0	-26.2	-33.8	-35.2	-33.8
Downlink EIRP Density At Beam Peak							

*Note: The C/I level is adjusted depending on the signal level and transponder mode of operation.

Exhibit 4: Link Budgets (continued)

[Channel Bandwidth: 54 MHz]

[Channel Bandwidth: 54 MHz]						
UPLINK BEAM INFORMATION						
Uplink Beam Name	Middle East-Europe 14000 – 14500	Middle East-Europe 14000 – 14500	Middle East-Europe 14000 – 14500	Middle East-Europe 14000 – 14500	Middle East-Europe 14000 – 14500	Middle East-Europe 14000 – 14500
Uplink Frequency (MHz)	14000 – 14500	14000 – 14500	14000 – 14500	14000 – 14500	14000 – 14500	14000 – 14500
Uplink Beam Polarization	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Uplink Relative Contour Level (dB)	-6	-6	-6	-6	-6	-6
Uplink Contour G/T (dB/K)	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Uplink SFD (dBW/m ²)	-81.3	-81.3	-81.3	-82.3	-82.3	-82.3
Rain Rate (mm/hr)	22	22	22	22	22	22
DOWNLINK BEAM INFORMATION						
Downlink Beam Name	Middle East-Europe 11700 – 12200	Middle East-Europe 11700 – 12200	Middle East-Europe 11700 – 12200	Middle East-Europe 11700 – 12200	Middle East-Europe 11700 – 12200	Middle East-Europe 11700 – 12200
Downlink Frequency (MHz)	11700 – 12200	11700 – 12200	11700 – 12200	11700 – 12200	11700 – 12200	11700 – 12200
Downlink Beam Polarization	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Downlink Relative Contour Level (dB)	-6	-6	-6	-6	-6	-6
Downlink Contour EIRP (dBW)	43.2	43.2	43.2	43.2	43.2	43.2
Rain Rate (mm/hr)	22	22	22	22	22	22
ADJACENT SATELLITE 1						
Satellite 1 Orbital Location	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
Uplink Polarization Advantage (dB)	0	0	0	0	0	0
Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
Downlink Polarization Advantage (dB)	0	0	0	0	0	0
ADJACENT SATELLITE 2						
Satellite 2 Orbital Location	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
Uplink Polarization Advantage (dB)	0	0	0	0	0	0
Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
Downlink Polarization Advantage (dB)	0	0	0	0	0	0
CARRIER INFORMATION						
Carrier ID	1	1	1	2	2	2
Emission Designation	27M0F3F	27M0F3F	27M0F3F	54M0G7W	54M0G7W	54M0G7W
Information Rate (kbps)	n/a	n/a	n/a	55295	55295	55295
Carrier Modulation	TV/FM	TV/FM	TV/FM	QPSK	QPSK	QPSK
Peak to Peak Bandwidth of EDS (MHz)	4.0	4.0	4.0	n/a	n/a	n/a
Code Rate	n/a	n/a	n/a	3/4 w/RS	3/4 w/RS	3/4 w/RS
Occupied Bandwidth (kHz)	27000	27000	27000	45200	45200	45200
Allocated Bandwidth (kHz)	27000	27000	27000	54000	54000	54000
Minimum C/N, Clear Sky (dB)	10.0	10.0	10.0	6.1	6.1	6.1
Minimum C/N, Rain (dB)	10.0	10.0	10.0	6.1	6.1	6.1
UPLINK EARTH STATION						
Earth Station Diameter (meters)	6.1	6.1	6.1	6.1	6.1	6.1
Earth Station Gain (dBi)	56.9	56.9	56.9	56.9	56.9	56.9
Earth Station Elevation Angle	20.0	20.0	20.0	20.0	20.0	20.0
DOWNLINK EARTH STATION						
Earth Station Diameter (meters)	3.7	3.7	3.7	1.8	1.8	1.8
Earth Station Gain (dBi)	51.1	51.1	51.1	44.8	44.8	44.8
Earth Station G/T (dB/K)	28.6	28.6	27.1	22.3	22.3	21.1
Earth Station Elevation Angle	20.0	20.0	20.0	20.0	20.0	20.0
LINK FADE TYPE						
	Clear Sky	Uplink Fade	Downlink Fade	Clear Sky	Uplink Fade	Downlink Fade
UPLINK PERFORMANCE						
Uplink Earth Station EIRP (dBW)	78.4	78.4	78.4	80.6	80.6	80.6
Uplink Path Loss, Clear Sky (dB)	-207.5	-207.5	-207.5	-207.5	-207.5	-207.5
Uplink Rain Attenuation (dB)	0.0	-2.2	0.0	0.0	-3.8	0.0
Satellite G/T (dB/K)	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Boltzman Constant (dBW/K-Hz)	228.6	228.6	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (dB-Hz)	-73.8	-73.8	-73.8	-73.5	-73.5	-73.5
Uplink C/N (dB)	22.0	19.8	22.0	21.5	17.7	21.5
DOWNLINK PERFORMANCE						
Downlink EIRP per Carrier (dBW)	38.8	37.4	38.8	43.2	42.2	43.2
Antenna Pointing Error (dB)	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Downlink Path Loss, Clear Sky (dB)	-205.9	-205.9	-205.9	-205.9	-205.9	-205.9
Downlink Rain Attenuation (dB)	0.0	0.0	-1.3	0.0	0.0	-1.0
Earth Station G/T (dB/K)	28.6	28.6	27.1	22.3	22.3	21.1
Boltzman Constant (dBW/K-Hz)	228.6	228.6	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (dB-Hz)	-73.8	-73.8	-73.8	-76.6	-76.6	-76.6
Downlink C/N (dB)	15.7	14.4	13.0	11.1	10.1	8.9
COMPOSITE LINK PERFORMANCE						
C/N Uplink (dB)	22.0	19.8	22.0	21.5	17.7	21.5
C/N Downlink (dB)	15.7	14.4	13.0	11.1	10.1	8.9
C/I Intermodulation (dB)	n/a	n/a	n/a	n/a	n/a	n/a
C/I Uplink Co-Channel (dB)*	27.4	25.2	27.4	27.0	23.2	27.0
C/I Downlink Co-Channel (dB)*	27.4	26.1	27.4	27.0	26.0	27.0
C/I Uplink Adjacent Satellite 1 (dB)	30.6	28.4	30.6	30.1	26.3	30.1
C/I Downlink Adjacent Satellite 1 (dB)	20.0	18.7	20.0	14.9	13.9	14.9
C/I Uplink Adjacent Satellite 2 (dB)	30.6	28.4	30.6	30.1	26.3	30.1
C/I Downlink Adjacent Satellite 2 (dB)	21.1	19.7	21.1	16.9	16.0	16.9
C/(N+I) Composite (dB)	12.5	11.0	11.0	8.4	7.1	7.1
Required System Margin (dB)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Net C/(N+I) Composite (dB)	11.5	10.0	10.0	7.4	6.1	6.1
Minimum Required C/N (dB)	-10.0	-10.0	-10.0	-6.1	-6.1	-6.1
Excess Link Margin (dB)	1.5	0.0	0.0	1.3	0.0	0.0
Number of Carriers	2.0	2.0	2.0	1.0	1.0	1.0
Carrier Density Levels						
Uplink Power Density (dBW/Hz)	-44.5	-44.5	-44.5	-52.9	-52.9	-52.9
Downlink EIRP Density At Beam Peak	-21.2	-22.6	-21.2	-27.4	-28.4	-27.4

*Note: The C/I level is adjusted depending on the signal level and transponder mode of operation.

Exhibit 4: Link Budgets (continued)

[Channel Bandwidth: 54 MHz]

UPLINK BEAM INFORMATION						
Uplink Beam Name	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe
Uplink Frequency (MHz)	14000 – 14500	14000 – 14500	14000 – 14500	14000 – 14500	14000 – 14500	14000 – 14500
Uplink Beam Polarization	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Uplink Relative Contour Level (dB)	-6	-6	-6	-6	-6	-6
Uplink Contour G/T (dB/K)	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Uplink SFD (dBW/m ²)	-86.3	-86.3	-86.3	-86.3	-86.3	-86.3
Rain Rate (mm/hr)	22	22	22	22	22	22
DOWNLINK BEAM INFORMATION						
Downlink Beam Name	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe
Downlink Frequency (MHz)	11700 – 12200	11700 – 12200	11700 – 12200	11700 – 12200	11700 – 12200	11700 – 12200
Downlink Beam Polarization	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Downlink Relative Contour Level (dB)	-6	-6	-6	-6	-6	-6
Downlink Contour EIRP (dBW)	43.2	43.2	43.2	43.2	43.2	43.2
Rain Rate (mm/hr)	22	22	22	22	22	22
ADJACENT SATELLITE 1						
Satellite 1 Orbital Location	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
Uplink Polarization Advantage (dB)	0	0	0	0	0	0
Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
Downlink Polarization Advantage (dB)	0	0	0	0	0	0
ADJACENT SATELLITE 2						
Satellite 2 Orbital Location	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
Uplink Polarization Advantage (dB)	0	0	0	0	0	0
Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
Downlink Polarization Advantage (dB)	0	0	0	0	0	0
CARRIER INFORMATION						
Carrier ID	3	3	3	4	4	4
Emission Designation	10M3G7W	10M3G7W	10M3G7W	100KG7W	100KG7W	100KG7W
Information Rate (kbps)	6000.0	6000.0	6000.0	64.0	64.0	64.0
Carrier Modulation	QPSK	QPSK	QPSK	QPSK	QPSK	QPSK
Peak to Peak Bandwidth of EDS (MHz)	n/a	n/a	n/a	n/a	n/a	n/a
Code Rate	1/2 w/RS	1/2 w/RS	1/2 w/RS	1/2 w/RS	1/2 w/RS	1/2 w/RS
Occupied Bandwidth (kHz)	6771.1	6771.1	6771.1	75.4	75.4	75.4
Allocated Bandwidth (kHz)	10300.0	10300.0	10300.0	100.0	100.0	100.0
Minimum C/N, Clear Sky (dB)	3.9	3.9	3.9	3.0	3.0	3.0
Minimum C/N, Rain (dB)	3.6	3.6	3.6	2.8	2.8	2.8
UPLINK EARTH STATION						
Earth Station Diameter (meters)	6.1	6.1	6.1	6.1	6.1	6.1
Earth Station Gain (dBi)	56.9	56.9	56.9	56.9	56.9	56.9
Earth Station Elevation Angle	20.0	20.0	20.0	20.0	20.0	20.0
DOWNLINK EARTH STATION						
Earth Station Diameter (meters)	1.8	1.8	1.8	1.8	1.8	1.8
Earth Station Gain (dBi)	44.8	44.8	44.8	44.8	44.8	44.8
Earth Station G/T (dB/K)	22.3	22.3	20.6	22.3	22.3	20.5
Earth Station Elevation Angle	20.0	20.0	20.0	20.0	20.0	20.0
LINK FADE TYPE						
	Clear Sky	Uplink Fade	Downlink Fade	Clear Sky	Uplink Fade	Downlink Fade
UPLINK PERFORMANCE						
Uplink Earth Station EIRP (dBW)	64.7	64.7	64.7	44.5	44.5	44.5
Uplink Path Loss, Clear Sky (dB)	-207.5	-207.5	-207.5	-207.5	-207.5	-207.5
Uplink Rain Attenuation (dB)	0.0	-1.9	0.0	0.0	-1.8	0.0
Satellite G/T (dB/K)	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Boltzman Constant (dBW/K-Hz)	228.6	228.6	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (dB-Hz)	-68.3	-68.3	-68.3	-48.8	-48.8	-48.8
Uplink C/N (dB)	13.8	12.0	13.8	13.1	11.3	13.1
DOWNLINK PERFORMANCE						
Downlink EIRP per Carrier (dBW)	33.8	32.1	33.8	13.6	11.8	13.6
Antenna Pointing Error (dB)	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Downlink Path Loss, Clear Sky (dB)	-205.9	-205.9	-205.9	-205.9	-205.9	-205.9
Downlink Rain Attenuation (dB)	0.0	0.0	-1.6	0.0	0.0	-1.7
Earth Station G/T (dB/K)	22.3	22.3	20.6	22.3	22.3	20.5
Boltzman Constant (dBW/K-Hz)	228.6	228.6	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (dB-Hz)	-68.3	-68.3	-68.3	-48.8	-48.8	-48.8
	-48.8	8.2	6.7	9.2	7.5	5.9
COMPOSITE LINK PERFORMANCE						
C/N Uplink (dB)	13.8	12.0	13.8	13.1	11.3	13.1
C/N Downlink (dB)	9.9	8.2	6.7	9.2	7.5	5.9
C/I Intermodulation (dB)	19.9	19.1	19.9	19.2	17.5	19.2
C/I Uplink Co-Channel (dB)*	28.3	26.5	28.3	28.2	26.4	28.2
C/I Downlink Co-Channel (dB)*	28.3	26.6	28.3	28.2	26.4	28.2
C/I Uplink Adjacent Satellite 1 (dB)	22.4	20.6	22.4	21.7	19.9	21.7
C/I Downlink Adjacent Satellite 1 (dB)	13.7	12.0	13.7	13.0	11.2	13.0
C/I Uplink Adjacent Satellite 2 (dB)	22.4	20.6	22.4	21.7	19.9	21.7
C/I Downlink Adjacent Satellite 2 (dB)	15.8	14.1	15.8	15.1	13.3	15.1
C/(N+I) Composite (dB)	6.3	4.6	4.6	5.6	3.8	3.8
Required System Margin (dB)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Net C/(N+I) Composite (dB)	5.3	3.6	3.6	4.6	2.8	2.8
Minimum Required C/N (dB)	-3.9	-3.6	-3.6	-3.0	-2.8	-2.8
Excess Link Margin (dB)	1.4	0.0	0.0	1.6	0.0	0.0
Number of Carriers	3.9	3.9	3.9	409.4	409.4	409.4
Carrier Density Levels						
Uplink Power Density (dBW/Hz)	-60.5	-60.5	-60.5	-61.2	-61.2	-61.2
Downlink EIRP Density At Beam Peak	-28.5	-30.2	-28.5	-29.2	-31.0	-29.2

*Note: The C/I level is adjusted depending on the signal level and transponder mode of operation.

Exhibit 4: Link Budgets (continued)

[Channel Bandwidth: 54 MHz]

UPLINK BEAM INFORMATION						
Uplink Beam Name	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe
Uplink Frequency (MHz)	14000 – 14500	14000 – 14500	14000 – 14500	14000 – 14500	14000 – 14500	14000 – 14500
Uplink Beam Polarization	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Uplink Relative Contour Level (dB)	-6	-6	-6	-6	-6	-6
Uplink Contour G/T (dB/K)	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Uplink SFD (dBW/m ²)	-86.3	-86.3	-86.3	-86.3	-86.3	-86.3
Rain Rate (mm/hr)	22	22	22	22	22	22
DOWNLINK BEAM INFORMATION						
Downlink Beam Name	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe	Middle East-Europe
Downlink Frequency (MHz)	11700 – 12200	11700 – 12200	11700 – 12200	11700 – 12200	11700 – 12200	11700 – 12200
Downlink Beam Polarization	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Downlink Relative Contour Level (dB)	-6	-6	-6	-6	-6	-6
Downlink Contour EIRP (dBW)	43.2	43.2	43.2	43.2	43.2	43.2
Rain Rate (mm/hr)	22	22	22	22	22	22
ADJACENT SATELLITE 1						
Satellite 1 Orbital Location	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L	48.75 E.L
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
Uplink Polarization Advantage (dB)	0	0	0	0	0	0
Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
Downlink Polarization Advantage (dB)	0	0	0	0	0	0
ADJACENT SATELLITE 2						
Satellite 2 Orbital Location	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L	50.75 E.L
Uplink Power Density (dBW/Hz)	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
Uplink Polarization Advantage (dB)	0	0	0	0	0	0
Downlink EIRP Density (dBW/Hz)	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
Downlink Polarization Advantage (dB)	0	0	0	0	0	0
CARRIER INFORMATION						
Carrier ID	5	5	5	6	6	6
Emission Designation	1M45G7W	1M45G7W	1M45G7W	400KG7W	400KG7W	400KG7W
Information Rate (kbps)	512.0	512.0	512.0	128.0	128.0	128.0
Carrier Modulation	BPSK	BPSK	BPSK	BPSK	BPSK	BPSK
Peak to Peak Bandwidth of EDS (MHz)	n/a	n/a	n/a	n/a	n/a	n/a
Code Rate	1/2	1/2	1/2	1/2	1/2	1/2
Occupied Bandwidth (kHz)	1229.0	1229.0	1229.0	307.0	307.0	307.0
Allocated Bandwidth (kHz)	1450.0	1450.0	1450.0	400.0	400.0	400.0
Minimum C/N, Clear Sky (dB)	3.4	3.4	3.4	3.4	3.4	3.4
Minimum C/N, Rain (dB)	2.7	2.7	2.7	2.7	2.7	2.7
UPLINK EARTH STATION						
Earth Station Diameter (meters)	6.1	6.1	6.1	1.8	1.8	1.8
Earth Station Gain (dBi)	56.9	56.9	56.9	46.4	46.4	46.4
Earth Station Elevation Angle	20.0	20.0	20.0	20.0	20.0	20.0
DOWNLINK EARTH STATION						
Earth Station Diameter (meters)	1.8	1.8	1.8	6.1	6.1	6.1
Earth Station Gain (dBi)	44.8	44.8	44.8	55.5	55.5	55.5
Earth Station G/T (dB/K)	22.3	22.3	20.6	33.1	33.1	30.3
Earth Station Elevation Angle	20.0	20.0	20.0	20.0	20.0	20.0
LINK FADE TYPE						
	Clear Sky	Uplink Fade	Downlink Fade	Clear Sky	Uplink Fade	Downlink Fade
UPLINK PERFORMANCE						
Uplink Earth Station EIRP (dBW)	56.5	56.5	56.5	45.4	45.4	45.4
Uplink Path Loss, Clear Sky (dB)	-207.5	-207.5	-207.5	-207.5	-207.5	-207.5
Uplink Rain Attenuation (dB)	0.0	-1.8	0.0	0.0	-1.4	0.0
Satellite G/T (dB/K)	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7
Boltzman Constant (dBW/K-Hz)	228.6	228.6	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (dB-Hz)	-60.9	-60.9	-60.9	-54.9	-54.9	-54.9
Uplink C/N (dB)	13.0	11.2	13.0	7.9	6.5	7.9
DOWNLINK PERFORMANCE						
Downlink EIRP per Carrier (dBW)	25.6	23.8	25.6	14.5	13.1	14.5
Antenna Pointing Error (dB)	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Downlink Path Loss, Clear Sky (dB)	-205.9	-205.9	-205.9	-205.9	-205.9	-205.9
Downlink Rain Attenuation (dB)	0.0	0.0	-1.6	0.0	0.0	-3.8
Earth Station G/T (dB/K)	22.3	22.3	20.6	33.1	33.1	30.3
Boltzman Constant (dBW/K-Hz)	228.6	228.6	228.6	228.6	228.6	228.6
Carrier Noise Bandwidth (dB-Hz)	-60.9	-60.9	-60.9	-54.9	-54.9	-54.9
	-48.8	7.4	5.8	14.9	13.5	8.3
COMPOSITE LINK PERFORMANCE						
C/N Uplink (dB)	13.0	11.2	13.0	7.9	6.5	7.9
C/N Downlink (dB)	9.1	7.4	5.8	14.9	13.5	8.3
C/I Intermodulation (dB)	19.1	17.5	19.1	14.0	12.6	14.0
C/I Uplink Co-Channel (dB)*	28.6	26.8	28.6	23.1	21.7	23.1
C/I Downlink Co-Channel (dB)*	28.6	26.8	28.6	23.1	21.7	23.1
C/I Uplink Adjacent Satellite 1 (dB)	21.6	19.8	21.6	16.5	15.1	16.5
C/I Downlink Adjacent Satellite 1 (dB)	12.9	11.1	12.9	19.3	17.9	19.3
C/I Uplink Adjacent Satellite 2 (dB)	21.6	19.8	21.6	16.5	15.1	16.5
C/I Downlink Adjacent Satellite 2 (dB)	15.0	13.2	15.0	19.9	18.5	19.9
C/(N+I) Composite (dB)	5.5	3.7	3.7	5.1	3.7	3.7
Required System Margin (dB)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Net C/(N+I) Composite (dB)	4.5	2.7	2.7	4.1	2.7	2.7
Minimum Required C/N (dB)	-3.4	-2.7	-2.7	-3.4	-2.7	-2.7
Excess Link Margin (dB)	1.1	0.0	0.0	0.7	0.0	0.0
Number of Carriers	25.7	25.7	25.7	135.0	135.0	135.0
Carrier Density Levels						
Uplink Power Density (dBW/Hz)	-61.3	-61.3	-61.3	-55.9	-55.9	-55.9
Downlink EIRP Density At Beam Peak	-29.3	-31.1	-29.3	-34.4	-35.8	-34.4

*Note: The C/I level is adjusted depending on the signal level and transponder mode of operation