

EXHIBIT 2: SBS 6 Link Budgets

UPLINK BEAM INFORMATION		CONUS	CONUS	CONUS	CONUS	CONUS	CONUS
Uplink Beam Name		14250	14250	14250	14250	14250	14250
Uplink Frequency (MHz)		Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Uplink Beam Polarization		-10	-10	-10	-10	-10	-10
Uplink Relative Contour Level (dB)		-0.85	-0.85	-0.85	-0.85	-0.85	-0.85
Uplink Contour G/T (dB/K)		-73.4	-73.4	-73.4	-73.4	-73.4	-73.4
Uplink SFD (dBW/m ²)		42.0	42.0	42.0	42.0	42.0	42.0
Rain Rate (mm/hr)							
DOWNLINK BEAM INFORMATION		CONUS	CONUS	CONUS	CONUS	CONUS	CONUS
Downlink Beam Name		11950	11950	11950	11950	11950	11950
Downlink Frequency (MHz)		Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal
Downlink Beam Polarization		-10	-10	-10	-10	-10	-10
Downlink Relative Contour Level (dB)		40.9	40.9	40.9	40.9	40.9	40.9
Downlink Contour EIRP (dBW)		42.0	42.0	42.0	42.0	42.0	42.0
Rain Rate (mm/hr)							
ADJACENT SATELLITE 1		78.95 WL	78.95 WL	78.95 WL	78.95 WL	78.95 WL	78.95 WL
Satellite 1 Orbital Location		-45.0	-45.0	-45.0	-45.0	-45.0	-45.0
Uplink Power Density (dBW/Hz)		0	0	0	0	0	0
Uplink Polarization Advantage (dB)		-20.8	-20.8	-20.8	-20.8	-20.8	-20.8
Downlink EIRP Density (dBW/Hz)		0	0	0	0	0	0
Downlink Polarization Advantage (dB)							
ADJACENT SATELLITE 2		83.0 WL	83.0 WL	83.0 WL	83.0 WL	83.0 WL	83.0 WL
Satellite 2 Orbital Location		-45.0	-45.0	-45.0	-45.0	-45.0	-45.0
Uplink Power Density (dBW/Hz)		0	0	0	0	0	0
Uplink Polarization Advantage (dB)		-21.5	-21.5	-21.5	-21.5	-21.5	-21.5
Downlink EIRP Density (dBW/Hz)		0	0	0	0	0	0
Downlink Polarization Advantage (dB)							
CARRIER INFORMATION		1	1	1	2	2	2
Carrier ID		36M0F3F	36M0F3F	36M0F3F	30M8G7W	30M8G7W	30M8G7W
Emission Designation		n/a	n/a	n/a	28380	28380	28380
Information Rate (kbps)		TV/FM	TV/FM	TV/FM	QPSK	QPSK	QPSK
Carrier Modulation		4	4	4	n/a	n/a	n/a
Peak to Peak Bandwidth of EDS (MHz)		n/a	n/a	n/a	1/2	1/2	1/2
Code Rate		36000	36000	36000	30800	30800	30800
Occupied Bandwidth (kHz)		36000	36000	36000	41890	41890	41890
Allocated Bandwidth (kHz)		10	10	10	5.2	5.2	5.2
Minimum C/N, Clear Sky (dB)		10	10	10	4.2	4.2	4.2
Minimum C/N, Rain (dB)							
UPLINK EARTH STATION		7.0	7.0	7.0	6.1	6.1	6.1
Earth Station Diameter (meters)		58.1	58.1	58.1	56.9	56.9	56.9
Earth Station Gain (dBi)		20	20	20	20	20	20
Earth Station Elevation Angle							
DOWNLINK EARTH STATION		13.0	13.0	13.0	6.1	6.1	6.1
Earth Station Diameter (meters)		62.6	62.6	62.6	55.5	55.5	55.5
Earth Station Gain (dBi)		41.9	41.9	38.4	33.1	33.1	30.0
Earth Station G/T, Clear Sky (dB/K)		20	20	20	20	20	20
Earth Station Elevation Angle							
LINK FADE TYPE		Clear Sky	Uplink Fade	Downlink Fade	Clear Sky	Uplink Fade	Downlink Fade
UPLINK PERFORMANCE		81.1	81.1	81.1	75.5	75.5	75.5
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	-2.0	0.0	0.0	-3.5	0.0
Uplink Rain Attenuation (dB)		-0.9	-0.9	-0.9	-0.9	-0.9	-0.9
Satellite G/T (dB/K)		228.6	228.6	228.6	228.6	228.6	228.6
Boltzman Constant (dBW/K-Hz)		-75.6	-75.6	-75.6	-74.9	-74.9	-74.9
Carrier Noise Bandwidth (dB-Hz)		25.8	23.8	25.8	20.9	17.4	20.9
Uplink C/N (dB)							
DOWNLINK PERFORMANCE		32.5	30.6	32.5	34.8	31.5	34.8
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	-3.2	0.0	0.0	-4.9
Downlink Rain Attenuation (dB)		41.9	41.9	38.4	33.1	33.1	30.0
Earth Station G/T, Clear Sky (dB/K)		228.6	228.6	228.6	228.6	228.6	228.6
Boltzman Constant (dBW/K-Hz)		-75.6	-75.6	-75.6	-74.9	-74.9	-74.9
Carrier Noise Bandwidth (dB-Hz)		21.1	19.1	14.3	15.2	11.9	7.2
Downlink C/N (dB)							
COMPOSITE LINK PERFORMANCE		25.8	23.8	25.8	20.9	17.4	20.9
C/N Uplink (dB)		21.1	19.1	14.3	15.2	11.9	7.2
C/N Downlink (dB)		n/a	n/a	n/a	n/a	n/a	n/a
C/I Intermodulation (dB)		24.8	22.8	24.8	24.1	20.6	24.1
C/I Uplink Co-Channel (dB)*		24.8	22.8	24.8	24.1	20.8	24.1
C/I Downlink Co-Channel (dB)*		22.8	20.8	22.8	17.9	14.4	17.9
C/I Uplink Adjacent Satellite 1 (dB)		19.4	17.5	19.4	15.3	12.1	15.3
C/I Downlink Adjacent Satellite 1 (dB)		22.5	20.5	22.5	17.6	14.2	17.6
C/I Uplink Adjacent Satellite 2 (dB)		19.5	17.6	19.5	15.1	11.8	15.1
C/I Downlink Adjacent Satellite 2 (dB)							
C/(N+I) Composite (dB)		13.0	11.0	11.0	8.5	5.2	5.2
Required System Margin (dB)		-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Net C/(N+I) Composite (dB)		12.0	10.0	10.0	7.5	4.2	4.2
Minimum Required C/N (dB)		-10.0	-10.0	-10.0	-5.2	-4.2	-4.2
Excess Link Margin (dB)		2.0	0.0	0.0	2.3	0.0	0.0
Number of Carriers		1	1	1	1	1	1
Carrier Density Levels		-43.0	-43.0	-43.0	-56.3	-56.3	-56.3
Uplink Power Density (dBW/Hz)		-23.5	-25.4	-23.5	-30.1	-33.4	-30.1
Downlink EIRP Density At Beam Peak							

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

EXHIBIT 2: SBS 6 LINK BUDGETS (continued)

UPLINK BEAM INFORMATION		CONUS	CONUS	CONUS	CONUS	CONUS	CONUS
Uplink Beam Name		14250	14250	14250	14250	14250	14250
Uplink Frequency (MHz)		Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Uplink Beam Polarization		-10	-10	-10	-10	-10	-10
Uplink Relative Contour Level (dB)		-0.85	-0.85	-0.85	-0.85	-0.85	-0.85
Uplink Contour G/T (dB/K)		-73.4	-73.4	-73.4	-73.4	-73.4	-73.4
Uplink SFD (dBW/m ²)		42.0	42.0	42.0	42.0	42.0	42.0
Rain Rate (mm/hr)							
DOWNLINK BEAM INFORMATION		CONUS	CONUS	CONUS	CONUS	CONUS	CONUS
Downlink Beam Name		11950	11950	11950	11950	11950	11950
Downlink Frequency (MHz)		Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal
Downlink Beam Polarization		-10	-10	-10	-10	-10	-10
Downlink Relative Contour Level (dB)		40.9	40.9	40.9	40.9	40.9	40.9
Downlink Contour EIRP (dBW)		42.0	42.0	42.0	42.0	42.0	42.0
Rain Rate (mm/hr)							
ADJACENT SATELLITE 1		78.95 WL	78.95 WL	78.95 WL	78.95 WL	78.95 WL	78.95 WL
Satellite 1 Orbital Location		-45.0	-45.0	-45.0	-45.0	-45.0	-45.0
Uplink Power Density (dBW/Hz)		0	0	0	0	0	0
Uplink Polarization Advantage (dB)		-20.8	-20.8	-20.8	-20.8	-20.8	-20.8
Downlink EIRP Density (dBW/Hz)		0	0	0	0	0	0
Downlink Polarization Advantage (dB)							
ADJACENT SATELLITE 2		83.0 WL	83.0 WL	83.0 WL	83.0 WL	83.0 WL	83.0 WL
Satellite 2 Orbital Location		-45.0	-45.0	-45.0	-45.0	-45.0	-45.0
Uplink Power Density (dBW/Hz)		0	0	0	0	0	0
Uplink Polarization Advantage (dB)		-21.5	-21.5	-21.5	-21.5	-21.5	-21.5
Downlink EIRP Density (dBW/Hz)		0	0	0	0	0	0
Downlink Polarization Advantage (dB)							
CARRIER INFORMATION		3	3	3	4	4	4
Carrier ID		6M77G7W	6M77G7W	6M77G7W	75K4G7W	75K4G7W	75K4G7W
Emission Designation		6000	6000	6000	64	64	64
Information Rate (kbps)		QPSK	QPSK	QPSK	QPSK	QPSK	QPSK
Carrier Modulation		n/a	n/a	n/a	n/a	n/a	n/a
Peak to Peak Bandwidth of EDS (MHz)		1/2xRS	1/2xRS	1/2xRS	1/2xRS	1/2xRS	1/2xRS
Code Rate		6771.1	6771.1	6771.1	75.4	75.4	75.4
Occupied Bandwidth (kHz)		10300	10300	10300	100	100	100
Allocated Bandwidth (kHz)		3.9	3.9	3.9	3.0	3.0	3.0
Minimum C/N, Clear Sky (dB)		3.6	3.6	3.6	2.8	2.8	2.8
Minimum C/N, Rain (dB)							
UPLINK EARTH STATION		6.1	6.1	6.1	6.1	6.1	6.1
Earth Station Diameter (meters)		56.9	56.9	56.9	56.9	56.9	56.9
Earth Station Gain (dBi)		20	20	20	20	20	20
Earth Station Elevation Angle							
DOWNLINK EARTH STATION		6.1	6.1	6.1	6.1	6.1	6.1
Earth Station Diameter (meters)		55.5	55.5	55.5	55.5	55.5	55.5
Earth Station Gain (dBi)		33.1	33.1	30.0	33.1	33.1	30.0
Earth Station G/T, Clear Sky (dB/K)		20	20	20	20	20	20
Earth Station Elevation Angle							
LINK FADE TYPE		Clear Sky	Uplink Fade	Downlink Fade	Clear Sky	Uplink Fade	Downlink Fade
UPLINK PERFORMANCE		71.4	71.4	71.4	51.2	51.2	51.2
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	-2.7	0.0	0.0	-2.6	0.0
Uplink Rain Attenuation (dB)		-0.9	-0.9	-0.9	-0.9	-0.9	-0.9
Satellite G/T (dB/K)		228.6	228.6	228.6	228.6	228.6	228.6
Boltzman Constant (dBW/K-Hz)		-68.3	-68.3	-68.3	48.8	48.8	48.8
Carrier Noise Bandwidth (dB-Hz)		23.4	20.7	23.4	22.7	20.1	22.7
Uplink C/N (dB)							
DOWNLINK PERFORMANCE		28.1	25.6	28.1	7.9	5.3	7.9
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	-4.6	0.0	0.0	-4.8
Downlink Rain Attenuation (dB)		33.1	33.1	30.0	33.1	33.1	30.0
Earth Station G/T, Clear Sky (dB/K)		228.6	228.6	228.6	228.6	228.6	228.6
Boltzman Constant (dBW/K-Hz)		-68.3	-68.3	-68.3	-48.8	-48.8	-48.8
Carrier Noise Bandwidth (dB-Hz)		15.1	12.5	7.3	14.4	11.7	6.4
Downlink C/N (dB)							
COMPOSITE LINK PERFORMANCE		23.4	20.7	23.4	22.7	20.1	22.7
C/N Uplink (dB)		15.1	12.5	7.3	14.4	11.7	6.4
C/N Downlink (dB)		12.2	9.8	12.2	11.5	8.8	11.5
C/I Intermodulation (dB)		20.1	17.5	20.1	20.0	17.4	20.0
C/I Uplink Co-Channel (dB)*		20.1	17.6	20.1	20.0	17.4	20.0
C/I Downlink Co-Channel (dB)*		20.4	17.8	20.4	19.7	17.1	19.7
C/I Uplink Adjacent Satellite 1 (dB)		15.2	12.7	15.2	14.5	11.9	14.5
C/I Downlink Adjacent Satellite 1 (dB)		20.1	17.5	20.1	19.4	16.8	19.4
C/I Uplink Adjacent Satellite 2 (dB)		15.0	12.5	15.0	14.3	11.7	14.3
C/I Downlink Adjacent Satellite 2 (dB)							
C/(N+I) Composite (dB)		7.1	4.6	4.6	6.4	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)		6.1	3.6	3.6	5.4	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)		2.2	0.0	0.0	2.4	0.0	0.0
Number of Carriers		4	4	4	430	430	430
Carrier Density Levels							
Uplink Power Density (dBW/Hz)		-53.8	-53.8	-53.8	-54.5	-54.5	-54.5
Downlink EIRP Density At Beam Peak		-30.2	-32.7	-30.2	-30.9	-33.5	-30.9

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

EXHIBIT 2: SBS 6 LINK BUDGETS (continued)

UPLINK BEAM INFORMATION		CONUS	CONUS	CONUS	CONUS	CONUS	CONUS
Uplink Beam Name		14250	14250	14250	14250	14250	14250
Uplink Frequency (MHz)		Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Uplink Beam Polarization		-10	-10	-10	-10	-10	-10
Uplink Relative Contour Level (dB)		-0.85	-0.85	-0.85	-0.85	-0.85	-0.85
Uplink Contour G/T (dB/K)		-73.4	-73.4	-73.4	-73.4	-73.4	-73.4
Uplink SFD (dBW/m ²)		42.0	42.0	42.0	42.0	42.0	42.0
Rain Rate (mm/hr)							
DOWNLINK BEAM INFORMATION		CONUS	CONUS	CONUS	CONUS	CONUS	CONUS
Downlink Beam Name		11950	11950	11950	11950	11950	11950
Downlink Frequency (MHz)		Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal
Downlink Beam Polarization		-10	-10	-10	-10	-10	-10
Downlink Relative Contour Level (dB)		40.9	40.9	40.9	40.9	40.9	40.9
Downlink Contour EIRP (dBW)		42.0	42.0	42.0	42.0	42.0	42.0
Rain Rate (mm/hr)							
ADJACENT SATELLITE 1		78.95 WL	78.95 WL	78.95 WL	78.95 WL	78.95 WL	78.95 WL
Satellite 1 Orbital Location		-45.0	-45.0	-45.0	-45.0	-45.0	-45.0
Uplink Power Density (dBW/Hz)		0	0	0	0	0	0
Uplink Polarization Advantage (dB)		-20.8	-20.8	-20.8	-20.8	-20.8	-20.8
Downlink EIRP Density (dBW/Hz)		0	0	0	0	0	0
Downlink Polarization Advantage (dB)							
ADJACENT SATELLITE 2		83.0 WL	83.0 WL	83.0 WL	83.0 WL	83.0 WL	83.0 WL
Satellite 2 Orbital Location		-45.0	-45.0	-45.0	-45.0	-45.0	-45.0
Uplink Power Density (dBW/Hz)		0	0	0	0	0	0
Uplink Polarization Advantage (dB)		-21.5	-21.5	-21.5	-21.5	-21.5	-21.5
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		1M23G7W	1M23G7W	1M23G7W	307KG7W	307KG7W	307KG7W
Emission Designation		512	512	512	128	128	128
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	1229	1229	307	307	307
Occupied Bandwidth (kHz)		1450	1450	1450	400	400	400
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	6.1	6.1	6.1
Earth Station Diameter (meters)		56.9	56.9	56.9	56.9	56.9	56.9
Earth Station Gain (dBi)		20	20	20	20	20	20
Earth Station Elevation Angle							
DOWNLINK EARTH STATION		6.1	6.1	6.1	6.1	6.1	6.1
Earth Station Diameter (meters)		55.5	55.5	55.5	55.5	55.5	55.5
Earth Station Gain (dBi)		33.1	33.1	30.0	33.1	33.1	30.0
Earth Station G/T, Clear Sky (dB/K)		20	20	20	20	20	20
Earth Station Elevation Angle							
LINK FADE TYPE		Clear Sky	Uplink Fade	Downlink Fade	Clear Sky	Uplink Fade	Downlink Fade
UPLINK PERFORMANCE		63.2	63.2	63.2	57.2	57.2	57.2
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	-2.6	0.0	0.0	-2.6	0.0
Uplink Rain Attenuation (dB)		-0.9	-0.9	-0.9	-0.9	-0.9	-0.9
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)		22.6	19.9	22.6	22.6	20.0	22.6
Uplink C/N (dB)							
DOWNLINK PERFORMANCE		19.9	17.2	19.9	13.9	11.3	13.9
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	-4.8	0.0	0.0	-4.8
Downlink Rain Attenuation (dB)		33.1	33.1	30.0	33.1	33.1	30.0
Earth Station G/T, Clear Sky (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)		14.2	11.6	6.4	14.3	11.6	6.4
Downlink C/N (dB)							
COMPOSITE LINK PERFORMANCE		22.6	19.9	22.6	22.6	20.0	22.6
C/N Uplink (dB)		14.2	11.6	6.4	14.3	11.6	6.4
C/N Downlink (dB)		11.3	8.7	11.3	11.4	8.7	11.4
C/I Intermodulation (dB)		20.4	17.7	20.4	20.0	17.4	20.0
C/I Uplink Co-Channel (dB)*		20.4	17.8	20.4	20.0	17.4	20.0
C/I Downlink Co-Channel (dB)*		19.6	16.9	19.6	19.6	17.0	19.6
C/I Uplink Adjacent Satellite 1 (dB)		14.4	11.8	14.4	14.4	11.8	14.4
C/I Downlink Adjacent Satellite 2 (dB)		19.3	16.6	19.3	19.3	16.7	19.3
C/I Uplink Adjacent Satellite 2 (dB)		14.2	11.5	14.2	14.2	11.6	14.2
C/I Downlink Adjacent Satellite 2 (dB)							
C/(N+I) Composite (dB)		6.3	3.7	3.7	6.3	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)		5.3	2.7	2.7	5.3	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)		1.9	0.0	0.0	1.9	0.0	0.0
Number of Carriers		29	29	29	107	107	107
Carrier Density Levels		-54.6	-54.6	-54.6	-54.6	-54.6	-54.6
Uplink Power Density (dBW/Hz)		-31.0	-33.7	-31.0	-31.0	-33.6	-31.0
Downlink EIRP Density At Beam Peak							

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