Exhibit B

Link Budgets

Link reference	1	Α	В	С	D
TPN type		NEXT_TPN	NEXT_TPN	NEXT_TPN	NEXT_TPN
Satellite type		Next	Next	Next	Next
Carrier Frequency	GHz	29,2	29,2	29,2	29,2
TP EIRP	dBW	49,6	54,6	56,5	58,9
Elevation	deg	5	5	5	5
Range	km	2741	2741	2741	2741
Free space loss	dB	-190,5	-190,5	-190,5	-190,5
Polarization losses	dB	-0,1	-0,1	-0,1	-0,1
Propagation loss (clear sky)	dB	-4,0	-4,0	-4,0	-4,0
Fading	dB	8,5	8,5	8,5	8,5
Received Signal Strength	dBWi	-153,5	-148,5	-146,6	-144,2
Descived Cignal Downs Flow Density	dBW/m2	-102,8	-97,8	-95,9	-93,5
Received Signal Power Flux Density	dBW/m2/MHz	-113,4	-108,4	-106,5	-104,1
Danis distantana Bassa Flori Danis	dBW/m2	-116,4	-116,4	-116,4	-116,4
Received Interference Power Flux Density	dBW/m2/MHz	-127,0	-127,0	-127,0	-127,0
Satellite G/T	dB/K	2,5	2,5	2,5	2,5
C/No	dBHz	77,5	82,5	84,4	86,8
ModCod		QPSK2/5	QPSK4/5	8PSK2/3	16APSK2/3
Symbol rate	Msps	11,7	11,7	11,7	11,7
Es/No	dB	6,9	11,9	13,8	16,2
Interferences (C/I)	dB	13,6	18,6	20,5	22,9
Es/(No+lo)	dB	6,0	11,0	12,9	15,3
Required Es/(No+lo)	dB	2,6	7,6	9,5	11,9
Raw margin	dB	3,5	3,5	3,5	3,5
Fade margin	dB	4,0	4,0	4,0	4,0

Table 1 – Feeder uplink budget

Link reference		А	В	С	
Satellite type		Next	Next	Next	
TPN type		NEXT_TPN	NEXT_TPN	NEXT_TPN	
Satellite EIRP	dBW	26,5	27,8	27,8	
Elevation	deg	5	5	5	
Range	km	2741	2741	2741	
Free space loss	dB	-187,0	-187,0	-187,0	
Polarization losses	dB	-0,1	-0,1	-0,1	
Propagation loss (clear sky)	dB	-3,9	-3,9	-3,9	
Fading	dB	8,5	4,8	2,9	
Received Signal Strength	dBWi	-173,0	-168,0	-166,1	
Received Signal Power Flux Density	dBW/m2	-125,8	-120,8	-118,9	
Received Signal Fower Flux Density	dBW/m2/MHz	-136,4	-131,4	-129,5	
Received Interference Power Flux Density	dBW/m2	-139,4	-139,4	-139,4	
Received interference Fower Flux Density	dBW/m2/MHz	-150,0	-150,0	-150,0	
TP G/T	dB/K	22,0	22,0	22,0	
C/No	dBHz	77,6	82,6	84,5	
ModCod		QPSK2/5	QPSK4/5	8PSK2/3	
Symbol rate	Msps	11,7	11,7	11,7	
Es/No	dB	6,9	11,9	13,8	
Interferences (C/I)	dB	13,6	18,6	20,5	
Es/(No+lo)	dB	6,1	11,1	13,0	
Required Es/(No+Io)	dB	2,6	7,6	9,5	
Raw margin	dB	3,5	3,5	3,5	
Fade margin	dB	4,0	4,0	4,0	

Table 2 – Feeder downlink budget

COMMAND LINK BUDGET		Worst Case
Ground station-satellite distance (maximum)	(kms)	2325
Ground station EIRP	(dBW)	67.0
TC Ground station pointing losses	(dB)	-0.1
Uplink atmospheric and rain attenuation	(dB)	-7.00
Free space losses	(dB)	-189.1
Power flux density at S/C	(dBW/m²)	-78.4
SV Main TC omni gain	(dBic)	0.0
SAT Omni Antennas multipath	(dB)	-1.8
SV Input losses	(dB)	-5.1
Total received power at receiver input	(dBm)	-106.1
Receiver noise figure	(dB)	6.9
Antenna temperature	(K)	290
Noise temperature at Rx input	(K)	1420
Noise density at receiver input	(dBW/Hz)	-197.1
C/No density ratio at receiver input	(dBHz)	61.0
Aggregate Interference EIRP spectral density	(dBW/Hz)	-39.0
C/N0 due to interference EIRP	(dB.Hz)	106.0
Overall C/N0	(dB.Hz)	61.0
Required C/N0 at receiver input	(dB.Hz)	57.1
Margin on command (C/N0 thres)	(dB)	3.9

Table 3 – Telecommand link budget

TELEMETRY LINK BUDGET		Worst Case
Ground station-satellite distance (maximum)	(kms)	2325
TX RF output power	(dBW)	-1.5
SV output losses	(dB)	-4.3
SV Main TM omni gain	(dBic)	0.0
SAT Omnis Antenna multipath	(dB)	-1.8
Telemetry EIRP	(dBW)	-7.7
Downlink atmospheric and rain attenuation	(dB)	-4.0
Ground station pointing losses	(dB)	-0.1
Free space losses	(dB)	-185.6
Power flux density at ground station	(dBW/m²)	-150.0
Ground station G/T	(dB/K)	22.0
Ground station G/T degradation	(dB)	-1.1
Received C/No	(dB.Hz)	52.2
CARRIER ACQUISITION TM		Worst Case
TM modulation index (TM alone)	(rd)	1.68
Losses due to BPSK TM sub-carrier modulation	(dB)	-7.8
Ground station TM PLL bandwidth	(dB.Hz)	30.0
S/N required in TM PLL bandwidth	(dB)	10.0
Margin on carrier acquisition (TM alone)	(dB)	4.5

TELEMETRY RECOVERY		Worst Case
Losses due to BPSK TM recovery sub-carrier modulation	(dB)	-2.6
TM demodulator implementation inpairment	(dB)	-2.0
TM bit rate (before coding)	(dBHz)	39.1
Required Eb/No	(dB)	6.3
MARGIN on TM recovery	(dB)	2.2

Table 4 – Telemetry link budget

Link reference		Α	В
Link type		Xlink_NS	Xlink_EW
Transmit SV		Next	Next
Receive SV		Next	Next
Carrier Frequency	GHz	23.28	23.28
Satellite EIRP	dBW	41.5	42.0
Range	km	4037	4395
Free space loss	dB	-191.9	-192.6
Receiver Signal Strength	dBWi	-150.4	-150.6
Received PFD	dBW/m2	-101.6	-101.9
Polarization losses	dB	0.0	0.0
Satellite G/T	dB/K	8.8	8.4
C/No	dBHz	86.9	86.3
ModCod		8PSK2/3	8PSK2/3
Symbol rate	Msps	18.0	18.0
Max allowable frame usage	%	46.9%	34.6%
Es/No	dB	14.4	13.8
C/I	dB	25	25
Es/(No+I)	dB	14.0	13.4
Required Es/(No+I)	dB	9.8	9.8
Excess Margin	dB	4.2	3.6

Table 5 – Intersatellite link budget

Subscriber Up-link budge	ets	Block1 L-Band Bursts							
		(a)	(b)	(c)	(d)	(e)			
Subscriber equipment type		B1_9505	B1_SBD	B1_LBT	B1_OPP_1_ch	B1_9505			
Type of Burst		Block1	Block1	Block1	Block1_OPP_1_ch	Block1_AQ			
Mod Cod		Block1	Block1	Block1	Block1	Block1_AQ			
Symbol rate	ksps	25	25	25	25	25			
Transmitted information data rate per burst (at phy level)	kbps	3,5	3,5	3,5	3,5	0,3			
SE EIRP	dBW	3,1	0,0	5,0	2,5	3,1			
Averaged EIRP density	dBW/4 kHz	-15,2	-18,3	-13,3	-15,8	-15,2			
Free space loss	dB	-154,5	-154,5	-154,5	-154,5	-154,5			
Propagation loss (line of sight)	dB	-0,3	-0,3	-0,3	-0,3	-0,3			
Receiver Signal Strength	dBW	-152,2	-155,3	-150,3	-152,5	-152,2			
Faded Receiver Signal Strength	dBW	-163,8	-163,7	-163,7	-162,4	-163,8			
Receive Power Flux Density	dBW/m2	-126,5	-129,6	-124,6	-126,8	-126,5			
Faded Receive PFD	dBW/m2	-138,1	-138,0	-138,0	-136,7	-138,1			
Average SV isoflux G/T	dB/K	-11,2	-11,2	-11,2	-11,2	-11,2			
C/No	dBHz	65,2	62,1	67,1	64,9	65,2			
Es/No	dB	21,2	18,1	23,1	20,9	21,2			
Required Es/(No+lo)	dB	9,1	9,1	9,1	9,1	9,1			
Interferences (C/I)	dB	20,0	19,0	19,0	14,0	20,0			
External interference with N/I = 12.2 dB	dBW/m2/Hz	-203,9	-203,9	-203,9	-203,9	-203,9			
External interference contribution (C/I)	dB	20	21	21	22	20			
SE EVM non-linear distortions only)	%	6,0%	6,0%	6,0%	6,0%	6,0%			
Es/(No+lo+EVM)	dB	16,7	15,0	16,8	12,9	16,7			
Fade margin incl. statistical benefit	dB	11,5	8,3	13,3	9,9	11,5			

Table 6 – L band uplink budget (Block 1 legacy terminals)

Subscriber Up-link budge	ts	Next L-Band Bu	rsts							
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Subscriber equipment type		E_handset	E_handset	E_SLBT	E_SLBT	E_SLBT	E_BB	E_BB	E_BB	E_BB
Type of Burst		QPSK_4/5_30K_	QPSK_2/3_60K_	QPSK_4/5_30K_1	QPSK_2/3_60K_	QPSK_2/3_240K_	QPSK_4/5_30K_	QPSK_2/3_60K_	QPSK_2/3_240K_*	16PSK_2/3_240K_1
Mod Cod		QPSK_4/5_	QPSK_2/3_	QPSK_4/5_	QPSK_2/3_	QPSK_2/3_	QPSK_4/5_	QPSK_2/3_	QPSK_2/3_	16PSK_2/3
Symbol rate	ksps	30	60	30	60	240	30	60	240	240
Transmitted information data rate per	kbps	3,6	6.4	3,6	6.4	27,0	3.6	6.4	27,0	53.9
burst (at phy level)	коро	3,0	0,4	3,0	0,4	21,0	3,0	0,4	21,0	33,5
SE EIRP	dBW	5,0	5,0	6,5	8,0	9,0	5,0	8,0	15,2	15,2
Averaged EIRP density	dBW/4 kHz	-14,1	-17.1	-12.6	-14,1	-19,1	8,1	-8,1	6,9	6.9
Free space loss	dB	-154,5	-154,5	-154,5	-154,5	-154,5	-154,5	-154,5	-154,5	-154,5
Propagation loss (line of sight)	dB	-0,3	-0,3	-0,3	-0,3	-0,3	-0,3	-0,3	-0,3	-0,3
Receiver Signal Strength	dBW	-150,4	-150,4	-148,8	-147,3	-146,3	-150,0	-147,0	-139,8	-139,8
Faded Receiver Signal Strength	dBW	-162,2	-162,6	-162,2	-161,7	-156,0	-162,2	-161,7	-155,3	-148,7
Receive Power Flux Density	dBW/m2	-124,7	-124,7	-123,1	-121,6	-120,6	-124,3	-121,3	-114,1	-114,1
Faded Receive PFD	dBW/m2	-136,5	-136,9	-136,5	-136,0	-130,3	-136,5	-136,0	-129,6	-123,1
Average SV isoflux G/T	dB/K	-11,2	-11,2	-11,2	-11,2	-11,2	-11,2	-11,2	-11,2	-11,2
C/No	dBHz	67,0	67,0	68,6	70,1	71,1	67.4	70,4	77,6	77,6
Es/No	dB	22,2	19,2	23,8	22,3	17,3	22,6	22,6	23,8	23,8
Required Es/(No+lo)	dB	9,4	5,8	9,4	5,8	5,6	9,4	5,8	5,6	12,1
Interferences (C/I)	dB	17,0	12,0	17,0	10,0	10,0	17,0	10,0	9,0	16,0
External interference with N/I = 12.2 dB	dBW/m2/Hz	-203,9	-203,9	-203,9	-203,9	-203,9	-203,9	-203,9	-203,9	-203,9
External interference contribution (C/I)	dB	22	18	22	19	19	22	19	20	26
SE EVM (non-linear distortions only)	%	6,0%	6,0%	6,0%	6,0%	6,0%	6,0%	6,0%	6,0%	6,0%
Es/(No+lo+EVM)	dB	12,1	12,3	13,7	14,5	9,9	12,5	14,9	15,7	9,8
Fade margin incl. statistical benefit	dB	11,8	12,2	13,4	14,4	9,7	12,2	14,7	15,5	8,9

Table 7 – L band uplink budget (NEXT terminals)

Subscriber Down-link budg	jets	Block1 L-band Bursts							
		(a)	(b)	(c)	(d)	(e)	(f)		
Subscriber Equipment type		B1_9505	B1_SBD	B1_Pager	B1_LBT	B1_OPP	B1_9505		
Type of Burst		Block1	Block1	Block1_Paging	Block1	Block1_OPP_d	Common_RA		
Mod Cod		Block1	Block1	Block1	Block1	Block1	Common		
Symbol rate	ksps	25	25	25	25	25	25		
Transmitted information data rate per									
burst (at phy level)	kbps / burst	3,5	3,5	9,6	3,5	3,5	9,6		
Satellite isoflux EIRP per burst	dBW	21,1	20,9	32,5	21,2	10,7	26,0		
Free space loss	dB	-154,5	-154,5	-154,5	-154,5	-154,5	-154,5		
Propagation loss (line of sight)	dB	-0,33	-0,33	-0,33	-0,33	-0,33	-0,33		
Receive Power Flux Density	dBW/m2	-108,1	-108,3	-96,7	-108,0	-118,5	-103,2		
Faded Receive Power Flux Density	dBW/m2	-116,4	-117,4	-118,2	-118,2	-127,4	-116,4		
SE G/T	dB/K	-32,0	-31,0	-30,2	-30,2	-21,0	-32,0		
Receiver Signal Strength (LOS)	dBWi	-133,7	-133,9	-122,4	-133,6	-144,1	-128,8		
C/No	dBHz	62,9	63,7	76,0	64,8	63,5	67,8		
Es/No	dB	18,9	19,7	32,0	20,8	19,5	23,8		
Required Es/(No+lo)	(dB)	9,2	9,2	9,2	9,2	9,2	9,2		
Overall interferences (C/I = Es/I0)	dB	15,0	15,0	15,0	15,0	15,0	15,0		
External interference with N/I = 12.2 dB	dBW/m2/Hz	-183,1	-184,1	-184,9	-184,9	-194,1	-183,1		
External interference contribution (C/I)		35	34	33	33	24	35		
Required Es/(No)		10,5	10,5	10,5	10,5	10,5	10,5		
Required RSS @threshold	dBWi	-142,1	-143,1	-143,9	-143,9	-153,1	-142,1		
Fade margin including statistical benefit	dB	8,4	9,2	21,5	10,3	9,0	13,3		

Table 8 – L band downlink budget (Block 1 legacy terminals)

Subscriber Down-link bude	4_	Next L-band Bur	-t- t EDDC								
Subscriber Down-link budy	jets	(a)	(b)	(c)	(d)	(e)	ff)	(g)	(h)	m	0
Subscriber Equipment type		F handset	E handset	E handset	F SLBT	E SLBT	E SLBT	F BB	F BB	F BB	E BB
Type of Burst		QPSK 4/5 30K 1		OPSK 2/3 240K	OPSK 4/5 30K	OPSK 2/3 60K		10PSK 4/5 30K		QPSK 2/3 240K	16PSK 2/3 240K
		QPSK 4/5 30K			QPSK 4/5 30K	QPSK 2/3 BUK	QPSK 2/3 240K		QPSK 2/3 BUK	QPSK 2/3 QPSK 2/3	
Mod Cod	le .		QPSK_2/3_	QPSK_2/3_240K_				QPSK_4/5_			16PSK_2/3
	ksps	30	60	240,0	30	60	240	30	60,0	240	240
Transmitted information data rate per											
	kbps / burst	3,6	6,4	27,0	3,6	6,4	27,0	3,6	6,4	27,0	53,9
Link Budget Service Label											
Satellite isoflux EIRP per burst	dBW	21,1	21,1	27,1	21,2	21,2	19,7	10,7	13,7	19,7	22,0
Free space loss	dB	-154,5	-154,5	-154,5	-154,5	-154,5	-154,5	-154,5	-154,5	-154,5	-154,5
Propagation loss (line of sight)	dB	-0,33	-0,33	-0,3	-0,33	-0,33	-0,33	-0,33	-0,3	-0,33	-0,33
Receive Power Flux Density	dBW/m2	-108,1	-108,1	-102.1	-108,0	-108,0	-109,5	-118,5	-115,5	-109,5	-107,2
Faded Receive Power Flux Density	dBW/m2	-116,3	-117,9	-112,1	-118,3	-119,9	-114,1	-127,3	-128,9	-123,1	-115,6
SE G/T	dB/K	-29,0	-29,0	-29,0	-27,0	-27,0	-27,0	-18,0	-18,0	-18,0	-18,0
Receiver Signal Strength (LOS)	dBWi	-133,7	-133,7	-127,7	-133,6	-133,6	-135,1	-144,1	-141,1	-135,1	-132,8
C/No	dBHz	65,9	65,9	71,9	68,0	68,0	66,5	66,5	69,5	75,5	77,8
Es/No	dB	21,1	18,1	18,1	23,2	20,2	12,7	21,7	21,7	21,7	24,0
Required Es/(No+lo)	(dB)	9,4	6,0	5,9	9,4	6,0	5,9	9,4	6,0	5,9	12,2
Reference Min RSS @threshold	dBWi	-145,0	-145,6	-139,7	-147,0	-147,6	-141,7	-156,0	-156,6	-150,7	-143,8
Reference Min PFD @threshold	dBW/m2	-119,4	-120,0	-114,1	-121,4	-122,0	-116,1	-130,4	-131,0	-125,1	-118,1
Overall interferences (C/I = Es/ID)	dB	12,0	10,0	10,0	12,0	10,0	10,0	12,0	10,0	10,0	15,0
External interference with N/I = 12.2 dB	dBW/m2/Hz	-186	-186	-186	-188	-188	-188	-197	-197	-197	-197
External interference contribution (C/I)	dB	35	31	30	33	29	28	24	20	19	27
Required Es/(No)	dB	12,8	8,2	8,0	12,8	8,2	8,0	12,8	8,2	8,0	15,5
Required RSS @threshold	dBWi	-142,0	-143,6	-137,8	-144,0	-145,6	-139,8	-153,0	-154,6	-148,8	-141,3
Fade margin including statistical benefit	dB	8,2	9,9	10,0	10,3	12,0	4,6	8,8	13,5	13,6	8,4

Table 9 – L band downlink budget (NEXT terminals)