

Downlink : LA			SPOT			99.9%		
Satellite Location: 118.8 WL								
Uplink			Downlink			Clear Rain		
UL Freq	GHz	25.0	DL Freq	GHz	17.5	17.5		
ES Ant Dia	m	13.0	ES Ant Dia	inches	18.0	18.0		
ES Ant Gain	dBW	67.6	Satellite EIRP	dBW	54.9	54.9		
ES Tx Power	dBW	13.0	ES ptg loss	dB	-0.1	-0.1		
ES OBO	dBW	-3.0	Free space loss	dB	-208.7	-208.7		
ES Output Losses	dBW	-1.5	Atmos loss	dB	-0.5	-0.5		
ES ptg loss	dB	-0.5	Rain & Other loss	dB	0.0	-2.2		
ES EIRP (Clear)	dBW	75.6	Wetting loss	dB	0.0	-0.5		
Free space loss	dB	-211.8	Total loss	dB	-209.3	-212.0		
Sat G/T	dB/K	17.5	ES G/T	dB/K	16.4	14.3		
C/N (thermal)	dB	35.8	Bandwidth	dB-Hz	74.1	74.1		
Uplink Power Control	dB	12.0	C/N (thermal)	dB	16.5	11.8		
UL Spot Beam Interf	dB	27.0	DL Spot Beam Interf	dB	17.0	17.0		
Adj Carr Interf	dB	30.0	Adj Carr Interf	dB	20.0	20.0		
Adj Sat Interf	dB	35.0	Adj Sat Interf	dB	20.2	20.2		
Cross Pol	dB	30.0	Cross Pol	dB	25.0	25.0		
Total UL C/I	dB	24.0	Total DL C/I	dB	13.7	13.7		

SUMMARY

Clear			Rain		
UL C/N (thermal)	dB	35.8	UL C/N (thermal)	dB	35.8
DL C/N (thermal)	dB	16.5	DL C/N (thermal)	dB	11.8
Total UL C/I	dB	24.0	Total UL C/I	dB	24.0
Total DL C/I	dB	13.7	Total DL C/I	dB	13.7
Total C/(N+I)	dB	11.6	Total C/(N+I)	dB	9.4
Req'd C/(N+I)	dB	7.1	Req'd C/(N+I)	dB	7.1

Table B-5

Downlink : NEW YORK SPOT 99.9%

Satellite Location: 118.8 WL

Uplink			Downlink		Clear	Rain
UL Freq	GHz	25.0	DL Freq	GHz	17.5	17.5
ES Ant Dia	m	13.0	ES Ant Dia	inches	26.0	18.0
ES Ant Gain	dBW	67.6	Satellite EIRP	dBW	58.3	58.3
ES Tx Power	dBW	13.00	ES ptg loss	dB	-0.2	-0.2
ES OBO	dBW	-3.00	Free space loss	dB	0.7	0.7
ES Output Losses	dBW	-1.50	Atmos loss	dB	-209.1	-209.1
ES ptg loss	dB	-0.5	Rain & Other loss	dB	0.0	-8.4
ES EIRP (Clear)	dBW	75.6	Wetting loss	dB	0	-0.5
Free space loss	dB	-212.2	Total loss	dB	-208.6	-217.5
Sat G/T	dB/K	17.5	ES G/T	dB/K	19.1	15.9
C/N (thermal)	dB	35.5	Bandwidth	dB-Hz	40.2	40.2
Uplink Power Control	dB	18.7	C/N (thermal)	dB	21.7	9.7
UL Spot Beam Interf	dB	27.0	DL Spot Beam Interf	dB	17.0	17.0
Adj Carr Interf	dB	30.0	Adj Carr Interf	dB	20.0	20.0
Adj Sat Interf	dB	35.0	Adj Sat Interf	dB	22.9	22.9
Cross Pol	dB	30.0	Cross Pol	dB	25.0	25.0
Total UL C/I	dB	24.0	Total DL C/I	dB	14.2	14.2

SUMMARY

Clear			Rain		
UL C/N (thermal)	dB	35.5	UL C/N (thermal)	dB	35.5
DL C/N (thermal)	dB	21.7	DL C/N (thermal)	dB	9.7
Total UL C/I	dB	24.0	Total UL C/I	dB	24.0
Total DL C/I	dB	14.2	Total DL C/I	dB	14.2
Total C/(N+I)	dB	13.1	Total C/(N+I)	dB	8.2
Req'd C/(N+I)	dB	7.1	Req'd C/(N+I)	dB	7.1

Table B-6

Downlink :	ORLANDO	SPOT	99.8%				
Satellite Location: 118.8 WL							
Uplink		Downlink		Clear		Rain	
UL Freq	GHz	25.0	DL Freq	GHz	17.5	17.5	
ES Ant Dia	m	13.0	ES Ant Dia	inches	26.0	18.0	
ES Ant Gain	dBW	67.6	Satellite EIRP	dBW	61.1	61.1	
ES Tx Power	dBW	13.00	ES ptg loss	dB	-0.2	-0.2	
ES OBO	dBW	-3.00	Free space loss	dB	-208.9	-208.9	
ES Output Losses	dBW	-1.50	Atmos loss	dB	-0.7	-0.7	
ES ptg loss	dB	-0.5	Rain & Other loss	dB	0.0	-11.6	
ES EIRP (Clear)	dBW	75.6	Wetting loss	dB	0	-0.5	
Free space loss	dB	-211.8	Total loss	dB	-209.8	-221.9	
Sat G/T	dB/K	17.5	ES G/T	dB/K	19.4	15.7	
C/N (thermal)	dB	35.8	Bandwidth	dB-Hz	74.1	74.1	
Uplink Power Control	dB	22.4	C/N (thermal)	dB	25.2	9.5	
UL Spot Beam Interf	dB	27.0	DL Spot Beam Interf	dB	17.0	17.0	
Adj Carr Interf	dB	30.0	Adj Carr Interf	dB	20.0	20.0	
Adj Sat Interf	dB	35.0	Adj Sat Interf	dB	23.1	23.1	
Cross Pol	dB	30.0	Cross Pol	dB	25.0	25.0	
Total UL C/I	dB	24.0	Total DL C/I	dB	14.2	17.0	

SUMMARY

Clear			Rain		
UL C/N (thermal)	dB	35.8	UL C/N (thermal)	dB	35.8
DL C/N (thermal)	dB	25.2	DL C/N (thermal)	dB	9.5
Total UL C/I	dB	24.0	Total UL C/I	dB	24.0
Total DL C/I	dB	14.2	Total DL C/I	dB	14.2
Total C/(N+I)	dB	13.4	Total C/(N+I)	dB	8.1
Req'd C/(N+I)	dB	7.1	Req'd C/(N+I)	dB	7.1

Table B-7

Downlink :	HONOLULU SPOT			99.7%		
Satellite Location: 118.8 WL						
Uplink			Downlink		Clear	Rain
UL Freq	GHz	25.0	DL Freq	GHz	17.5	17.5
ES Ant Dia	m	13.0	ES Ant Dia	inches	-217.9	18.0
ES Ant Gain	dBW	67.6	Satellite EIRP	dBW	-0.6	-0.6
ES Tx Power	dBW	13.00	ES ptg loss	dB	0.0	-0.5
ES OBO	dBW	-3.00	Free space loss	dB	0.7	0.7
ES Output Losses	dBW	-1.50	Atmos loss	dB	-208.9	-208.9
ES ptg loss	dB	-0.5	Rain & Other loss	dB	0.0	-7.2
ES EIRP (Clear)	dBW	75.6	Wetting loss	dB	0	-0.5
Free space loss	dB	-211.8	Total loss	dB	-208.2	-216.4
Sat G/T	dB/K	17.5	ES G/T	dB/K	24.8	21.4
C/N (thermal)	dB	35.8	Bandwidth	dB-Hz	74.1	74.1
Uplink Power Control	dB	22.4	C/N (thermal)	dB	24.8	13.0
UL Spot Beam Interf	dB	27.0	DL Spot Beam Interf	dB	17.0	17.0
Adj Carr Interf	dB	30.0	Adj Carr Interf	dB	20.0	20.0
Adj Sat Interf	dB	35.0	Adj Sat Interf	dB	28.4	28.4
Cross Pol	dB	30.0	Cross Pol	dB	25.0	25.0
Total UL C/I	dB	24.0	Total DL C/I	dB	14.6	14.6

SUMMARY

Clear			Rain		
UL C/N (thermal)	dB	35.8	UL C/N (thermal)	dB	35.8
DL C/N (thermal)	dB	24.8	DL C/N (thermal)	dB	13.0
Total UL C/I	dB	24.0	Total UL C/I	dB	24.0
Total DL C/I	dB	14.6	Total DL C/I	dB	14.6
Total C/(N+I)	dB	13.8	Total C/(N+I)	dB	10.5
Req'd C/(N+I)	dB	7.1	Req'd C/(N+I)	dB	7.1

Table B-8