



LINK BUDGET CALCULATIONS RESULTS

CARRIER INFORMATION

DATA RATE	6500	kbps
NUMBER OF PHASES	4	
FEC	3 / 4	
REED-SOLOMON	188 / 204	
REQUIRED Eb/No	5.50	dB
IF BANDWIDTH	4,702	kHz
C/N REQUIRED	6.91	dB
Spacing Factor	1.35	

MARGINS

Faded System Margin	1.0	dB
Uncompensated U/L Fade	0.0	dB
Required Downlink Availability	99.950%	

TRANSPONDER OPERATIONS

Transponder SCPC IBO	7	dB
Transponder SCPC OBO	4	dB
Carrier IBO	16.50	dB
Carrier OBO	13.50	dB

UPLINK INFORMATION

UPLINK SITE	NEW YORK NY
UPLINK SFD	-96.98 dBW/m2
ATTENUATOR	8 dB
UPLINK G/T	4.91 dB/K
UPLINK FREQ	14120.00 MHz
UPLINK EIRP	57.02 dBW
UPLINK C/N	16.7 dB

OTHER INFORMATION

DOWNLINK FREQ	11820.00 MHz
ASSUMED C/I	14.0 dB
SATELLITE	AM01
TRANSPONDER	06K
Transponder Bandwidth	36 MHz

RESULTS SUMMARY

Required Bandwidth	6.348 MHz
Allocated Bandwidth	6.350 MHz
Carrier PEB	4.04 MHz

UPLINK RESULTS

Antenna Size	1 meters
Efficiency	0.65
Losses	2 dB
HPA Power	56.16 Watts
Up Density	-15.21 dBW/4KHz

LOCATION	ANTENNA SIZE (meters)	CARRIER EIRP (dBW)	CLEAR SKY DOWNLINK C/N (dB)	CLEAR SKY TOTAL C/N (dB)	CLEAR SKY TOTAL Eb/No (dB)	MARGIN TO REQUIRED Eb/No (dB)	AVERAGE ANNUAL AVAIL	FAILS AVAIL CRITERIA
NEW YORK NY	4.50	34.05	21.6	10.7	9.3	3.8	99.976%	

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