

Globalstar, L.P.
Exhibit B

ANALYSIS OF THE IMPACT OF GLOBALSTAR
FEEDERLINK OPERATION ON THE FIXED SERVICE

Exhibit B contains an analysis of the impact of Globalstar space-to-earth feederlink operations in the 10.95-11.2 GHz and 11.45-11.7 GHz bands on co-primary Fixed Service operations prepared by Comsearch. The analysis assumes a gateway earth station at the same location as the existing Globalstar USA, L.L.C., gateway earth station at Clifton, Texas. The Comsearch analysis is labeled preliminary because it does not take into account detailed terrain variations. As noted in the study, although the preliminary analysis found several cases of interference that failed to meet the long term interference objective of 156 dBW/1 MHz, "terrain pathloss calculations indicate that there is sufficient pathloss to resolve all of these cases."

PRELIMINARY INTERFERENCE ANALYSIS REPORT
KU-Band Transmit/Receive Earth Station

Prepared for

Globalstar USA
Clifton, Texas

September 3, 2002

PRELIMINARY INTERFERENCE ANALYSIS

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SECTION 1

INTRODUCTION

Transmit/Receive Earth Station

This report presents the results of a preliminary interference analysis for a proposed KU-band transmit/receive earth station site. The site was selected by Globalstar and is located near Clifton, Texas.

The earth station was analyzed for transmission and reception of analog and digital traffic, to and from all satellites located in the satellite arc from 90 to 110 degrees West Longitude. The following receive bands were considered in this analysis, 10950 to 11200 MHz, 11450 to 11700 MHz. The long-term interference objective for the receive band, is -156 dBW/1 MHz.

The transmit portion of the KU-band (14000 to 14500 MHz) is an unshared spectrum. Therefore, the potential for interference does not exist, and this portion of the spectrum is not addressed in this analysis.

The analysis considers only direct antenna to antenna coupling, and cannot predict potential interference due to reflections or microwave energy.

The preliminary analysis is meant to provide an overview of potential interference at this location and to recommend a course of future action.

SECTION 2

CONTENTS OF THE REPORT

Transmit/Receive Earth Station

Section 1 presents the introduction describing the system characteristics including site location, system name, type reception, satellite arc, frequency band considered, type antenna, and interference objectives.

Section 2 describes the contents of this report.

Section 3 presents a preliminary analysis data sheet. This sheet presents system location data, preliminary analysis conclusions, and a summary of the analysis with recommendations.

Tables 3.1-1 and 3.1-2 summarize the results of the preliminary analysis for the 11 and 12 GHz bands, with predicted over-the-horizon (O-H) losses calculated for the various potential interference cases. The columns, reading from left to right, represent the following data:

- | | | |
|---------------|---|--|
| 1. Path | - | Interference source and transmission path. |
| 2. Band | - | Frequency band in GHz. |
| 3. Azimuth | - | Azimuth from the earth station toward the interference source (bearing measured from True North) |
| 4. Distance | - | Distance to interference source (kilometers) |
| 5. LOS Margin | - | Free space interference margin in dB, on a line-of-sight (LOS) basis, i.e., additional isolation required to meet objective (no blockage assumed). |
| 6. O-H Loss | - | Estimated over-the-horizon loss in dB, (predictions consider antenna height and path length, no detailed terrain data used). |

7. Revised Margin - Considering O-H Loss difference between LOS margin and O-H loss in dB (negative values indicate interference is unlikely).

The cases marked with an asterisk are the cases posing the greatest interference problems.

Section 4 summarizes the data pertinent to the receive portion of the proposed KU-band transmit/receive earth station.

Table 4.1-1 contains the operational parameters of the proposed earth station.

Table 4.1-2 lists the azimuth and elevation data for the satellite arc, including those satellites within that arc.

Figure 4.1-1 indicates the location of the proposed transmit/receive earth station. This location should be verified, and if it is not the desired site, Comsearch should be notified immediately so that the precise location can be plotted and analyzed.

SECTION 3

PRELIMINARY INTERFERENCE ANALYSIS DATA SHEET

KU-BAND TRANSMIT-RECEIVE EARTH STATION

1. **Applicants Name:** Globalstar USA
2. **City:** Clifton, Texas
3. **Site Identification:** Non Specified
4. **Coordinates:** **Latitude (North DMS):** 31 48 00.0
 Longitude (West DMS): 97 36 46.8
5. **Ground Elevation:** 718 feet AMSL
6. **Preliminary Analysis Conclusions:**
 - (X) A. Site is likely to be acceptable.
 - () B. Detailed analysis required to further analyze potential interference problems
 - () C. Near in blockage may be required toward azimuths of potential interference cases.
 - () D. On site RFI measurements may be required to quantitatively establish the local environment
 - () E. Alternate site should be considered for an antenna location.
8. **Summary of Analysis with Recommendations:**

The preliminary analysis indicates that several potential terrestrial interference cases were identified in the receive spectrum. All of the potential interference cases are listed in Tables 3.1-1 of this Preliminary Analysis Report.

Receive Band - 11 GHz (10950 to 11200 and 11450 to 11700 MHz)

The preliminary analysis found several cases of potential interference that failed to meet the long term interference objective of -156 dBW/1 MHz. However, terrain pathloss calculations indicate that there is sufficient pathloss to resolve all of these cases.

Table 3.1-1

Earth Station Preliminary Analysis Report
08/26/2002

Earth Station Name CLIFTON TX
 Owner GLOBALSTAR USA INC
 Latitude (DMS) (NAD83) 31 48 0.0 N
 Longitude (DMS) (NAD83) 97 36 46.8 W
 Ground Elevation (Ft/m) 718.01 / 218.84 AMSL
 Antenna Centerline (Ft/m) 8.99 / 2.74 AGL
 Antenna Model FCC Reference 32-25LOG(THETA)
 Objectives: Receive -156.0 (dBW /1 MHz)

Path	Band (GHz)	Azimuth (Deg)	Dist (Km)	Margin dB	EST OH Loss dB	EST Margin dB
1. HOLLY - TO -W BOLT ST	11	13.5	107.7	22.3	27.79	-5.5
2. 10909 SANDEN- TO -901 MAIN	11	35.0	149.6	13.8	37.43	-23.6
3. ONE MAIN PL - TO -CEDAR HILL	11	34.9	132.9	11.1	31.31	-20.1
4. PRIME MEDIA - TO -IRVING	11	27.8	153.2	6.0	37.87	-31.8
5. PRIME MEDIA - TO -IRVING	11	27.8	153.2	2.2	37.78	-35.5
6. EULESS MTSO - TO -ARLINGTON	11	23.1	125.7	2.2	32.66	-30.4
7. RANDOL MILL - TO -ROLLING HILL	11	19.0	113.0	-2.6	29.03	-31.6

Table 4.1-1

SATELLITE EARTH STATION
FREQUENCY COORDINATION DATA
08/26/2002

Company	GLOBALSTAR USA INC	
Owner code	GLOUSA	
Earth Station Name, State	CLIFTON, TX	
Latitude (DMS) (NAD83)	31 48 0.0 N	
Longitude (DMS) (NAD83)	97 36 46.8 W	
Ground Elevation AMSL (Ft/m)	718.01 /	218.84
Antenna Centerline AGL (Ft/m)	8.99 /	2.74
Receive Antenna Type:	FCC32	FCC Reference
		32-25LOG(THETA)
11.0 GHz Gain (dBi) / Diameter (m)	54.0 /	5.5
3 dB / 15 dB Half Beamwidth	0.16 /	0.32
Operating Mode	RECEIVE ONLY	
Modulation	ANALOG & DIGITAL	
Emission / Receive Band (MHz)	4M92G7W / 10950.0000 - 11200.0000	
	4M92G7W / 11450.0000 - 11700.0000	
Max permissible Interference Power		
11.0 GHz, 20% (dBW/1 MHz)	-156.0	
11.0 GHz, 0.0100% (dBW/1 MHz)	-146.0	
Range of Satellite Arc (Geostationary)		
Degrees Longitude	90.0 W /	110.0 W
Azimuth Range (Min/Max)	165.8 /	202.6
Corresponding Elevation Angles	52.1 /	50.6
Radio Climate	A	
Rain Zone	2	
Max Great Circle Coordination Distance (Mi/Km)		
11.0 GHz	143.7 /	231.4
Precipitation Scatter Contour Radius (Mi/Km)		
11.0 GHz	62.1 /	100.0

Table 4.1-2

Earth Station Azimuth and Elevation Table
08/26/2002

Earth Station Name CLIFTON TX
 Owner GLOBALSTAR USA INC
 Latitude (DMS) (NAD83) 31 48 0.0 N
 Longitude (DMS) (NAD83) 97 36 46.8 W
 Ground Elevation (Ft/m) 718.01 / 218.84 AMSL
 Antenna Centerline (Ft/m) 8.99 / 2.74 AGL
 Satellite Arc Range 90.0 W
 110.0 W

Satellite Longitude	Azimuth (Degrees)	Elevation (Degrees)	Satellite Name
90.0	165.8	52.1	
91.0	167.6	52.3	GALAXY 7
92.0	169.4	52.5	
93.0	171.3	52.6	GSTAR 3
94.0	173.2	52.8	
95.0	175.1	52.9	GALAXY 3R
96.0	176.9	52.9	
97.0	178.8	53.0	TELSTAR 5
97.0	178.8	53.0	TELSTAR 401
98.0	180.7	53.0	
99.0	182.6	52.9	GALAXY 4
100.0	184.5	52.9	
101.0	186.4	52.8	AMSC-1
101.0	186.4	52.8	SPACENET 4
101.0	186.4	52.8	DBS-1, DBS-2
102.0	188.3	52.7	
103.0	190.1	52.5	GE-1
103.0	190.1	52.5	GSTAR 1
104.0	192.0	52.3	
105.0	193.8	52.1	GSTAR 4
106.0	195.6	51.9	
107.0	197.4	51.6	
108.0	199.2	51.3	
109.0	200.9	51.0	
109.2	201.3	50.9	SOLIDARIDAD-1
110.0	202.6	50.6	

