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JUL 16 2001

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

July 16, 2001

BY HAND DELIVERY

Magalie Roman Salas, Secretary
Federal Communications Commission
445 12th St., SW, Counter TW-A325
Washington, DC 20554

Re: *Ex Parte*
Ka-Band Application of Celsat America, Inc.
IB Docket 98-172

Dear Ms. Salas:

On July 13, 2001, the undersigned held a telephone conference with Karl Kensinger and Kal Krautkramer of the Commission's International Bureau. On the call, we discussed various technical issues related to the Ka-band application of Celsat America, Inc. *See* File Nos. 26/27/28-DSS-P-94, 36-SAT-AMEND-95, 65/66/67-SAT-AMEND-96, 26/27/28-DSS-P/LA-97, 88-SAT-AMEND-98, SAT-AMD-20001103-00153. In addition, in response to a request by Commission staff, I emailed to Mr. Kensinger and Mr. Krautkramer the attached chart, which provides a roadmap of the location of various Ka-band technical information in the application (and amendments thereto).

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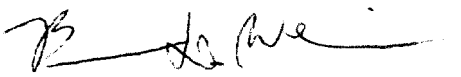
In accordance with section 1.1206(b) of the Commission's rules, two copies of this letter are being submitted for inclusion in the docket noted above. Please direct any questions concerning this matter to the undersigned.

Sincerely,



Brian D. Weimer
Counsel for Celsat America, Inc.

cc: Karl Kensinger
Kal Krautkramer

Celsat Application Technical Information

	Rule Section	Technical Information Requested	Location of Information
		I. Identified by Kal Krautkramer of the International Bureau	
1	25.114(c)(5)	Radio frequencies and polarization plan (including beacon, telemetry, and telecommand functions)	Radio frequencies are listed on the revised Celsat Spacecraft Link Budget (filed 7/9/2001). 1997 Link Budget (located at Attachment B to Amendment to Application 26/27/28 - DSS-P-94: pgs. 5&6 (9/25/97)) Id. pgs. 5&6 (9/25/97) Master Application (4/12/94) : Summary, vi; App. H, App. Amendment to Application 26/27/28 - DSS - P -94 (1/6/1998) pg. 3 Amendment to Application 26/27/28 - DSS - P - 94 (12/19/97) pg. 3 Polarization information is listed in the ITU AP information attached to the September 25, 1997 Amendment. Polarization is also listed on the April 8, 1994 Master Application, section D (Table D-5), and in other tables and appendices.
2	25.114(c)(5)	Center frequency and polarization of transponders (both receiving and transmitting frequencies)	Center frequencies are listed on the revised Celsat Spacecraft Link Budget. 1997 Link Budget Polarization information is contained on the ITU AP information attached to the September 25, 1997 Amendment. Polarization information is also contained in the Master Application (Section D, tables, and appendices).

	Rule Section	Technical Information Requested	Location of Information
3	25.114(c)(5)	Emission designators and allocated bandwidth of emissions	Emission designators and bandwidths are listed on September 25, 1997 Amendment at Forms AP4-3 for S-band and Ka-band frequencies.
4	25.114(c)(5)	Final amplifier output power (identify any net losses between output of final amplifier and input of antenna and specify the maximum EIRP for each antenna beam)	Output power, certain losses, and EIRP is listed in the Link Budget, and in the ITU AP (AP4-2K) information attached to the September 25, 1997 Amendment. Master Application - Table D3: Satellite Power Budgets, Appendix A.10 part 34-35 discusses EIRP per cell and over the total bandwidth, & Table A 1.1 gives the total EIRP per beam
5	25.114(c)(5)	Identification of which antenna beams are connected or switchable to each transponder and TT&C function	Discussion of 480 uplink and 12 downlink beams is given in AP4-3S-A1 / AP4-3K-A1 respectively (and subsequently one specific representative beam of both uplink and downlink beams in AP4-3) (9/25/97 Amendment).
6	25.114(c)(5)	Receiving system noise temperature	This information is listed in the ITU AP information attached to the September 25, 1997 Amendment. AP4-2S 4/9/97Part C: Satellite Network Characteristics in the Earth to Space Direction "Rx Noise Temp" is also listed in Table A-1.1 (RF Plan) to the Master Application.
7	25.114(c)(5)	The relationship between satellite receive antenna pattern and gain-to-temperature ratio and saturation flux density for each beam (may be indicated on antenna gain plot)	Gain contour plots are included in the ITU AP information attached to the September 25, 1997 Amendment.
		The gain of each transponder channel (between output of	Gain information is contained in the ITU AP information attached

	Rule Section	Technical Information Requested	Location of Information
8	25.114(c)(5)	receiving antenna input of transmitting antenna) including any adjustable gain step capabilities	to the September 25, 1997 Amendment. Gain information is also listed in the Master Application at Section D, the tables, and appendices (App. A.10; line 24).
9	25.114(c)(5)	Predicted receiver and transmitter channel filter response characteristics	Filter selectivity will be sufficient to assure interference levels in adjacent channels will meet assumptions in the Celsat Spacecraft Link Budget.
10	25.114(c)(7)	Predicted space station antenna gain contour(s) for each transmit and receive antenna beam and nominal orbital location requested. These contour(s) should be plotted on an area map at 2 dB intervals down to 10 dB below the peak value of the parameter and at 5 dB intervals between 10dB and 20dB below the peak values, with the peak value and sense of polarization clearly specified on each plotted contour.	Gain (Figs A-6.1-6.14, A-7.1) are attached to the ITU AP information attached to the September 25, 1997 Amendment. Gain contours are also plotted in attachments to the Master Application.
11	25.114(c)(8)	A description of the types of services to be provided, and the areas to be served, including the following:	General information regarding the Services is listed in the Amendments and in the Master Application. Amendment to Application 26/27/28 - DSS -P-94; pg. 2-3 (9/25/97) Master Application: Public Interest/Demand, pg. 36
12	25.114(c)(8)	A description of the transmission characteristics and performance objectives for each type of proposed service	Master Application gives performance objectives in Sections A & B
13	25.114(c)(8)	Details of the link noise budget	See Revised Celsat Spacecraft Link Budget.
14	25.114(c)(8)	Typical or baseline earth station parameters.	See Revised Celsat Spacecraft Link Budget. Ground terminal is expected to be between 7 and 14 meters.

	Rule Section	Technical Information Requested	Location of Information
			Earth station pattern is attached as Figure A-7.1 to the Master Application as described by A-7. In A.10 under the discussion of Table 1, attached to the Master Application, there is a discussion of the baseline.
15	25.114(c)(8)	Modulation parameters	Discussed in ITU AP information attached to the September 25, 1997 Amendment. Modulation information given in App. H to the Master Application, pg. 2
16	25.114(c)(8)	Overall link performance analysis (including an analysis of the effects of each contributing noise and interference source)	See Revised Celsat Spacecraft Link Budget. Appendix A-9 attached to the Master Application discusses the link power budgets outlined in Tables A-10.1-A-10.16.
17	25.114(c)(9)	For satellites in geostationary-satellite orbit, accuracy with which the orbital inclination, antenna axis attitude, and longitudinal drift will be maintained.	Antenna pointing accuracy is listed in Table D-1 of the Master Application. Orbital inclination and longitude are given in A-5 attached to the Master Application Inclination excursion, longitudinal tolerance, nominal orbital longitude, service arc, and visibility arc listed in appendix 4; AP4-1-A1.
18	25.114(c)(10)	Calculation of power density levels within each coverage area and the energy dispersal, if any, needed for compliance with	Not applicable. None of the frequency ranges set forth in § 25.208 appear to be applicable to Celsat.

	Rule Section	Technical Information Requested	Location of Information
		§ 25.208	Max power density mentioned in App. H, pg. 2 attached to the Master Application and again in A-8
19	25.114(c)(17)	The information specified in § 25.140	See number 21 below.
20	25.140(b)(1)	The information specified in § 25.114	See numbers 1-18 above.
21	25.140(b)(2)	An interference analysis to demonstrate the compatibility of the proposed system 2 degrees from any authorized space station.	Ka-band ground apertures will be between 7 and 14 meters which will assure compatibility with a 2 degree space station separation.
		II. Additional Information Regarding Technical Sections These items were not been identified by Kal Krautkramer	
	25.114(c)(6)(i)	For satellites in geostationary-satellite orbit, orbital location, or locations if alternatives are proposed, requested for the satellite	Orbital location requests changed throughout the legal process of this matter - the places in which different orbital requests and changes appear are listed below: AP-4 Docs in Para entitled, "Reasons Why Service Arc is Less than Visible Arc" Master Application (4/12/94) : Summary; pg. 31 of the Technical System Description; and Part II Sections B, C, and D of the HPCS Application

	Rule Section	Technical Information Requested	Location of Information
			All orbits that can be used for this service are listed in App. H in the Master Application
	25.114(c)(6)(i)	The factors that support such an orbital assignment	AP-4 Doc in Para entitled, "Reasons Why Service Arc is Less than Visible Arc"
	25.114(c)(6)(i)	The range of orbital locations from which adequate service can be provided and the basis for determining that range of orbital locations	AP-4 Doc in Para entitled, "Reasons Why Service Arc is Less than Visible Arc" A-4 attached to the Master Application
	25.114(c)(6)(i)	A detailed explanation of all factors that would limit the orbital arc over which the satellite could adequately serve its expected users	AP-4 Doc in Para entitled, "Reasons Why Service Arc is Less than Visible Arc" A-3 attached to the Master Application
	25.114(c)(6)(iii)	The feeder link and inter-satellite service frequencies requested for the satellite	An explanation concerning the variety of feeder link frequencies Celsat will accept is located in AP4-2K-A2 (9/25/97 Amendment)
	25.114(c)(11)	Arrangement for tracking, telemetry, and control	Amendment to Application 26/27/28 - DSS-P-94: pg. 5-7 (9/25/97)
	25.114(c)(12)	Physical characteristics of the space station including weight and dimensions of spacecraft, detailed mass (on ground and in-orbit) and power (beginning and end of life) budgets, and estimated operational lifetime and reliability of the space station and the basis for that estimate	Estimated operation lifetime is listed in Amendment to Application 26/27/28 - DSS-P-94: pg. 7 and Master Application Physical characteristics of the space station including detailed mass (on ground and in-orbit), power, and other general details concerning the station can be found in the Master Application at Table D-1: Principal Spacecraft Characteristics and in Table D-2: Satellite Mass Budget Power budget data found in Master Application at Table D-3 Link Power Budget in A.10 attached to the Master Application