

STEPTOE & JOHNSON ^{LLP}

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December 29, 2006

FILED/ACCEPTED
DEC 29 2006
Federal Communications Commission
Office of the Secretary

Via HAND DELIVERY

Marlene H. Dortch
Secretary
Federal Communications Commission
International Bureau
445 12th Street, S.W.
Washington, DC 20554

Re: **EchoStar Satellite L.L.C. - File No. SAT-LOA-20030609-00113, Call Sign S2454**

Dear Ms. Dortch:

On November 29, 2006, the International Bureau granted EchoStar Satellite L.L.C. ("EchoStar") authority to construct a new Direct Broadcast Satellite service satellite to be operated at 86.5° W.L. *EchoStar Satellite L.L.C.*, DA 06-2440, Order and Authorization, File No. SAT-LOA-20030609-00113 (rel. Nov. 29, 2006). As a condition of the grant, EchoStar is required to submit all information needed to modify the ITU's Appendix 30 Broadcasting-Satellite Service ("BSS") Plans and the associated Appendix 30A feeder link Plans to incorporate the characteristics of its new satellite. *Id.* at ¶ 28, condition d. The Order also states that EchoStar will be held responsible for any cost recovery fees associated with these ITU filings. *Id.*

In fulfillment of these conditions, EchoStar hereby submits a computer disk containing six files, which provide all of the information required to modify the ITU's Appendix 30 BSS Plans and the associated Appendix 30A feeder link Plans. EchoStar is also providing, as Attachment A, a printout of the Appendix 4 information included in the USABSS-27.mdb file included on the disk. Finally, EchoStar is submitting a letter accepting responsibility for any cost recovery fees associated with the ITU filings. *See* Attachment B.

Marlene H. Dortch
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If you have any questions regarding the attached documents or disk, please do not hesitate to contact me.

Sincerely,



Pantelis Michalopoulos
Counsel for EchoStar Satellite L.L.C.

Attachments

cc: (via electronic mail, with attachments)
Robert Nelson, International Bureau
Kathryn Medley, International Bureau
Kathleen Campbell, International Bureau
Chip Fleming, International Bureau
Diane Garfield, International Bureau

Attachment A

E-TSUM Requested by: GISELLE Date: 30.12.1899 12:00:00 AM DB: USABSS-27 (DEC 06) MDS Plan Id.: 30.2 Notice type: GBO

A1a Sat Network USABSS27 A17i Notifying adm. USA A17j Inter. sat. org. BR1 Date of receipt 08.11.1999 BR200/BR21 IFC no./part /

BR6a/BR6b Id no. 99555004 BR3a/BR3b Provision reference 4.2.6 B BR2 Adm. serial no. B27R R

A1b Plan beam identification

A12 Submitted on behalf

A4a1 Orbital long. 86.5 W A4a2a East Long. tolerance limit 0.05 A4a2b West Long. tolerance limit 0.05

A11a Start time UTC 0 A11b Stop time UTC 24

B1a Beam designation B27R B1b Steerable B2 Emi-Rsp R B3a1 Max. co-polar gain 40 B3a2 Max. cross-polar gain 10

B3b1 Co-polar ant. gain contours diag. 1 B3b2 Cross-polar ant. gain contours diag. 2 B3e Ant. gain vs orbit long. diag. 3 B3f Boresight or aim point 108.18 W 36.65 N

BR7a Group id. 7293 BR1 Date of receipt BR2 Date of protection C15a Exclusive op. group

A2a Date of bringing into use 01.12.2013 A3a Op. agency 146 A3b Adm. resp. A C15a Exclusive op. group

BR62 Expiry date for bringing into use BR64 Date of receipt of 1st Res49

C4a Class of station EC C3a Assigned freq. band 24000 C5a Noise temperature 900

C6a Polarization type CR C6b Polarization angle C11a4 Service area name USA C11a5e Min. elev. angle C11a3 Service area diagram

C11a1 Service area no. C11a4 Service area name USA C11a5e Min. elev. angle C11a3 Service area diagram

C11a5a Test points

C11a5b Longitude	-112	-111.48	-111	-105	-104.44	-104
C11a5c Latitude	34	33.21	33	42	41.7	41
C11a5d Altitude	0	0	0	0	0	0
BR49 Rain zone	E	E	E	E	E	E

Associated typical earth station antenna characteristics

C10a3 Max. iso. gain	C10a4 Bmwidth	C10a5a1 Co-polar ref. pattern	C10a5b1 Cross-polar ref. pattern	C10a7 Ant. diameter
65	0.1	APUSA211V01	APUSA211V01	13.2

C2a1 Assigned frequency / C2a2 Channel number

17.33858 GHz	2	17.42606 GHz	8	17.51354 GHz	14	17.60102 GHz	20	17.6885 GHz	26	17.77598 GHz	32
17.36774 GHz	4	17.45522 GHz	10	17.5427 GHz	16	17.63018 GHz	22	17.71766 GHz	28		
17.3969 GHz	6	17.48438 GHz	12	17.57186 GHz	18	17.65934 GHz	24	17.74682 GHz	30		

Maximum Power density per Hz over ...

C7a Design. of emission	C8b1 Max. peak pwr	C8b2 1 MHz	C8b Necessary bandwidth	C8f Power control
24M0G7W--	17	-56.8	-56.8	9

A12 Range of automatic gain control 9

BR7a Group id. 7297 BR1 Date of receipt BR2 Date of protection C15a Exclusive op. group

A2a Date of bringing into use 01.12.2013 A3a Op. agency 146 A3b Adm. resp. A C15a Exclusive op. group

BR62 Expiry date for bringing into use BR64 Date of receipt of 1st Res49

C4a Class of station EC C3a Assigned freq. band 24000 C5a Noise temperature 900

C6a Polarization type CL C6b Polarization angle C11a4 Service area name USA C11a5e Min. elev. angle C11a3 Service area diagram

C11a1 Service area no. C11a4 Service area name USA C11a5e Min. elev. angle C11a3 Service area diagram

Associated typical earth station antenna characteristics are identical to group id. 7293

C2a1 Assigned frequency / C2a2 Channel number

17.324 GHz	1	17.41148 GHz	7	17.49896 GHz	13	17.58644 GHz	19	17.67392 GHz	25	17.7614 GHz	31
17.35316 GHz	3	17.44064 GHz	9	17.52812 GHz	15	17.6156 GHz	21	17.70308 GHz	27		
17.38232 GHz	5	17.4698 GHz	11	17.55728 GHz	17	17.64476 GHz	23	17.73224 GHz	29		

E-TSUM Requested by: GISELLE Date: 30.12.1899 12:00:00 AM DB: USABSS-27 (DBC 06). MOD Plan Id.: 30.2 Notice Type: GEO
 A A1a Sat. Network USABSS27 A1f1 Notifying adm. USA A1f3 Inter. sat. org. BR1 Date of receipt 08.11.1999 BR200/BR21 I/IC no./part /
 BR6a/BR6b Id. no. 99555004 BR2a/BR3b Provision reference 4.2.6 B BR2 Adm. serial no. B27R R
 C7a/C8 Designations of emissions and power characteristics are identical to group id. 7293
 A12 Range of automatic gain control 9

B1a Beam designation B27T B1b Steerable B2 Earth-Rps E B3a1 Max. co-polar gain 34.2 B3a2 Max. cross-polar gain 4
 B3b1 Co-polar ant. gain contours diag. 4 B3b2 Cross-polar ant. gain contours diag. 5 B3b1 Boresight or aim point 87.67 W 31.28 N
 BR7a Group id. 7294 BR1 Date of receipt BR2 Date of protection C15a Exclusive op. group BR64 Date of receipt of 1st Res-49
 A2a Date of bringing into use 01.12.2013 A3a Op. agency 146 A3b Adm. resp. A C15a Exclusive op. group BR64 Date of receipt of 1st Res-49
 BR62 Expiry date for bringing into use C3a Assigned freq. band 24000 BR64 Date of receipt of 1st Res-49
 C4a Class of station EV C6b Polarization angle C6b Polarization angle 24000
 C6a Polarization type CR C11a4 Service area name USA, PTR, VIR, MEX C11a5e Min. elev. angle C11a3 Service area diagram
 C11a1 Service area no. C11a4 Service area name USA, PTR, VIR, MEX C11a5e Min. elev. angle C11a3 Service area diagram

C11a5b Test points		C11a5a Test points		C11a5a Test points		C11a5a Test points		C11a5a Test points		C11a5a Test points	
C11a5b Longitude	-123.8	-123.8	-122.3	-122.3	-117	-117	-109	-109	-108.9	-108.9	-108.9
C11a5b Latitude	40.3	40.3	48.7	48.7	32.8	32.8	31.6	31.6	26	26	26
C11a5b Altitude	0	0	0	0	0	0	0	0	0	0	0
BR49 Rain zone	D	D	D	D	E	E	E	E	E	E	E

C10a3 Max. iso. gain		C10a4 Bmwidth		C10a5a1 Co-polar ref. pattern		C10a5b1 Cross-polar ref. pattern		C10a7 Ant. diameter	
33.3	3.76	MODRES	MODRES	MODRES	MODRES	MODRES	MODRES	0.45	0.6
35.8	2.83	MODRES	MODRES	MODRES	MODRES	MODRES	MODRES	0.6	0.6

C2a1 Assigned frequency / C2a2 Channel number		C2a1 Assigned frequency / C2a2 Channel number		C2a1 Assigned frequency / C2a2 Channel number		C2a1 Assigned frequency / C2a2 Channel number		C2a1 Assigned frequency / C2a2 Channel number			
12.23858	2	12.32606	8	12.41354	14	12.50102	20	12.5885	26	12.67598	32
12.26774	4	12.35522	10	12.4427	16	12.53018	22	12.61766	28		
12.2969	6	12.38438	12	12.47186	18	12.55934	24	12.64682	30		

C7a Design. of emission C8b1 Max. peak pwr C8b2 4 KHz C8b Necessary bandwidth
 24M0G7W-- 21.8 -52
 BR7a Group id. 7295 BR1 Date of receipt BR2 Date of protection C15a Exclusive op. group BR64 Date of receipt of 1st Res-49
 A2a Date of bringing into use 01.12.2013 A3a Op. agency 146 A3b Adm. resp. A C15a Exclusive op. group BR64 Date of receipt of 1st Res-49
 BR62 Expiry date for bringing into use C3a Assigned freq. band 24000 BR64 Date of receipt of 1st Res-49
 C4a Class of station EV C6b Polarization angle C6b Polarization angle 24000
 C6a Polarization type CL C11a4 Service area name USA, ALS, HWZ, MEX C11a5e Min. elev. angle C11a3 Service area diagram
 C11a1 Service area no. C11a4 Service area name USA, ALS, HWZ, MEX C11a5e Min. elev. angle C11a3 Service area diagram
 C11a5a Test points are identical to group id. 7294
 Associated typical earth station antenna characteristics are identical to group id. 7294

C2a1 Assigned frequency / C2a2 Channel number
 12.224 GHz 1 12.31148 GHz 7 12.39896 GHz 13 12.48644 GHz 19 12.57392 GHz 25 12.6614 GHz 31
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E-TSUM Requested by: GISERLLE Date: 22.12.2006 3:32:40 PM DB: USABSS-27 (DEC 06). MDB
 A1a Sat. Network USABSS27 A1f1 Notifying adm. USA A1f3 Inter. sat. org.
 BR6a/BR6b Id. no. 99555004 BR3a/BR3b Provision reference 4.2.6 B BR1 Date of receipt 08.11.1999 BR20/BR21 I/FIC no./part
 Plan Id.: 30_2 Notice type: GEO
 BR2 Adm. serial no. B27T E
 12.25316 GHz 3 12.34064 GHz 9 12.42812 GHz 15 12.5156 GHz 21 12.60308 GHz 27
 12.28232 GHz 5 12.3698 GHz 11 12.45728 GHz 17 12.54476 GHz 23 12.63224 GHz 29
 C7a/C8 Designations of emissions and power characteristics are identical to group id. 7294

C9 Modulation characteristics		C7a Designation of emission 24M0G7W--	
C9a1 Type of modulation	MDP-4 QPSK MDPQ	MDP-4 QPSK MDPQ	C7a Designation of emission 24M0G7W--
C9a3a Freq. deviation of the pre-emphasized signal			
C9a3b Pre-emphasis characteristics	MRT TDM MDT	MRT TDM MDT	
C9a3c Type of multiplexing			
C9a6a Peak-to-peak freq. dev.			
C9a6b Sweep frequency			
C9a6c Energy dispersal wavelom			
C9a7 Type of energy dispersal	La porteuse subit toujours un effet d'étalement du spectre dû a la présence du flux numérique Carrier always spread by digital stream Portadora dispersada siempre por tren digital	La porteuse subit toujours un effet d'étalement du spectre dû a la présence du flux numérique Carrier always spread by digital stream Portadora dispersada siempre por tren digital	
C9a9 TV standard	Numerique Digital	Codage numérique Digital coding Codificación digital	
C9b1 Sound-broadcasting		Numerique Digital	
C9b2 Baseband		Signal numérique composé avec un débit binaire total de 22 Mbit/s Composed digital signal with an aggregate bit rate of 22 Mbits/s Señal digital compuesta con una velocidad binaria total de 22 Mbit/s	
BR7a Group id.	7297	7293, 7294, 7295	

E-TSUM Requested by: GISELLE Date: 22.12.2006 3:32:40 PM DB: USABSS-27 (DEC 06) MDB
 A A1a Sat Network USABSS27 A111 Notifying adm. USA A113 Inter sat org.
 BR6a/BR6b Id. no. 99555004 BR3a/BR3b Provision reference 4.2.6 B BR1 Date of receipt 08.11.1999 BR20/BR21 H/C no./part /
 Plan id: 30_2 Notice type: GEO
 BR2 Adm. serial no. B27T E

D1a1	Beam designation	D1a2	BR7a Group id.	D1a3	Assigned frequency	D1a4	D1a3	Channel	D1a4
	Feeder-link	Downlink	Feeder-link	Downlink	Feeder-link	Downlink	Feeder-link	Downlink	
	B27R	B27T	Connexion de chaque canal de la liaison descendante au même canal de la liaison de connexion Connection of each downlink channel to the same feeder link channel Conexión de cada canal del enlace descendente al mismo canal del enlace de conexión						

Attachment B

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December 29, 2006

Marlene H. Dortch
Secretary
Federal Communications Commission
International Bureau
445 12th Street, S.W.
Washington, DC 20554

Dear Ms. Dortch:

This letter is submitted on behalf of EchoStar Satellite L.L.C. ("EchoStar") in connection with EchoStar's proposed satellite network USABSS-27 at the 86.5° W orbital location. *See EchoStar Satellite L.L.C.*, DA 06-2440, Order and Authorization, File No. SAT-LOA-20030609-00113 (rel. Nov. 29, 2006).

EchoStar is aware that as a result of the actions taken at the 1998 Plenipotentiary Conference, processing fees will now be charged by the International Telecommunication Union ("ITU") for satellite network filings. As a consequence, Commission applicants are responsible for any and all fees charged by the ITU. EchoStar hereby states that it is aware of and unconditionally accepts this requirement and its responsibility to pay any ITU cost recovery fees associated with the aforementioned ITU filing at the appropriate time. In addition, all correspondence with EchoStar regarding ITU cost recovery issues should be directed to the undersigned.

Please feel free to contact me with any questions regarding this submission.

Sincerely,



Pantelis Michalopoulos
Counsel for EchoStar Satellite L.L.C.

cc: (via electronic mail)
Robert Nelson, International Bureau
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Kathleen Campbell, International Bureau

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Diane Garfield, International Bureau