

## **SUPPLEMENT**

Attached is a revised FCC Form 312/Schedule B to reflect minor updates to the receive frequencies (#E43-E44, Sched. B) and modulation/service description for each transmit/frequency band (#E50, Sched. B), as follows:

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|------------------------------------|---|
| 1. Transmit: 29992.6 – 29993.4 MHz | Modulation and services: PCM/PSK/FM/TT&C                    |
| 2. Transmit: 29994.6 – 29995.4 MHz | Modulation and services: PCM/PSK/FM/TT&C                    |
| 3. Receive: 20196.6 – 20197.4 MHz  | Modulation and services: Phase modulation/BPSK/<br>PCM/TT&C |
| 4. Receive: 20198.6 – 20199.4 MHz  | Modulation and services: Phase modulation/BPSK/<br>PCM/TT&C |

SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 – Schedule B:(Technical and Operational Description)  
FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1. Site Identifier:	2	E5. Call Sign:	E150076
E2. Contact Name	Hughes Network Management Center	E6. Phone Number:	3014287205
E3. Street:	801 North Dish Drive	E7. City:	Gilbert
		E8. County:	Maricopa
E4. State	AZ	E9. Zip Code	85233
E10. Area of Operation:	CONUS		
E11. Latitude:	33 °21 '56.54 "N		
E12. Longitude:	111 °48 '49.06 "W		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> N/A
E14. Site Elevation (AMSL):	371.2 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

#### POINTS OF COMMUNICATION

Satellite Name: ECHOSTAR XXIV(S3017)   ECHOSTAR XXIV   95.2 W.L.   If you selected OTHER, please enter the following:
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E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size<meters>	E41/42. Antenna Gain Transmint and/or Recieve (____dBi at ____GHz)	
2	1	1	CPI Satcom & Antenne Technolgies	9.2 meter	9.2	66.2 dBi at 30	
2	1	1	CPI Satcom & Antenne Technolgies	9.2 meter	9.2	63.3 dBi at 20.2	

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers(dBW)
1	9.2/9.2	0.0	11.2	0.0	239.0	0.0	90.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)

1	29992.6 29993.4	T	Left Hand Circular	800KG7D	90.0	67.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 10px; min-height: 100px;">PCM/PSK/FM/TT&amp;C</div>						
1	29994.6 29995.4	T	Left Hand Circular	800KG7D	90.0	67.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 10px; min-height: 100px;">PCM/PSK/FM/TT&amp;C</div>						
1	20196.6 20197.4	R	Right Hand Circular	400KG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 10px; min-height: 100px;">Phase modulation/BPSK/PCM/TT&amp;C</div>						

1	20198.6 20199.4	R	Right Hand Circular	400KG7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 10px; min-height: 100px;"> Phase modulation/BPSK/PCM/TT&amp;C </div>						

#### FREQUENCY COORDINATION

<b>E28. Antenna Id</b>	<b>E51. Satellite Orbit Type</b>	<b>E52/53. Frequency Limits(MHz)</b>	<b>E54/55. Range of Satellite Arc Eastern/West ern Limit</b>	<b>E56. Earth Station Azimuth Angle Eastern Limit</b>	<b>E57. Antenna Elevation Angle Eastern Limit</b>	<b>E58. Earth Station Azimuth Angle Western Limit</b>	<b>E59. Antenna Elevation Angle Western Limit</b>	<b>E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)</b>
1	Geostationary	20196 20200	95.2/95.2	208.5	47.3	208.5	47.3	−9999.0
	Geostationary	29992 30000	95.2/95.2	151.5	47.3	151.5	47.3	−9.1

#### REMOTE CONTROL POINT LOCATION

E61. Call Sign  NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	E66. Phone Number
E62. Street Address	

E63. City	E68. County	E67/68. State/Country /	E64. Zip Code
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