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Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS FCC Use Only FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Borrego, CA

Name:	Antilles Wireless LLC	Phone Number:	308-236-1510
DBA Name:		Fax Number:	308-698-1443
Street:	920 E 56th St Suite B	E–Mail:	amber. reineke@usacommunications.tv
	P O Box 1057		
City:	Kearney	State:	NE
Country:	USA	Zipcode:	68847 –
Attention:	Ms Amber Reineke		

9–16. Name of Contact Representative

Name: Barry Kisselman Phone Number: 303–918–5251

Company: Antilles Wireless LLC **Fax Number:**

Street: 920 E 56th St E–Mail: barry.

kisselman@usacommunications.tv

Suite B

City: Kearney State: NE

Country: USA Zipcode: 68847–

Attention: Barry Kisselman **Relationship:** Engineer

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b. a. a. a. 1. Earth Station (N/A) a2. Space Station	b. b1. Application for License of New Station b2. Application for Registration of New Domestic Receive—Only Station (N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration (N/A) b5. Assignment of License or Registration (N/A) b6. Transfer of Control of License or Registration (N/A) b7. Notification of Minor Modification (N/A) b8. Application for License of New Receive—Only Station Using Non—U.S. Licensed Satellite (N/A) b9. Letter of Intent to Use Non—U.S. Licensed Satellite to Provide Service in the United States
	■ b10. Other (Please specify)
	♦ b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to
	Provide the Proposed Service in the Proposed Frequencies in the United States. b12. Application for Database Entry
	(N/A) b13. Amendment to a Pending Database Entry Application (N/A) b14. Modification of Database Entry
17c. Is a fee submitted with this application	ion?
	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
Governmental Entity Noncomme	ercial educational licensee
Other(please explain):	
17d.	
Fee Classification CMO – Receive Only E	arth Station

18. If this filing is in reference to an existing station, enter: (a) Call sign of station: Not Applicable 19. If this filing is an amendment to a pending application enter: (a) Date pending application was filed: (b) File number of pending application: Not Applicable Not Applicable
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TYPE OF SERVICE	
20. NATURE OF SERVICE: This filing is for an authorization to provide	or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite	
b. Mobile Satellite	
c. Radiodetermination Satellite	
d. Earth Exploration Satellite	
e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service	
g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
O Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER sefacilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these
O Connected to a Public Switched Network Not connected to	o a Public Switched Network

24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)
c.Other (Please specify upper and lower frequencies in MHz.)
Frequency Lower: 3700 Frequency Upper: 4200
TYPE OF STATION
25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
a. Fixed Earth Station
b. Temporary–Fixed Earth Station
c. 12/14 GHz VSAT Network
d. Mobile Earth Station
(N/A) e. Geostationary Space Station
(N/A) f. Non–Geostationary Space Station
g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY: Choose only one.
Transmit/Receive Transmit—Only Receive—Only N/A
PURPOSE OF MODIFICATION
TORIOSE OF MODIFICATION
27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
Not Applicable

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	C	Yes	⊚ No	D.
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	utical e	n route	or	
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes	s ⊚ N	0	
30. Is the applicant an alien or the representative of an alien?	O Yes	6 6 N	o o N	J/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	s ⊚ N	о о ^N	J/A
32. Is the applicant a corporation of which more than one–fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes	6 N	о о N	I/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes ● N	To O N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.		
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	○ Yes	No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	○ Yes	No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	⊚ No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	⊚ No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	O Yes	⊘ No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	O Yes	⊚ No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, coordinated or is in the process of coordinating the space station?	, what administ	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the not appear in this box, please go to the end of the form to view it in its entirety.)	e complete desc	eription does
Receive- only Earth station to operate with permitted list satellites to reservices from the National Weather Service	eceive broa	adcast

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	● A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	O B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	o c

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

Individual				
-				
T				
• Partnership				
Corporation				
Governmental Entity				
Other (please specify)				
45. Name of Person Signing Barry Kisselman 47. Please supply any need attachn	nents.	46. Title of Person Sign Field Technical Operati		
Attachment 1:	Attachment 2:		Attachment 3:	
(U.S. Code,	TEMENTS MADE ON THIS FO Title 18, Section 1001), AND/OI itle 47, Section 312(a)(1)), AND/OI	R REVOCATION OF ANY S		ENT

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: Borrego Headend E5. Call Sign:

E2: Contact Name Barry Kisselman E6. Phone 303–918–5251

Number:

E3. Street: 2455 Stirrup Rd E7. City: Borrego Springs

E8. County: San Diego

E4. State CA E9. Zip Code 92004

E10. Area of Operation: Borrego Springs, CA

E11. Latitude: 33 °15 '29.23 "N

E12. Longitude: 116 °22 '15.13 "

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 410.0 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.	● Y	es	O No	O 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?	OY	es	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	0 '	Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0 7	Yes	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0 '	Yes	•	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.	1	Yes	•	No
POINTS OF COMMUNICATION				
Satellite Name: PERMITTED LIST If you selected OTHER, please enter the following:				

E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:		
E21. Common Name: E22. ITU Name:			
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 15 (S2387) GALAXY 15 133.1 If you	selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:		

E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	ER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:PERMITTED LIST If you selected OTHER, p	please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	you selected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:GALAXY 15 (S2387) GALAXY 15 133.1 If you	a selected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	ected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location: E24. Country:				
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:			
E21. Common Name: E22. ITU Name:				
E23. Orbit Location:	E24. Country:			
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	R, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E22. ITU Name: E24. Country:			
Satellite Name:PERMITTED LIST If you selected OTHER, p	lease enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name: GALAXY 15 (S2387) GALAXY 15 133.1 If you	selected OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:		
E21. Common Name: E22. ITU Name:			
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	R, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: PERMITTED LIST If you selected OTHER, p	lease enter the following:		

E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:		
E21. Common Name: E22. ITU Name:			
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 15 (S2387) GALAXY 15 133.1 If you	selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
	•		
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:		

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:SES-3 (S2892) 103 W.L.	If you selected OTHER, please enter the following:		
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></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Borrego Headend	1	1	Patriot	NA	3.8	65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	3					65.0 dBi at 4200
						65.0 dBi at 4200

			65.0 dBi at 4200
			65.0 dBi at 4200
 4		3.1	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
5	Superior	3.7	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
 6	Hytek	5.0	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200

7	Prodelin	3.1	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
8			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200

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	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
1	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
1	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
1	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0

2	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	410.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	410.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	410.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	410.0	0.0	0.0	0.0	0.0
6	5.0/5.0	4.0	410.0	0.0	0.0	0.0	0.0
6	5.0/5.0	4.0	410.0	0.0	0.0	0.0	0.0
6	5.0/5.0	4.0	410.0	0.0	0.0	0.0	0.0
6	5.0/5.0	4.0	410.0	0.0	0.0	0.0	0.0
7	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
7	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
7	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0

7	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
8	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
8	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
8	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
8	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency (MHz)	Bands	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	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Service	s (If th	he complete descrip	tion does not appear in	this box, please go	to the end of the form	to view it in its

Video

			_				
1	3700	4200	R	Horizontal and	36MOG7D	0.0	0.0
				Vertical			

E50. Modulation entirety.)	and Services	s (If tl	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Scrvices	, (II u	ie complete description	on does not appear in	Tims box, pieuse go t	o the end of the form	to view it in its
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	s (If the	ne complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulatio entirety.)	n and Service	es (If t	he complete descripti	ion does not appear is	n this box, please go t	to the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulatio entirety.) Video					n this box, please go		
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulatio entirety.) Video					n this box, please go		
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	n and Services	s (If the	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	s (If the	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Services	s (If the	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	s (If the	ne complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	s (If the	ne complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	s (If the	ne complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its			
Video										
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0			
E50. Modulation entirety.) Video										
4	3700	4200	R	Horizontal and Vertical	36MOG7D	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.) Video										
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0			

E50. Modulation entirety.)	and Services	s (If t	he complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
entirety.) Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	s (If the	he complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
6	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
6	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
6	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	(If tl	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
6	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
entirety.) Video			he complete description				
7	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If the	he complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
7	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
7	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
7	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
8	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
8	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
8	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
8	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

650. Modulation and Services rety.)	(If the complete description does not appear in this box, please go to the end of the form to view it in its	
Video		

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
2	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
3	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
4	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
5	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
6	Geostationary	3700 4200	40.0/ 135.0	154.0	50.0	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.0	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.0	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.0	227.0	25.5	0.0
7	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
8	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	

E62. Street Address			
E63. City	E67. County	E64/68. State/Country	E66. Zip Code

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: Borrego Headend E5. Call Sign:

E2: Contact Name Barry Kisselman E6. Phone 303–918–5251

Number:

E3. Street: 2455 Stirrup Rd E7. City: Borrego Springs

E8. County: San Diego

E4. State CA E9. Zip Code 92004

E10. Area of Operation: Borrego Springs, CA

E11. Latitude: 33 °15 '29.23 "N

E12. Longitude: 116 °22 '15.13 "

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 410.0 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	• Yes	O No	O N/A
two-degree spacing policy.			
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?	O Yes	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	•	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.	O Yes	•	No
POINTS OF COMMUNICATION			
Satellite Name:PERMITTED LIST If you selected OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
	•		
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	you selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: GALAXY 15 (S2387) GALAXY 15 133.1 If yo	u selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location: E24. Country:			
	•		
Satellite Name: GALAXY 18 GALAXY 18 123 W.L. If you seld	ected OTHER, please enter the following:		
E21. Common Name: E22. ITU Name:			
E23. Orbit Location:	E24. Country:		
	•		
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
	•		
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	IER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
	•		
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	ected OTHER, please enter the following:		

E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	ER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:PERMITTED LIST If you selected OTHER, p	lease enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	you selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 15 (S2387) GALAXY 15 133.1 If you	selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	ected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:		

E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	R, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:PERMITTED LIST If you selected OTHER, p	lease enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 15 (S2387) GALAXY 15 133.1 If you	selected OTHER, please enter the following:		

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:PERMITTED LIST If you selected OTHER, p	lease enter the following:

E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If	you selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 15 (S2387) GALAXY 15 133.1 If yo	ou selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sel	ected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	d OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	HER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
	•		
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sel	ected OTHER, please enter the following:		

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:SES-3 (S2892) 103 W.L.	If you selected OTHER, please enter the following:		
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></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Borrego Headend	1	1	Patriot	NA	3.8	65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	3					65.0 dBi at 4200
						65.0 dBi at 4200

					65.0 dBi at 4200
					65.0 dBi at 4200
4				3.1	65.0 dBi at 4200
					65.0 dBi at 4200
					65.0 dBi at 4200
					65.0 dBi at 4200
5		Superior		3.7	65.0 dBi at 4200
					65.0 dBi at 4200
					65.0 dBi at 4200
					65.0 dBi at 4200
6		Hytek		5.0	65.0 dBi at 4200
					65.0 dBi at 4200
					65.0 dBi at 4200
					65.0 dBi at 4200
	5	5	Superior	Superior	Superior 3.7

7	Prodelin	3.1	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
8			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200

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	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
1	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
1	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
1	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0

2	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	410.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	410.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	410.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	410.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	410.0	0.0	0.0	0.0	0.0
6	5.0/5.0	4.0	410.0	0.0	0.0	0.0	0.0
6	5.0/5.0	4.0	410.0	0.0	0.0	0.0	0.0
6	5.0/5.0	4.0	410.0	0.0	0.0	0.0	0.0
6	5.0/5.0	4.0	410.0	0.0	0.0	0.0	0.0
7	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
7	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
7	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0

7	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
8	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
8	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
8	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0
8	3.1/3.1	4.0	410.0	0.0	0.0	0.0	0.0

FREQUENCY

	E43/44. Frequency Bands (MHz)		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	3700 4200	R	Horizontal and Vertical	36MOG7D	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.)

Video			

1 3700 4200 R	Horizontal and Vertical 36MOG7D	0.0
---------------	---------------------------------	-----

E50. Modulation entirety.)	and Services	s (If tl	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Scrvices	, (II u	ie complete description	on does not appear in	Tims box, pieuse go t	o the end of the form	to view it in its
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	s (If the	ne complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	s (If t	he complete descripti	on does not appear ir	n this box, please go t	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Services	s (If t	he complete descripti	on does not appear ir	n this box, please go t	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Services	s (If t	he complete descripti	on does not appear in	n this box, please go t	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its		
Video									
3	3700	4200	R	Horizontal and Vertical	36MOG7D	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.) Video									
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0		
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its		
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0		

E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its		
Video									
3	3700	4200	R	Horizontal and Vertical	36MOG7D	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.) Video									
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0		
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its		
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0		

E50. Modulation entirety.)	and Services	s (If t	ne complete description	on does not appear ir	this box, please go t	o the end of the form	to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
entirety.) Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	s (If the	he complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	(If tl	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	- (II u	ne complete description	on does not appear in	uns box, piease go u	o the end of the form	to view it in its
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If tl	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
6	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
6	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
6	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
6	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
7	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
7	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	s (If t	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Video							
7	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video			he complete description				
7	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	s (If the	he complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
8	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	n and Service	es (If t	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
8	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Service	es (If t	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
8	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Service	es (If t	he complete descripti	ion does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
8	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

650. Modulation and Services rety.)	(If the complete description does not appear in this box, please go to the end of the form to view it in its	
Video		

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
2	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
3	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
4	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
5	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
6	Geostationary	3700 4200	40.0/ 135.0	154.0	50.0	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.0	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.0	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.0	227.0	25.5	0.0
7	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
8	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	

E62. Street Address			
E63. City	E67. County	E64/68. State/Country	E66. Zip Code

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: Salton City E5. Call Sign:

Headend

E2: Contact Name Barry Kisselman E6. Phone 303–918–5251

Number:

E3. Street: 115 North Montana E7. City: Salton City

E8. County: Imperial

E4. State CA E9. Zip Code 92275

E10. Area of Operation: Salton City, CA

E11. Latitude: 33 °17 '22.71 "N

E12. Longitude: 115 °58 '6.97 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 NAD-83

E14. Site Elevation (AMSL): -23.0 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.	⊚ Ye	s C	No	O 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?	O Ye	s C	No	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Y	es	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Y	es	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Y	es	•	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.	O Y	es	•	No
POINTS OF COMMUNICATION				
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If you selected OTHER, please enter the follow	ing:			

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:SES-11 (S2964) SES-11 104.95 If y	you selected OTHER, please enter the following:
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></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Salton City Headend	2	1	Patriot	NA	3.8	65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	3					65.0 dBi at 4200
						65.0 dBi at 4200

			65.0 dBi at 4200
			65.0 dBi at 4200
4		3.7	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
5	Kaul Tronics	3.1	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200

Id	Diameter	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	Height Above Ground Level 	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
1	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0

1	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
1	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
1	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-23.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-23.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-23.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-23.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	-23.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	-23.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	-23.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	-23.0	0.0	0.0	0.0	0.0
							

FREQUENCY

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

1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Service	es (If the	he complete descrip	otion does not appear	in this box, please	go to the end of t	he form to view it in its
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Service	es (If the	he complete descrip	otion does not appear	in this box, please	go to the end of t	he form to view it in its
Video							

1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Servic	es (If the	ne complete desc	cription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Servic	es (If the	ne complete desc	cription does not appear	in this box, please	go to the end of	the form to view it in its
Video							

2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Service	es (If tl	ne complete descrip	tion does not appear	in this box, please §	go to the end of	the form to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Service	es (If tl	ne complete descrip	tion does not appear	in this box, please g	go to the end of	the form to view it in its
Video							

3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	on and Service	ces (If t	he complete d	escription does not appear	in this box, please	go to the end of t	the form to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	on and Service	ces (If t	he complete d	escription does not appear	in this box, please	go to the end of t	the form to view it in its
Video							

4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	on and Service	ces (If the	he complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	on and Service	es (If the	he complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its

4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Service	s (If th	he complete desc	ription does not appear	in this box, please	go to the end of t	he form to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Service	s (If th	he complete desc	ription does not appear	in this box, please	go to the end of t	the form to view it in its

5	3700	4200	R	Horizontal and Vertical	36MOG7D	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.)								
Video								
5	3700	4200	R	Horizontal and Vertical	36MOG7D	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.) Video								

FREQUENCY COORDINATION

		Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station Azimuth Angle	Antenna Elevation Angle Eastern Limit	Station Azimuth Angle		E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
2	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
3	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
4	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
5	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number			
NOTE: Please enter the callsign of the contro callsign for which this application is being filed.				
E62. Street Address				
E63. City	E67. County		E64/68. State/Country	E66. Zip Code

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: Salton City E5. Call Sign:

Headend

E2: Contact Name Barry Kisselman E6. Phone 303–918–5251

Number:

E3. Street: 115 North Montana E7. City: Salton City

E8. County: Imperial

E4. State CA E9. Zip Code 92275

E10. Area of Operation: Salton City, CA

E11. Latitude: 33 °17 '22.71 "N

E12. Longitude: 115 °58 '6.97 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 NAD-83

E14. Site Elevation (AMSL): -23.0 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.	⊗ Yes	o No	O 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?	O Yes	o No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Ye	es 📵	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Ye	s 📵	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Ye	es 🔘	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.	O Ye	es 🔞	No
POINTS OF COMMUNICATION			
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If you selected OTHER, please enter the follow	ing:		

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
	•
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
	•
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:SES-11 (S2964) SES-11 104.95	If you selected OTHER, please enter the following:
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></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Salton City Headend	2	1	Patriot	NA	3.8	65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	3					65.0 dBi at 4200
						65.0 dBi at 4200

			65.0 dBi at 4200
			65.0 dBi at 4200
4		3.7	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
5	Kaul Tronics	3.1	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200

E28. Antenna Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
1	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0

1	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
1	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
1	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
2	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
3	3.8/3.8	4.0	-23.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-23.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-23.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-23.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-23.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	-23.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	-23.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	-23.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	-23.0	0.0	0.0	0.0	0.0

FREQUENCY

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

1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modu	ulation and Servi	ces (If t	he complete of	description does not appear	in this box, please	go to the end of	the form to view it in its
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modu entirety.)	ulation and Servi	ces (If t	he complete d	description does not appear	in this box, please	go to the end of	the form to view it in its
Video							

1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modu entirety.)	lation and Servi	ces (If t	he complete d	lescription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modu entirety.)	llation and Servi	ces (If t	he complete d	description does not appear	in this box, please	go to the end of	the form to view it in its
Video							

2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	lulation and Servi	ces (If t	he complete of	lescription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	ulation and Servi	ces (If t	he complete d	lescription does not appear	in this box, please	go to the end of	the form to view it in its
Video							

3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	dulation and Servi	ces (If t	he complete d	lescription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	dulation and Servi	ces (If t	he complete d	description does not appear	in this box, please	go to the end of	the form to view it in its
Video							

4		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulatio	on and Servi	ces (If t	the comj	plete description does not appea	r in this box, please	go to the end of	the form to view it in its
	Video							
4		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulationirety.)	on and Servi	ces (If t	the comp	plete description does not appea	r in this box, please	go to the end of	the form to view it in its
	Video							
4		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulatio	on and Servi	ces (If t	the comj	plete description does not appea	r in this box, please	go to the end of	the form to view it in its
	Video							

4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	dulation and Servi	ces (If t	he complete d	description does not appear	in this box, please	go to the end of	the form to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	dulation and Servi	ces (If t	he complete d	description does not appear	in this box, please	go to the end of	the form to view it in its
Video							

5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its

FREQUENCY COORDINATION

		Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station Azimuth Angle	Antenna Elevation Angle Eastern Limit	Station Azimuth Angle		E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
2	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
3	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
4	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
5	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number			
NOTE: Please enter the callsign of the contro callsign for which this application is being filed.				
E62. Street Address				
E63. City	E67. County		E64/68. State/Country	E66. Zip Code

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: Salton Sea E5. Call Sign:

Headend

E2: Contact Name Barry Kisselman E6. Phone 303–918–5251

Number:

E3. Street: 75 Brawley Ave E7. City: Salton Sea Beach

E8. County: Imperial

E4. State CA E9. Zip Code 92274

E10. Area of Operation: Salton Sea Beach, CA

E11. Latitude: 33 °22 '26.96 "N

E12. Longitude: 116 °1 '27.96 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): -54.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS proposed antenna(s) comply with the antenna gain patterns specified in Sec by the manufacturer's qualification measurement? If NO, provide as a tech two–degree spacing policy.	ection 25.209(a) and (b) as demonstrated	•	Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service Satellite Service (FSS) with non–geostationary satellites, do(es) the propose gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the measurements?	sed antenna(s) comply with the antenna	0	Yes	O No	● N/A
E17. Is the facility operated by remote control? If YES, provide the locatio point.	•	0	Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	•	0	Yes	•	No
E19. Is coordination with another country required? If YES, attach the nan coordination contours as	• • • •	0	Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) you attached a copy of a completed FCC Form 854 and or the FAA's study structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESU APPLICATION.	y regarding the potential hazard of the	0	Yes	•	No
POINTS OF COMMUNICATION					
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTHER	R, please enter the following:				
E21. Common Name:	E22. ITU Name:			_	

E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected	ed OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selecte	ed OTHER, please enter the following:
•	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.	L. If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: GALAXY 13 GALAXY 13 127 W.L. If	f you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If	f you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selec	eted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:

E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected	ed OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selecte	ed OTHER, please enter the following:
•	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.	L. If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: GALAXY 13 GALAXY 13 127 W.L. If	f you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If	f you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selec	eted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:

E23. Orbit Location: E24. Country:

Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	you selected OTHER, please enter the following:
E23. Orbit Location:	E24. Country:
Satellite Name: GALAXY 13 GALAXY 13 127 W.L. If you selected the satellite Name:	ected OTHER, please enter the following:
E23. Orbit Location:	E24. Country:
· · · · · · · · · · · · · · · · · · ·	ccted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:

·				
E23. Orbit Location:	E24. Country:			
	•			
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTF	HER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTH	IER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L.	f you selected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:GALAXY 13 GALAXY 13 127 W.L. If you se	elected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you se	elected OTHER, please enter the following:			
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></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Salton Sea Headend	1	1	Superior	NA	3.7	65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	2					65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	3					65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200

			65.0 dBi at 4200
4			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
5	Prodelin		65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200

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	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
1	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
1	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0

1	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
2	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
2	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
2	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
2	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
3	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
3	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
3	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
3	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
6	3.1/3.1	4.0	-54.0	0.0	0.0	0.0	0.0
6	3.1/3.1	4.0	-54.0	0.0	0.0	0.0	0.0
6	3.1/3.1	4.0	-54.0	0.0	0.0	0.0	0.0
6	3.1/3.1	4.0	-54.0	0.0	0.0	0.0	0.0

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	3700 4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services (If the	ne complete descripti	on does not appear in	this box, please go	to the end of the form	to view it in its
1	3700 4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go	to the end of the form	to view it in its
Video						
1	3700 4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modula entirety.)	tion and Servi	ices (If the complete	description does not appear	in this box, please	go to the end of	the form to view it in its
Video						
1	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modula entirety.)	tion and Servi	ices (If the complete	description does not appear	in this box, please	go to the end of	the form to view it in its
Video						
2	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modula entirety.)	tion and Servi	ices (If the complete	description does not appear	in this box, please	go to the end of	the form to view it in its
Video						
2	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modul entirety.)	lation and Servi	ices (If the co	mplete description does not appea	r in this box, please	go to the end of	f the form to view it in its
Video						
2	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modul entirety.)	lation and Servi	ices (If the co	mplete description does not appea	r in this box, please	go to the end of	f the form to view it in its
Video						
2	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modul entirety.)	lation and Servi	ices (If the co	mplete description does not appea	r in this box, please	go to the end of	f the form to view it in its
Video						
3	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modula entirety.)	ation and Servi	ices (If the complet	e description does not appear	in this box, please	go to the end of	f the form to view it in its
Video						
3	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modula entirety.)	ation and Servi	ices (If the complet	e description does not appear	in this box, please	go to the end of	f the form to view it in its
Video						
3	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modula entirety.)	ation and Servi	ices (If the complet	e description does not appear	in this box, please	go to the end of	f the form to view it in its
Video						
3	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modu entirety.)	lation and Servi	ices (If the complete	description does not appear	in this box, please	go to the end of	the form to view it in its
Video						
4	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modu entirety.)	lation and Servi	ices (If the complete	description does not appear	in this box, please	go to the end of	the form to view it in its
Video						
4	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modu entirety.)	lation and Servi	ices (If the complete	description does not appear	in this box, please	go to the end of	the form to view it in its
Video						
4	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modu entirety.)	lation and Servi	ices (If the comple	ete description does not appea	r in this box, please	go to the end of	f the form to view it in its
Video						
4	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modu entirety.)	lation and Servi	ices (If the comple	ete description does not appea	r in this box, please	go to the end of	f the form to view it in its
Video						
5	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modu entirety.)	lation and Servi	ices (If the comple	ete description does not appea	r in this box, please	go to the end of	f the form to view it in its
Video						
5	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulati entirety.)	on and Serv	ices (If the c	omplete description does not appea	ar in this box, please	go to the end of	f the form to view it in its
Video						
5	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulati entirety.)	on and Serv	ices (If the c	omplete description does not appea	ar in this box, please	go to the end of	f the form to view it in its
Video						
5	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulati entirety.)	on and Serv	ices (If the c	omplete description does not appea	ar in this box, please	go to the end of	f the form to view it in its
Video						
6	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Mod entirety.)	lulation and Servi	ces (If the complete	description does not appear	in this box, please	go to the end of	the form to view it in its
Voice						
6	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	lulation and Servi	ces (If the complete	description does not appear	in this box, please	go to the end of	the form to view it in its
Voice						
6	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	lulation and Servi	ces (If the complete	description does not appear	in this box, please	go to the end of	the form to view it in its
Voice						
6	3700	4200 R	Horizontal and Vertical	36MOG7D	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.)

Voice	

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
2	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
3	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
Geosta	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
5	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
6	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

•	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
•	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
•	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number				
NOTE: Please enter the callsign of the control callsign for which this application is being filed.					
E62. Street Address					
E63. City	E67. County		E64/68. State/Country	E66. Zip Code	

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: Salton Sea E5. Call Sign:

Headend

E2: Contact Name Barry Kisselman E6. Phone 303–918–5251

Number:

E3. Street: 75 Brawley Ave E7. City: Salton Sea Beach

E8. County: Imperial

E4. State CA E9. Zip Code 92274

E10. Area of Operation: Salton Sea Beach, CA

E11. Latitude: 33 °22 '26.96 "N

E12. Longitude: 116 °1 '27.96 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): -54.0 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.		les .	O No	O 1	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?	0,	les .	O No	• 1	N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	0	Yes	•	, No	
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	•	. No	
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	•	, 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.		Yes	•	. No	
POINTS OF COMMUNICATION					
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTHER, please enter the following:					

E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTH	ER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	ER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If	you selected OTHER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name: GALAXY 13 GALAXY 13 127 W.L. If you sel	ected OTHER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name: GALAXY 14 GALAXY 14 125 W.L. If you sel	ected OTHER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTF	IER, please enter the following:					

E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTH	ER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	ER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If	you selected OTHER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name: GALAXY 13 GALAXY 13 127 W.L. If you sel	ected OTHER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name: GALAXY 14 GALAXY 14 125 W.L. If you sel	ected OTHER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTF	IER, please enter the following:					

E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTH	ER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	ER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If	you selected OTHER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name: GALAXY 13 GALAXY 13 127 W.L. If you sel	ected OTHER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name: GALAXY 14 GALAXY 14 125 W.L. If you sel	ected OTHER, please enter the following:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTF	IER, please enter the following:					

E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	R, please enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name:GALAXY 13 GALAXY 13 127 W.L. If you sele	cted OTHER, please enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:				
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></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Salton Sea Headend	1	1	Superior	NA	3.7	65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	2					65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	3					65.0 dBi at 4200
						65.0 dBi at 4200

			65.0 dBi at 4200
			65.0 dBi at 4200
4			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
5	Prodelin		65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200

Id	Diameter		(meters)	Height Above Ground	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
1	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0

1	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
1	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
1	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
2	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
2	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
2	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
2	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
3	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
3	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
3	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
3	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
5	3.7/3.7	4.0	-54.0	0.0	0.0	0.0	0.0
6	3.1/3.1	4.0	-54.0	0.0	0.0	0.0	0.0
6	3.1/3.1	4.0	-54.0	0.0	0.0	0.0	0.0
6	3.1/3.1	4.0	-54.0	0.0	0.0	0.0	0.0
6	3.1/3.1	4.0	-54.0	0.0	0.0	0.0	0.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency B (MHz)	Bands	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	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	n and Service	es (If t	he complete descripti	on does not appear in	n this box, please go t	o the end of the form	to view it in its
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Service	es (If t	he complete descripti	on does not appear in	n this box, please go t	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Service	es (If t	he complete descripti	ion does not appear in	n this box, please go t	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	n and Services	s (If tl	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	s (If the	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Services	s (If the	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulatio entirety.)	n and Service	es (If t	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Service	es (If t	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulatio entirety.)	n and Service	es (If t	he complete descripti	ion does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	s (If tl	ne complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	s (If tl	ne complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	s (If the	ne complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modu entirety.)	lation and Servi	ices (If the comple	ete description does not appea	r in this box, please	go to the end of	f the form to view it in its
Video						
4	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modu entirety.)	lation and Servi	ices (If the comple	ete description does not appea	r in this box, please	go to the end of	f the form to view it in its
Video						
5	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modu entirety.)	lation and Servi	ices (If the comple	ete description does not appea	r in this box, please	go to the end of	f the form to view it in its
Video						
5	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	ion and Servi	ices (If t	he comple	ete description does not appear	in this box, please	go to the end of	f the form to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	ion and Servi	ices (If t	he comple	ete description does not appear	in this box, please	go to the end of	f the form to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	ion and Servi	ices (If t	he comple	ete description does not appear	in this box, please	go to the end of	f the form to view it in its
Video							
6	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Mod entirety.)	lulation and Servi	ces (If the complete	description does not appear	in this box, please	go to the end of	the form to view it in its
Voice						
6	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	lulation and Servi	ces (If the complete	description does not appear	in this box, please	go to the end of	the form to view it in its
Voice						
6	3700	4200 R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	lulation and Servi	ces (If the complete	description does not appear	in this box, please	go to the end of	the form to view it in its
Voice						
6	3700	4200 R	Horizontal and Vertical	36MOG7D	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.)

Voice			

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
2	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
3	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
4	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
5	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
6	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

•	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
•	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
•	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E65. Phone Number		
NOTE: Please enter the callsign of the control callsign for which this application is being filed.				
E62. Street Address				
E63. City	E67. County		E64/68. State/Country	E66. Zip Code

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: Mecca Headend E5. Call Sign:

E2: Contact Name Barry Kisselman E6. Phone 303–918–5251

Number:

E3. Street: 91200 2nd St E7. City: Mecca

E8. County: Riverside

E4. State CA E9. Zip Code 92254

E10. Area of Operation: Mecca, CA

E11. Latitude: 33 °34 '14.09 "N

E12. Longitude: 116 °4 '30.69 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 57.0 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.	Yes O No O 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?	Yes No No N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes O No
	•
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes O No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes O 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.	Yes No
POINTS OF COMMUNICATION	
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected OTHER, please enter the following:	
E21. Common Name: E22. ITU Name:	

E23. Orbit Location:	E24. Country:
	•
Satellite Name:GALAXY 14 GALAXY 14	125 W.L. If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALA	XY 17 91 W.L. If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L.	If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 15 (S2387) GALA	XY 15 133.1 If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L.	If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
	•
Satellite Name:SES-11 (S2964) SES-11 10	04.95 If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:

E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	ected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	you selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	ER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 15 (S2387) GALAXY 15 133.1 If you	a selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
	•		
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		

E23. Orbit Location:	E24. Country:		
	•		
Satellite Name: GALAXY 14 GALAXY 14 125 W.L.	If you selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 V	W.L. If you selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-3 (S2892) 103 W.L. If you select	eted OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: GALAXY 15 (S2387) GALAXY 15 133	.1 If you selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-1 SES-1 101.0 W.L. If you selec	ted OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-11 (S2964) SES-11 104.95 If yo	ou selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		

E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14	125 W.L. If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: GALAXY 17 (S2715) GALA	AXY 17 91 W.L. If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L.	If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 15 (S2387) GALA	AXY 15 133.1 If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
	•
Satellite Name:SES-1 SES-1 101.0 W.L.	If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
POINTS OF COMMUNICATION (Destin	nation Points)
E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Mecca Headend 1 1	1	DH	NA	2.5	65.0 dBi at 4200
					65.0 dBi at 4200
					65.0 dBi at 4200
					65.0 dBi at 4200
3	Superior		4.6	65.0 dBi at 4200	
					65.0 dBi at 4200
				65.0 dBi at 4200	
				65.0 dBi at 4200	
				65.0 dBi at 4200	
				65.0 dBi at 4200	
				65.0 dBi at 4200	
	2	2	Manufacturer 1 1 DH 2 Superior	Manufacturer 1 1 DH NA 2 Superior	Manufacturer Size <meters> </meters>

			65.0 dBi at 4200
4	Prodelin	3.1	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
5	Kaul Tronics		65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
6			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200

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	2.5/2.5	4.0	57.0	0.0	0.0	0.0	0.0
1	2.5/2.5	4.0	57.0	0.0	0.0	0.0	0.0
1	2.5/2.5	4.0	57.0	0.0	0.0	0.0	0.0
1	2.5/2.5	4.0	57.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
3	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
3	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
3	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
3	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0

5	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
6	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
6	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
6	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
6	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)		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	3700 4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation	and Services (If t	he complete descript	tion does not appear in	this box, please go	to the end of the form	to view it in its

entirety.)

Video	5			

1 3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
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E50. Modulation entirety.)	and Services	s (If tl	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Scrvices	, (II u	ie complete description	on does not appear in	Tims box, pieuse go t	o the end of the form	to view it in its
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	s (If the	ne complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	s (If the	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	s (If the	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	s (If the	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	s (If t	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
entirety.) Video						o the end of the form	
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	s (If the	he complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	s (If the	ne complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	s (If the	ne complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	s (If the	ne complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	s (If t	ne complete description	on does not appear ir	this box, please go t	o the end of the form	to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
entirety.) Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	s (If the	he complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	s (If t	he complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
entirety.) Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	s (If the	he complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
6	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
6	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
6	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

Video							
<u> </u>	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation ntirety.)	and Servic	es (If t	he complete descr	iption does not appear	in this box, please	go to the end of t	he form to view it in i
Video							

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit		E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
2	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
3	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
4	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

5	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
6	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E65. Phone Number		
NOTE: Please enter the callsign of the control callsign for which this application is being filed.				
E62. Street Address				
E63. City	E67. County		E64/68. State/Country	E66. Zip Code

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: Mecca Headend E5. Call Sign:

E2: Contact Name Barry Kisselman E6. Phone 303–918–5251

Number:

E3. Street: 91200 2nd St E7. City: Mecca

E8. County: Riverside

E4. State CA E9. Zip Code 92254

E10. Area of Operation: Mecca, CA

E11. Latitude: 33 °34 '14.09 "N

E12. Longitude: 116 °4 '30.69 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 57.0 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.	● Yes	O No	O 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?	O Yes	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	•	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.	O Yes	•	No
POINTS OF COMMUNICATION	<u> </u>		
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 15 (S2387) GALAXY 15 133.1 If you	selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 15 (S2387) GALAXY 15 133.1 If you	selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: GALAXY 14 GALAXY 14 125 W.L. If you s	selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L.	If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
	•
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OT	HER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 15 (S2387) GALAXY 15 133.1 If	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OT	HER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you select	ted OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 14 GALAXY 14 125 W.L. If you sele	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 15 (S2387) GALAXY 15 133.1 If you	a selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:
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></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Mecca Headend	1	1	DH	NA	2.5	65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	2		Superior		4.6	65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	3					65.0 dBi at 4200
						65.0 dBi at 4200

			65.0 dBi at 4200
			65.0 dBi at 4200
4	Prodelin	3.1	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
5	Kaul Tronics		65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
6			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200

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	2.5/2.5	4.0	57.0	0.0	0.0	0.0	0.0
1	2.5/2.5	4.0	57.0	0.0	0.0	0.0	0.0
1	2.5/2.5	4.0	57.0	0.0	0.0	0.0	0.0
1	2.5/2.5	4.0	57.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
3	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
3	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
3	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
3	4.6/4.6	4.0	57.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
4	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0
5	3.1/3.1	4.0	57.0	0.0	0.0	0.0	0.0

5	3.1/3.1	4.0		57.0	[0	0.0		0.0		0.0	0.0
6	3.1/3.1	4.0		57.0	C	0.0		0.0		0.0	0.0
6	3.1/3.1	4.0		57.0	C	0.0		0.0		0.0	0.0
6	3.1/3.1	4.0		57.0	C	0.0		0.0		0.0	0.0
6	3.1/3.1	4.0		57.0	C	0.0		0.0		0.0	0.0
FREQUENCY I		I			I			l			I
E28. Antenna Id	E43/44. Frequency (MHz)	Bands	E45. T/R M	ode	E46. Anten Polarizatio L,R)		E47. E Design	mission ator		. Maximum P per Carrier W)	E49. Maximum ERIP Density pe Carrier (dBW/4kHz)
	3700	4200	R		Horizontal Vertical	and	36MO	G7D	0.0		0.0
	3700	4200	R		Horizontal Vertical	and	36MO	G7D	0.0		0.0

1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulati entirety.)	on and Service	ces (If t	he complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
entirety.) Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulati entirety.)	on and Service	ces (If t	he complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
Video							

2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	ulation and Servi	ces (If t	he complete d	lescription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	ulation and Servi	ces (If t	he complete d	description does not appear	in this box, please	go to the end of	the form to view it in its
Video							

3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modula entirety.)	ation and Services	s (If the	he complete descrip	ption does not appear	in this box, please	go to the end of t	the form to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modula entirety.)	ation and Services	s (If the	he complete descrip	ption does not appear	in this box, please	go to the end of t	the form to view it in its
Video							

3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulatentirety.)	tion and Servi	ces (If t	he complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modular entirety.)	tion and Servi	ces (If t	he complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
Video							

4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	on and Service	es (If t	he complete des	scription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	on and Servic	es (If the	he complete des	scription does not appear	in this box, please	go to the end of	the form to view it in its
Video							

5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulat entirety.)	ion and Servi	ces (If t	he complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulat entirety.)	ion and Servi	ces (If t	he complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
Video							

6		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E5 entire	50. Modulatio	on and Servi	ces (If t	the complete descrip	otion does not appear	in this box, please	go to the end of t	the form to view it in its
7	Video							
6		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E5 entire	50. Modulation	on and Servi	ces (If t	the complete descrip	ption does not appear	in this box, please	go to the end of t	the form to view it in its
7	Video							
6		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E5 entire	50. Modulation	on and Servi	ces (If t	the complete descrip	ption does not appear	in this box, please	go to the end of t	the form to view it in its
7	Video							

6		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulation rety.)	and Servi	ces (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
	Video							

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
2	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
3	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
4	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
5	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

6	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number			
NOTE: Please enter the callsign of the con callsign for which this application is being file				
E62. Street Address				
E63. City	E67. County		E64/68. State/Country	E66. Zip Code

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: Calipatria Headend E5. Call Sign:

E2: Contact Name Barry Kisselman E6. Phone 303–918–5251

Number:

E3. Street: 125 E Date St E7. City: Calipatria

E8. County: Imperial

E4. State CA E9. Zip Code 92233

E10. Area of Operation: Calipatria, CA

E11. Latitude: 33 °7 '47.32 "N

E12. Longitude: 115 °30 '48.81 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 NAD-83

E14. Site Elevation (AMSL): -56.0 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.	Yes	O No	O 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?	O Yes	O No	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	•	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.	O Yes	•	No
POINTS OF COMMUNICATION			
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	d OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sel	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	HER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHI	ER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:

E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name: GALAXY 18 GALAXY 18 123 W.L. If you sele	ected OTHER, please enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
	•				
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	you selected OTHER, please enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	ER, please enter the following:				
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></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Calipatria Headend	1	1	Superior	NA	4.6	65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	2					65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	3		Patriot		3.2	65.0 dBi at 4200
						65.0 dBi at 4200

			65.0 dBi at 4200
			65.0 dBi at 4200

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	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
1	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
1	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
1	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
3	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
3	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
3	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
3	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
4	2.5/2.5	4.0	-56.0	0.0	0.0	0.0	0.0
4	2.5/2.5	4.0	-56.0	0.0	0.0	0.0	0.0

4	2.5/2.5	4.0	-56.0	0.0	0.0	0.0	0.0
4	2.5/2.5	4.0	-56.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
6	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
6	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
6	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
6	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode			EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1	3700 4200	R	Horizontal and Vertical	36MOG7D	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.)

Video

1	3700	4200	R	Horizontal and	0.0	0.0
				Vertical		

E50. Modulation entirety.)	and Services	s (If tl	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its	
Video								
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0	
E50. Modulation entirety.) Video	and Scrvices	, (II u	ie complete description	on does not appear in	Tims box, pieuse go t	o the end of the form	to view it in its	
1	3700	4200	R	Horizontal and Vertical	36MOG7D	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.) Video								
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0	

E50. Modulation entirety.)	and Services	s (If t	he complete descripti	on does not appear ir	n this box, please go t	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Services	s (If t	he complete descripti	on does not appear ir	n this box, please go t	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Services	s (If t	he complete descripti	on does not appear in	n this box, please go t	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulatio entirety.)	n and Service	es (If t	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Service	es (If t	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulatio entirety.)	n and Service	es (If t	he complete descripti	ion does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation ntirety.)	and Servic	ces (If t	he complete desc	ription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation	and Service	ces (If t	he complete desc	ription does not appear	in this box, please	go to the end of	the form to view it in its
Video							

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)		Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	Antenna Elevation	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
2	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
3	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	
E62. Street Address	

E63. City	E67. County	E64/68.	E66. Zip Code
		State/Country	
		/	

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: Calipatria Headend E5. Call Sign:

E2: Contact Name Barry Kisselman E6. Phone 303–918–5251

Number:

E3. Street: 125 E Date St E7. City: Calipatria

E8. County: Imperial

E4. State CA E9. Zip Code 92233

E10. Area of Operation: Calipatria, CA

E11. Latitude: 33 °7 '47.32 "N

E12. Longitude: 115 °30 '48.81 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): -56.0 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.	● Yes	o No	O 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?	O Yes	o No	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Ye	s 💿	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Ye	s 💿	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Ye	s 💿	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.	O Ye	s 🔞	No
POINTS OF COMMUNICATION			
Satellite Name: SES-1 SES-1 101.0 W.L. If you selected OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	d OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sel	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	HER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHI	ER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R. please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: GALAXY 18 GALAXY 18 123 W.L. If you sele	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
	•
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-3 (S2892) 103 W.L. If you selected OTHE	ER, please enter the following:
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></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Calipatria Headend	1	1	Superior	NA	4.6	65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	2					65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	3		Patriot		3.2	65.0 dBi at 4200
						65.0 dBi at 4200

65.0 dBi at 4200

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	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
1	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
1	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
1	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	-56.0	0.0	0.0	0.0	0.0
3	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
3	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
3	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
3	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
4	2.5/2.5	4.0	-56.0	0.0	0.0	0.0	0.0
4	2.5/2.5	4.0	-56.0	0.0	0.0	0.0	0.0

4	2.5/2.5	4.0	-56.0	0.0	0.0	0.0	0.0
4	2.5/2.5	4.0	-56.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
6	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
6	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
6	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0
6	3.2/3.2	4.0	-56.0	0.0	0.0	0.0	0.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1	3700 4200	R	Horizontal and Vertical	36MOG7D	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.)

Video

1	3700	4200	R	Horizontal and	0.0	0.0
				Vertical		

E50. Modulation entirety.)	and Services	s (If tl	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Scrvices	, (II u	ie complete description	on does not appear in	Tims box, pieuse go t	o the end of the form	to view it in its
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	s (If the	ne complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulation entirety.)	and Services	s (If t	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video		`			71 6	o the end of the form	
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Service	s (If the	ne complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

E50. Modulatio entirety.)	n and Service	es (If t	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Service	es (If t	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulatio entirety.)	n and Service	es (If t	he complete descripti	ion does not appear in	n this box, please go t	to the end of the form	to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0

	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation irety.) Video	and Servic	es (If the	he complete descrip	tion does not appear i	in this box, please	go to the end of t	he form to view it in

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	Elevation	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
2	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
3	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	
E62. Street Address	

E63. City	E67. County	E64/68.	E66. Zip Code
		State/Country	
		/	

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: Julian Headend E5. Call Sign:

E2: Contact Name Barry Kisselman E6. Phone 303–918–5251

Number:

E3. Street: 3218 Pine Hills E7. City: Julian

Crest Dr

E8. County: San Diego

E4. State CA E9. Zip Code 92036

E10. Area of Operation: Julian, CA

E11. Latitude: 33 °4 '14.38 "N

E12. Longitude: 116 °37 '5.04 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 1189.0 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.	Yes	O No	O 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?	O Yes	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	•	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.	O Yes	•	No
POINTS OF COMMUNICATION	!		
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTHER, please enter the following:			

E21. Common Name: E22. ITU Name:			
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	ed OTHER, please enter the following: 322. ITU Name: 324. Country: u selected OTHER, please enter the following: 322. ITU Name: 324. Country: OTHER, please enter the following: 322. ITU Name: 324. Country: splease enter the following: 324. Country: splease enter the following: 325. ITU Name: 326. ITU Name: 327. ITU Name: 328. ITU Name: 329. ITU Name:		
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:		
E21. Common Name: E22. ITU Name:			
E23. Orbit Location:	E22. ITU Name: E24. Country:		
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:		

E21. Common Name:	E22.11U Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	you selected OTHER, please enter the following:			
E21. Common Name: E22. ITU Name:				
E23. Orbit Location:	E24. Country:			
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	ER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	IER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	ected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If	you selected OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country: DTHER, please enter the following: E22. ITU Name: E24. Country: E22. ITU Name: E24. Country: E24. Country: E25. ITU Name: E24. Country: E26. TIU Name: E27. ITU Name: E27. ITU Name: E28. Country: E29. ITU Name: E29. ITU Name: E24. Country: E24. Country: E25. ITU Name: E26. ITU Name: E27. ITU Name: E27. ITU Name: E28. Country:		
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:		
E21. Common Name: E22. ITU Name:			
E23. Orbit Location:	322. ITU Name: 324. Country: please enter the following: 322. ITU Name: 324. Country: R, please enter the following: 322. ITU Name: 324. Country: 40 OTHER, please enter the following: 322. ITU Name: 324. Country: 41 selected OTHER, please enter the following: 42 a selected OTHER, please enter the following: 43 selected OTHER, please enter the following:		
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:		

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:SES-1 SES-1 101.0 W.L. If you	V.L. If you selected OTHER, please enter the following:		
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></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Julian Headend	1	1	Superior	NA	3.7	65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	3		DH		2.5	65.0 dBi at 4200
						65.0 dBi at 4200

			65.0 dBi at 4200
			65.0 dBi at 4200
4	Patriot	3.7	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
5		3.2	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200

Id	Diameter	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	Height Above Ground	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
1	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0

1	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
1	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
1	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	1189.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	1189.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	1189.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	1189.0	0.0	0.0	0.0	0.0
3	2.5/2.5	4.0	1189.0	0.0	0.0	0.0	0.0
3	2.5/2.5	4.0	1189.0	0.0	0.0	0.0	0.0
3	2.5/2.5	4.0	1189.0	0.0	0.0	0.0	0.0
3	2.5/2.5	4.0	1189.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	1189.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	1189.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	1189.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	1189.0	0.0	0.0	0.0	0.0
<u> </u>							

FREQUENCY

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

1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Service	s (If th	ne complete des	scription does not appear	in this box, please	go to the end of t	he form to view it in its
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Service	s (If th	ne complete des	scription does not appear	in this box, please	go to the end of t	he form to view it in its

1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Service	s (If th	ne complete des	scription does not appear	in this box, please	go to the end of t	he form to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Service	s (If th	ne complete des	scription does not appear	in this box, please	go to the end of t	he form to view it in its

2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulatio entirety.)	n and Servic	es (If the	ne complete d	escription does not appear	in this box, please	go to the end of t	the form to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulatio entirety.)	n and Servic	es (If the	ne complete d	escription does not appear	in this box, please	go to the end of t	the form to view it in its
Video							

3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Servic	es (If the	he complete d	escription does not appear	in this box, please	go to the end of t	the form to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Servic	es (If the	he complete d	escription does not appear	in this box, please	go to the end of t	the form to view it in its
Video							

4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Service	s (If th	ne complete des	cription does not appear	in this box, please	go to the end of t	he form to view it in its
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Service	s (If th	ne complete des	cription does not appear	in this box, please	go to the end of t	he form to view it in its
Video							

4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Service	es (If th	he complete de	scription does not appear	in this box, please	go to the end of t	the form to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Service	es (If th	he complete de	scription does not appear	in this box, please	go to the end of t	he form to view it in its
Video							

5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	the end of the form	to view it in its

FREQUENCY COORDINATION

		Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station Azimuth Angle	Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
2	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
3	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
4	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
5	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number			
NOTE: Please enter the callsign of the contro callsign for which this application is being filed.				
E62. Street Address				
E63. City	E67. County		E64/68. State/Country	E66. Zip Code

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: Julian Headend E5. Call Sign:

E2: Contact Name Barry Kisselman E6. Phone 303–918–5251

Number:

E3. Street: 3218 Pine Hills E7. City: Julian

Crest Dr

E8. County: San Diego

E4. State CA E9. Zip Code 92036

E10. Area of Operation: Julian, CA

E11. Latitude: 33 °4 '14.38 "N

E12. Longitude: 116 °37 '5.04 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 1189.0 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.		les .	O No	O 1	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?	0,	les .	O No	• 1	N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	0	Yes	•	, No	
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	•	. No	
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	•	, 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.		Yes	•	. No	
POINTS OF COMMUNICATION					
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTHER, please enter the following:					

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If y	ou selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	R, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTH	ER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
	•
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	cted OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:GALAXY 17 (S2715) GALAXY 17 91 W.L. If	you selected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
C-(-11'4- NCEC 11 (C20(4) CEC 11 104.05 If14-	1 OTHER where we do full and the			
	d OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHI	ER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTF	HER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name: GALAXY 18 GALAXY 18 123 W.L. If you sel	ected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If	you selected OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	d OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-1 SES-1 101.0 W.L. If you selected OTHE	ER, please enter the following:
· · · · · ·	· · · · · · · · · · · · · · · · · · ·
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC 10 AMC 10 135 W.L. If you selected OTF	HER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 18 GALAXY 18 123 W.L. If you sele	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: GALAXY 17 (S2715) GALAXY 17 91 W.L. If	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SES-11 (S2964) SES-11 104.95 If you selected	d OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:SES-1 SES-1 101.0 W.L. If you	selected OTHER, please enter the following:
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></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Julian Headend	1	1	Superior	NA	3.7	65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
						65.0 dBi at 4200
	3		DH		2.5	65.0 dBi at 4200
						65.0 dBi at 4200

			65.0 dBi at 4200
			65.0 dBi at 4200
4	Patriot	3.7	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
5		3.2	65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200
			65.0 dBi at 4200

Id	Diameter	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	Height Above Ground	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
1	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0

1	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
1	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
1	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	1189.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	1189.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	1189.0	0.0	0.0	0.0	0.0
2	4.6/4.6	4.0	1189.0	0.0	0.0	0.0	0.0
3	2.5/2.5	4.0	1189.0	0.0	0.0	0.0	0.0
3	2.5/2.5	4.0	1189.0	0.0	0.0	0.0	0.0
3	2.5/2.5	4.0	1189.0	0.0	0.0	0.0	0.0
3	2.5/2.5	4.0	1189.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
4	3.7/3.7	4.0	1189.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	1189.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	1189.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	1189.0	0.0	0.0	0.0	0.0
5	3.2/3.2	4.0	1189.0	0.0	0.0	0.0	0.0

FREQUENCY

E43/44. Frequency Bands				E48. Maximum EIRP per Carrier	E49. Maximum ERIP Density per
(MHz)		L,R)	2 congruetor	(dBW)	Carrier Carrier
					(dBW/4kHz)

1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Servic	es (If t	he complete desc	ription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	Tand Servic		ne complete desc	Inputori does not appear	in this box, please	go to the cha of	the form to view it in its
1	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	n and Servic	es (If t	he complete desc	ription does not appear	in this box, please	go to the end of	the form to view it in its
Video							

1		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulatio rety.)	n and Service	es (If t	he complete descript	ion does not appear in	n this box, please go	to the end of the form	to view it in its
	Video							
2		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulatio rety.)	n and Service	es (If t	he complete descript	ion does not appear in	n this box, please go	to the end of the form	to view it in its
	Video							
2		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulatio rety.)	n and Service	es (If t	he complete descript	ion does not appear in	n this box, please go	to the end of the form	to view it in its
	Video							

2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modentirety.)	dulation and Servi	ces (If t	the complete	e description does not appear	in this box, please	go to the end of t	the form to view it in its
Video							
2	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	dulation and Servi	ces (If t	the complete	e description does not appear	in this box, please	go to the end of t	the form to view it in its
Video							
3	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Mod entirety.)	dulation and Servi	ces (If t	the complete	e description does not appear	in this box, please	go to the end of t	the form to view it in its
Video							

3		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulation	on and Servi	ces (If t	the comp	plete description does not appear	r in this box, please	go to the end of	the form to view it in its
	Video							
3		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulation	on and Servi	ces (If t	the comp	plete description does not appear	r in this box, please	go to the end of	the form to view it in its
	Video							
3		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulation	on and Servi	ces (If t	the comp	plete description does not appear	r in this box, please	go to the end of	the form to view it in its
	Video							

4		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulatio	on and Servi	ces (If t	the comj	plete description does not appea	r in this box, please	go to the end of	the form to view it in its
	Video							
4		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulationirety.)	on and Servi	ces (If t	the comp	plete description does not appea	r in this box, please	go to the end of	the form to view it in its
	Video							
4		3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
	E50. Modulatio	on and Servi	ces (If t	the comj	plete description does not appea	r in this box, please	go to the end of	the form to view it in its
	Video							

4	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	on and Service	es (If t	he complete de	scription does not appear	in this box, please	go to the end of	the form to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	on and Service	es (If the	he complete de	scription does not appear	in this box, please	go to the end of	the form to view it in its
Video							

5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Video							
5	3700	4200	R	Horizontal and Vertical	36MOG7D	0.0	0.0
E50. Modulation entirety.) Video	and Services	(If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its

FREQUENCY COORDINATION

		Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station Azimuth Angle	Antenna Elevation Angle Eastern Limit	Station Azimuth Angle		E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
2	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
3	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
4	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
5	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0
	Geostationary	3700 4200	40.0/ 135.0	154.0	50.61	227.0	25.5	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E65. Phone Number		
NOTE: Please enter the callsign of the contro callsign for which this application is being filed.				
E62. Street Address				
E63. City	E67. County		E64/68. State/Country	E66. Zip Code

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 0.25-24 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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