Approved by OMB 3060–0678

Date & Time Filed: Jun 1 2012 9:32:02:353AM File Number: SES–MOD–INTR2012–01345

FCC APPLICATIC	IN FOR SPACE AND EARTH STATI	ON:MOD OR AMD – MA	AIN FORM FCC Use Only
	FCC 312 MAIN FORM FOR OFFIC	CIAL USE ONLY	
APPLICANT INFO	ΟΜΑΤΙΩΝ		
	f this application to identify it on the	ne main menu:	
E871192 Modificatio			
1–8. Legal Name of Ap	oplicant		
Name:	California State University, Chico	Phone Number:	530-898-6112
DBA Name:		Fax Number:	530-898-5369
Street:	West First & Normal Sts.	E-Mail:	
City:	Chico	State:	CA
Country:	USA	Zipcode:	95929 –
Attention:	Academic Technologies – Mike Magrey		

9–16. Name of Con	tact Representative			
Name:	Barry S. Persh		Phone Number:	2027762000
Compa	<b>ny:</b> Dow Lohnes pllc		Fax Number:	2027762222
Street:	1200 New Hamps	hire Ave., NW	E–Mail:	bpersh@dowlohnes.com
	Suite 800			
City:	Washington		State:	DC
Countr	y: USA		Zipcode:	20036-
Attentio	tention:		<b>Relationship:</b>	Legal Counsel
CLASSIFICATIO	N OF FILING			
	pplies to this filing for nd b. Choose only one ne for 17b.	<ul> <li>(N/A) b2. App</li> <li>b3. Amen</li> <li>b4. Modif</li> <li>b5. Assignmen</li> <li>b6. Transfer of</li> <li>b7. Notific</li> <li>(N/A) b8. App</li> <li>Satellite</li> <li>(N/A) b9. Lett</li> <li>States</li> <li>(N/A) b10. Ot</li> <li>(N/A) b11. A</li> <li>to Provide the</li> </ul>	dment to a Pending Applica ication of License or Regist at of License or Registration of Control of License or Registration of Minor Modification of Minor Modification of Intent to Use Non–U.S her (Please specify) Application for Earth Station	New Domestic Receive–Only Station tion ration stration n Receive–Only Station Using Non–U.S. Licensed S. Licensed Satellite to Provide Service in the United n to Access a Non–U.S.satellite Not Currently Authorized posed Frequencies in the United States

• b13. Amendment to a Pending Database Entry Application

**o** b14. Modification of Database Entry

17c. Is a fee submitted with this application? If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).								
<ul> <li>Governmental Entity</li> <li>Noncommercial educational licensee</li> </ul>								
• Other(please explain):								
17d.								
Fee Classification								
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending modification please enter only the file number:	•••						
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:						
E871192		SESRWL2008060900728						

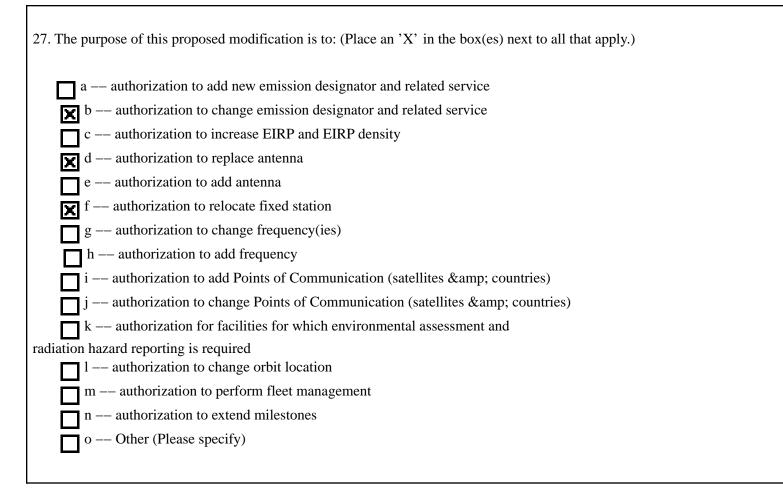
## TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provid	e 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.	Substantial Station approximation and the approximation of the station of the sta
Common Carrier 💿 Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
• Connected to a Public Switched Network • Not connected to a	Public Switched Network O N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all a	applicable frequency band(s).
a. C–Band (4/6 GHz) k. Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: Frequency Upper: (Please specify addition	onal frequencies in an attachment)

## 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
o c. 12/14 GHz VSAT Network
O d. Mobile Earth Station
• e. Geostationary Space Station
• f. Non–Geostationary Space Station
• g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY:
Transmit/Receive Transmit–Only Receive–Only N/A
"For Space Station applications, select N/A."

#### PURPOSE OF MODIFICATION



## 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.	-	● Yes ● No RF Analysis							
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.									
29. Is the applicant a foreign government or the representative of any foreign government?					1				
30. Is the applicant an alien or the representative of an alien?				No	0	N/A			
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	۲	No	0	N/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?	0	Yes	۲	No	0	N/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?

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.	O Yes	le 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.	O 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.	• Yes	O 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.

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.



• Yes

O No

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Authorization to modify an existing Ku-band fixed satellite earth station used for occasional transmission and reception of video carriers for educational purposes; removing the existing antenna located on the ground and replacing it with a smaller antenna located on the roof-top of a nearby building, changing emission designators and power densities

Power Density Calc.

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.	<b>O</b> 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.	● <sup>B</sup>
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.	<b>O</b> 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.

44. Applicant is a (an): (Choose the button next to applicable response.)	
O Individual	
O Unincorporated Association	
• Partnership	
• Corporation	
Governmental Entity	
Other (please specify)	
45. Name of Person Signing	46. Title of Person Signing
Michael Schilling	Chief Information Officer
>	
	ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT EVOCATION OF ANY STATION AUTHORIZATION FORFEITURE (U.S. Code, Title 47, Section 503).

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

Location of Earth St	tation Site					
E1: Site Identifier:	1	E5. Call Sign:	E871192			
E2: Contact Name	Mike Magrey	E6. Phone Number:	530-898-6112			
E3. Street:	West First and Warner Streets	E7. City:	Chico			
		E8. County:	Butte			
E4. State	CA	E9. Zip Code	95926			
E10. Area of Opera	tion:	_				
E11. Latitude:	39 °43 '40.0 "N					
E12. Longitude:	121 °50 '47.0 "W					
E13. Lat/Lon Coord	linates are:	O NAD−27	NAD-83	O N/A		
E14. Site Elevation	(AMSL):	59.1 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 ○ No	O <sup>N/A</sup>
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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 <sup>Yes</sup>	O <sup>No</sup>	● <sup>N/A</sup>
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	۲	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	۲	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	۲	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.	0	Yes	۲	No

POINTS OF COMMUNICATION

Satellite Name: ALSAT   ALL AUTHORIZED U.S.   ALSAT 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 Gain Transmint and/or Recieve (dBi at GHz)
1	1	1	Andrew	ES37	3.7	51.6 dBi at 11.95
1	1	1	Andrew	ES37	3.7	53.0 dBi at 14.50

Id	Diameter			Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
1	3.7/3.7	21.2	80.3	16.2	79.4	5.0	71.3

## FREQUENCY

E	E43/44. Frequency Bands (MHz)				EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1	11700.0000 12200.0000	R	Horizontal and Vertical	4M50G1F	0.0	0.0

tirety.)						
NULL						
	11700.0000 12200.0000	R	Horizontal and Vertical	6M00G1F	0.0	0.0
		If the complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
rety.)						
NULL						
	11700.0000	R	Horizontal and	9M00G1F		10.0
	11700.0000 12200.0000	R	Horizontal and Vertical	9M00G1F	0.0	0.0
	12200.0000		Vertical			
E50. Mod	12200.0000					
E50. Moo	12200.0000		Vertical			
E50. Moo irety.)	12200.0000		Vertical			
E50. Moo irety.)	12200.0000		Vertical			
E50. Moo irety.)	12200.0000		Vertical			
E50. Moo tirety.)	12200.0000		Vertical			
E50. Moo ntirety.)	12200.0000		Vertical			

E50. Modu entirety.)	ulation and Services (l	f the complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
Mediur	n Rate SCPC QPSK	Digital Vid	eo			
1	14000.0000 14500.0000	Т	Horizontal and Vertical	6M00G1F	69.4	38.8
entirety.)	ulation and Services (I		escription does not appear	in this box, please	go to the end of t	he form to view it in its
1	14000.0000 14500.0000	Т	Horizontal and Vertical	9M00G1F	71.3	38.9
entirety.)	ulation and Services (In Rate SCPC QPSK		eo	in this box, please	go to the end of t	he form to view it in its

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	Frequency	Range of Satellite Arc Eastern/West	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	Antenna Elevation Angle Western	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	14000.0000 14500.0000	67.0/143.0	114.2	18.0	211.2	39.1	-16.5

# REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number			
NOTE: Please enter the callsign of the contro callsign for which this application is being filed.				
E62. Street Address				
E63. City	E68. County		E67/68. State/Country /	E64. Zip Code

#### FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 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.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060–0678.

# THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

#### 43. Description. (Summarize the nature of the application and the services to be provided).

Authorization to modify an existing Ku-band fixed satellite earth station used for occasional transmission and reception of video carriers for educational purposes; removing the existing antenna located on the ground and replacing it with a smaller antenna located on the roof-top of a nearby building, changing emission designators and power densities for medium rate MPEG SCPC digital video at selected data rates.