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Submitted: 07/25/2019 at 17:36:11
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FCC 601 Main Form

FCC Application for Radio Service Authorization: Wireless Telecommunications Bureau Public Safety and Homeland Security Bureau

Approved by OMB
3060 - 0798
See instructions for
public burden estimate

1) Radio Service Code: MG	1a) Existing Radio Service Code:
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General Information

2) (Select only one) (RO) NE - New RO - Renewal Only AU - Administrative Update NT - Required Notifications MD - Modification RM - Renewal/Modification WD - Withdrawal of Application EX - Requests for Extension of Time AM - Amendment CA - Cancellation of License DU - Duplicate License RL - Registered Location/Link	
3a) If this application is for a <u>D</u> evelopmental License, <u>D</u> emonstration License, or a <u>S</u> pecial Temporary Authorization (STA), enter the code and attach the required exhibit as described in the instructions. Otherwise enter ' <u>N</u> ' (Not Applicable).	(N) <u>D</u> <u>M</u> <u>S</u> <u>N/A</u>
3b) If this application is for Special Temporary Authority due to an emergency situation, enter 'Y'; otherwise enter 'N'. Refer to Rule 1.915 for an explanation of situations considered to be an emergency.	() <u>Yes</u> <u>No</u>
4) If this application is for an Amendment or Withdrawal, enter the file number of the pending application currently on file with the FCC.	File Number
5) If this application is for a Modification, Renewal Only, Renewal/Modification, Cancellation of License, Duplicate License, or Administrative Update, enter the call sign of the existing FCC license. If this is a request for Registered Location/Link, enter the FCC call sign assigned to the geographic license.	Call Sign WQKW254
6) If this application is for a New, Amendment, Renewal Only, or Renewal/Modification, enter the requested authorization expiration date (this item is optional).	MM DD ____ / ____
7) Is this application "major" as defined in §1.929 of the Commission's Rules when read in conjunction with the applicable radio service rules found in Parts 22 and 90 of the Commission's Rules? (NOTE: This question only applies to certain site-specific applications. See the instructions for applicability and full text of §1.929).	() <u>Yes</u> <u>No</u>
8) Are attachments (other than associated schedules) being filed with this application?	(N) <u>Yes</u> <u>No</u>

Fees, Waivers, and Exemptions

9) Is the Applicant exempt from FCC application fees?	(N) <u>Yes</u> <u>No</u>
10) Is the Applicant exempt from FCC regulatory fees?	(N) <u>Yes</u> <u>No</u>
11a) Does this application include a request for a Waiver of the Commission's Rule(s)? If 'Yes', attach an exhibit providing rule number(s) and explaining circumstances.	(N) <u>Yes</u> <u>No</u>
11b) If 11a is 'Y', enter the number of rule sections involved.	Number of Rule Section(s):
12) Are the frequencies or parameters requested in this filing covered by grandfathered privileges, previously approved by waiver, or functionally integrated with an existing station?	() <u>Yes</u> <u>No</u>

Applicant Information

13) FCC Registration Number (FRN): 0001635101			
14) Applicant/Licensee Legal Entity Type: (Select One) ☐ Individual ☐ Unincorporated Association ☐ Trust ☐ Government Entity ☒ Corporation ☐ Limited Liability Company ☐ General Partnership ☐ Limited Partnership ☐ Limited Liability Partnership ☐ Consortium ☐ Other:			
15) If the Licensee name is being updated, is the update a result from the sale (or transfer of control) of the license(s) to another party and for which proper Commission approval has not been received or proper notification not provided?			() <u>Yes</u> No
16) First Name (if individual):	MI:	Last Name:	Suffix:
17) Legal Entity Name (if other than individual): MONTEREY BAY AQUARIUM RESEARCH INSTITUTE			
18) Attention To: Craig Okuda			
19) P.O. Box:	And/Or	20) Street Address: 7700 Sandholdt Road	
21) City: Moss Landing	22) State: CA	23) Zip Code: 95039	
24) Telephone Number: (831)775-1931		25) FAX: (831)775-1652	
26) E-Mail Address: craig@mbari.org			

27) Demographics (Optional):

Race: ☐ American Indian or Alaska Native ☐ Asian ☐ Black or African-American ☐ Native Hawaiian or Other Pacific Islander ☐ White	Ethnicity: ☐ Hispanic or Latino ☐ Not Hispanic or Latino	Gender: ☐ Male ☐ Female
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Real Party in Interest

28) Name of Real Party in Interest of Applicant (If different from Applicant):	29) FCC Registration Number (FRN) of Real Party in Interest:
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Contact Information (If different from the Applicant)**() Check here if same as Applicant.**

30) First Name:	MI:	Last Name:	Suffix:
31) Company Name:			
32) Attention To:			
33) P.O. Box:	And /Or	34) Street Address:	
35) City:	36) State:	37) Zip Code:	
38) Telephone Number:		39) FAX:	
40) E-Mail Address:			

Regulatory Status

41) This filing is for authorization to provide or use the following type(s) of radio service offering (enter all that apply):			
☐ C ommon Carrier	☐ N on-Common Carrier	☐ P rivate, internal communications	☐ B roadcast Services ☐ B and Manager

Type of Radio Service

42) This filing is for authorization to provide the following type(s) of radio service (choose all that apply):

(☒) Fixed (☐) Mobile (☐) Radiolocation (☐) Satellite (sound) (☐) Broadcast Services43) Does the Applicant propose to provide service interconnected to the public telephone network? (☐) Yes ☒ No**Alien Ownership Questions (If any answer is "Y", provide an attachment explaining the circumstances. In preparing the attachment, refer to the Main Form Instructions for the "Alien Ownership Questions".)**44) Is the Applicant a foreign government or the representative of any foreign government? (☐) Yes ☒ No45) Is the Applicant an alien or the representative of an alien? (☐) Yes ☒ No46) Is the Applicant a corporation organized under the laws of any foreign government? (☐) Yes ☒ No47) 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? (☐) Yes ☒ No48a) Is the Applicant 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 or their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? (☐) Yes ☒ No

48b) If the answer to 47 or 48a is 'Y' select one of the choices below.

☐ The Applicant is exempt from the provisions of Section 310(b).*It is not necessary to file a petition for declaratory ruling if the Applicant includes in the attachment required by Item 47 or Item 48a a showing that the requested license(s) is exempt from the provisions of Section 310(b).*☐ The Applicant has received a declaratory ruling(s) approving its foreign ownership, and the application involves only the acquisition of additional spectrum for the provision of a wireless service in a geographic coverage area for which the Applicant has been previously authorized.*If checked, include in the attachment required by Item 47 or Item 48a the citation(s) of the applicable declaratory ruling(s) by DA/FCC number, the FCC Record citation, if available, release date, and a statement that there has been no change in the foreign ownership of the Applicant since the issuance of its ruling.*☐ The Applicant: (i) has received a declaratory ruling(s) approving its foreign ownership, but is not able to make the certification specified immediately above; or (ii) is an "affiliate" of a Licensee or Lessee/Sublessee that received a declaratory ruling(s) under 47 CFR § 1.990(a) and is relying on the affiliate's ruling for purposes of filing this application as permitted under the affiliate's ruling and 47 CFR § 1.994(b).*If checked, and if the Applicant received its declaratory ruling(s) on or after August 9, 2013, include in the attachment required by Item 47 or Item 48a the citation(s) of the Applicant's declaratory ruling(s) by DA/FCC number, the FCC Record citation, if available, release date, and a statement that the Applicant is in compliance with the terms and conditions of its ruling and with the Commission's Rules.**If checked, and if the Applicant received its declaratory ruling(s) prior to August 9, 2013, include in the attachment required by Item 48a a copy of a petition for declaratory ruling filed contemporaneously with the Commission to extend the Applicant's existing ruling(s) to cover the same radio service(s) and geographic coverage area(s) involved in the application. Alternatively, the Applicant may request a new declaratory ruling pursuant to Section 1.990(a) of the Commission's Rules, 47 CFR § 1.990(a). Petitions for declaratory ruling may be filed electronically on the Internet through the International Bureau Filing System (IBFS) (with a copy attached hereto).**If checked, and if the Applicant is relying on an affiliate's ruling for purposes of filing this application, include in the attachment required by Item 47 or Item 48a the citation(s) of the applicable declaratory ruling(s) by DA/FCC number, the FCC Record citation, if available, release date, and a statement that the Applicant is in compliance with the terms and conditions of the named affiliate's ruling and with the Commission's Rules. The Applicant must also include a certification of compliance signed by the named affiliate or other qualified entity as specified in 47 CFR § 1.994(b). See Main Form Instructions for Items 47 or 48a, as applicable.*☐ The Applicant has not received a declaratory ruling approving its foreign ownership and is requesting a declaratory ruling under 47 CFR § 1.990(a) in a petition filed contemporaneously with the Commission.*If checked, include in the attachment required by Item 47 or 48a a copy of the petition for declaratory ruling filed contemporaneously with the Commission pursuant to 47 CFR § 1.990(a). Petitions for declaratory ruling may be filed electronically on the Internet through the International Bureau Filing System (IBFS) (with a copy attached hereto).*

Basic Qualification Questions

49) Has the Applicant or any party to this application had any FCC station authorization, license or construction permit revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission?	() <u>Yes</u> <u>No</u>
50) Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court?	() <u>Yes</u> <u>No</u>
51) Has any court finally adjudged the Applicant or any party 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?	() <u>Yes</u> <u>No</u>

If the answer to any of 49-51 is 'Y', attach an exhibit explaining the circumstances.

Aeronautical Advisory Station (Unicom) Certification

52) () I certify that the station will be located on property of the airport to be served, and, in cases where the airport does not have a control tower, RCO, or FAA flight service station, that I have notified the owner of the airport and all aviation service organizations located at the airport within ten days prior to application.
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Broadband Radio Service and Educational Broadband Service Cable Cross-Ownership

53a) Will the requested facilities be used to provide multichannel video programming service?	() <u>Yes</u> <u>No</u>
53b) If the answer to question 53a is 'Y', does the Applicant operate, control or have an attributable interest (as defined in 47 CFR § 27.1202) in a cable television system whose franchise area is located within the geographic service area of the requested facilities?	() <u>Yes</u> <u>No</u>

Note: If the answer to question 53b is 'Y', attach an exhibit explaining how the Applicant complies with 47 CFR § 27.1202 or justifying a waiver of that rule. If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.

Broadband Radio Service and Educational Broadband Service (Part 27)

54) (For EBS only) Does the Applicant comply with the programming requirements contained in 47 CFR § 27.1203?	() <u>Yes</u> <u>No</u>
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Note: If the answer to item 54 is 'N', attach an exhibit explaining how the Applicant complies with 47 CFR § 27.1203 of the Commission's Rules or justifying a waiver of that rule. If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.

55) (For BRS and EBS) Does the Applicant comply with 47 CFR §§ 27.50, 27.55, and 27.1221?	() <u>Yes</u> <u>No</u>
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Note: If the answer to item 55 is 'N', attach an exhibit justifying a waiver of that rule(s). If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.

For Applicants Who Participated in an Auction

56) Is the Applicant a qualifying rural wireless partnership or a member of a qualifying rural wireless partnership?	() <u>Yes</u> <u>No</u>
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Note: If the answer to item 56 is 'Y', attach an exhibit listing all members of the qualifying rural wireless partnership, including their FRN numbers.

General Certification Statements

1) 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.
2) The Applicant certifies that grant of this application would not cause the Applicant to be in violation of any pertinent cross-ownership or attribution rules.* *If the Applicant has sought a waiver of any such rule in connection with this application, it may make this certification subject to the outcome of the waiver request.
3) The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.
4) The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to § 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under § 1.2002(c) of the rules, 47 CFR § 1.2002(c). See 47 CFR § 1.2002(b) for the definition of "party to the application" as used in this certification.
5) The Applicant certifies that it either (1) has current required ownership data on file with the Commission, (2) is filing updated ownership data simultaneously with this application, or (3) is not required to file ownership data under the Commission's Rules.
6) The Applicant certifies that the facilities, operations, and transmitters for which this authorization is hereby requested are either: (1) categorically excluded from routine environmental evaluation for RF exposure as set forth in 47 CFR § 1.1307(b); or, (2) have been found not to cause human exposure to levels of radiofrequency radiation in excess of the limits specified in 47 CFR §§ 1.1310 and 2.1093; or, (3) are the subject of one or more Environmental Assessments filed with the Commission.
7) The Applicant certifies that it has reviewed the appropriate Commission Rules defining eligibility to hold the requested license(s), and is eligible to hold the requested license(s).
8) The Applicant certifies that it is not in default on any payment for Commission licenses and that it is not delinquent on any non-tax debt owed to any federal agency.
9) The Applicant certifies that the Applicant and all of the related individuals and entities required to be disclosed on this application and FCC Form 602 (FCC Ownership Disclosure Information for the Wireless Telecommunications Services) are not person(s) who have been, for reasons of national security, barred by any agency of the Federal Government from bidding on a contract, participating in an auction, or receiving a grant. This certification applies only to applications for licenses for spectrum that is required by Sections 6103, 6401-6403 of the Middle Class Tax Relief and Job Creation Act of 2012, codified at 47 U.S.C. §§ 309, 1413, 1451-1452, to be assigned by a system of competitive bidding under 47 U.S.C. § 309(j).

Signature

57) Typed or Printed Name of Party Authorized to Sign

First Name: Craig	MI:	Last Name: Okuda	Suffix:
58) Title: Engineer			
Signature: Craig Okuda			59) Date: 07/25/2019
FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.			
Upon grant of this license application, the Licensee may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in termination of the license. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of license requested in this application.			
WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, § 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, § 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, § 503).			

**Technical Data Schedule for the
Fixed Microwave and Microwave Broadcast Auxiliary Services
(Parts 101 and 74)**

Administrative Information

1) Is this application being filed as part of a pack? () <u>Yes</u> <u>No</u>		
2a) If the answer to Item 1 is 'Yes', enter the pack identification number (required if the pack identification number has already been assigned by the FCC):		
2b) Pack Name:		
3) Type of Operation (refer to instructions) Check One Only: (☒) Permanent Fixed Point to Point () Multiple Address System (MAS) () Temporary Fixed/Mobile () Digital Electronic Message Service (DEMS)	() 18 GHz Low Power () 31 GHz () 38 GHz	4) Station Class: FXO
5) DEMS only: SMSA:		
6) If this request is for a Modification, Renewal/Modification, or Amendment of a currently pending application, does it, along with all minor Modification or Amendment requests filed since you applied for a new authorization or since the last major action was granted by the Commission, produce a cumulative effect that would equal or exceed the criteria for a major filing? () <u>Yes</u> <u>No</u>		
7) Has frequency coordination been completed for this application? () <u>Yes</u> <u>No</u>		

Frequency Coordinator Information

Complete Items 8 through 11 if not self-coordinated

8) Frequency Coordination Number	9) Name of Frequency Coordinator	10) Telephone Number	11) Coordination Date

Broadcast Auxiliary Only

If there is an associated Parent Station, provide:	12a) Facility Id of Parent Station:	12b) Radio Service of Parent Station:	12c) City and State of Parent Station Principal Community:
If there is no associated parent station, applicant certifies that it is a Broadcast Network Entity and completes Item 13.			13) State of Primary Operation:

Control Point (Technical Point of Contact)

14) Action A/M	15) Location Street Address, City or Town, County/Borough/Parish, State	16) Telephone Number

Location Data

1) Action Requested: () <u>Add</u> <u>Mod</u> <u>Del</u>		2) Location Number:	
3) Location Description:		4) Area of Operation Code:	5) Location Name:
6) FCC Antenna Structure Registration Number, FCC 854 File Number or N/A:			
7) Latitude (DD-MM-SS.S): NAD83 () <u>N</u> or <u>S</u>		8) Longitude (DDD-MM-SS.S): NAD83 () <u>E</u> or <u>W</u>	
9) Street Address, Name of Landing Area, or Other Location Description:			
10) City:	11) State:	12) County/Borough/Parish:	
13) Elevation of Site AMSL (meters) (‘a’ in antenna structure example):	14) Overall Ht AGL Without Appurtenances (meters) (‘b’ in antenna structure example):	15) Overall Ht AGL With Appurtenances (meters) (‘c’ in antenna structure example):	
16) Support Structure Type:			
17) Radius (km):			
18) Maximum Latitude (DD-MM-SS.S): Use for rectangle only (Northwest corner) NAD83 () <u>N</u> or <u>S</u>		19) Maximum Longitude (DDD-MM-SS.S): Use for rectangle only (Northwest corner) NAD83 () <u>E</u> or <u>W</u>	
20) Do you propose to operate in an area that requires frequency coordination with Canada? () <u>Yes</u> <u>No</u>			
21) Description: (only for Area of Operation Code ‘O’)			
22) Would Commission grant of Authorization for this location be an action which may have a significant environmental effect? See Section 1.1307 of 47 CFR. If ‘Yes’, submit an environmental assessment as required by 47 CFR, Sections 1.1308 and 1.1311. () <u>Yes</u> <u>No</u>			
23a) If the site is located in one of the Quiet Zones listed in Item 23b of the Instructions, provide the date (mm/dd/yyyy) that the proper Quiet Zone entity was notified: ____/____/____			
23b) Has the Applicant obtained prior written consent from the proper Quiet Zone entity for the same technical parameters that are specified in this application? () <u>Yes</u> <u>No</u>			
24) Do you propose to operate in an area that requires frequency coordination with Mexico? () <u>Yes</u> <u>No</u>			

**FCC 601
Schedule I
Supplement 2
Transmit Location**

Path Data

1) Transmit location name:		2) Path number:	
3) Action Requested: () <u>A</u> dd New Path <u>M</u> odify Existing Path <u>D</u> elete Existing Path			
4a) For MAS or DEMS only, MAS or DEMS Sub-Type of Operation (Enter only one per path): MAS or DEMS () Fixed Two-way Master-Remote/Nodal-User () Multiple Two-way Master-Remote/Nodal-User MAS ONLY () Fixed One-way Outbound Master () Multiple One-way Outbound Master () Fixed One-way Inbound Master () Mobile Master			4b) Path code (Enter only one per path): MAS () Master to Remote () Remote to Master DEMS () Nodal to User () User to Nodal

Transmit Antenna

5) Antenna Manufacturer:		6) Antenna Model Number:	
7) Height to Center of Antenna AGL (meters):	8) Beamwidth (degrees):	9) Antenna Gain (dBi):	
10) Diversity Antenna Height AGL (meters):	11) Diversity Beamwidth (degrees):	12) Diversity Antenna Gain (dBi):	
13) Elevation (Tilt) Angle (degrees):	14) Polarization:	15) Azimuth to RX Location or Passive Repeater (degrees):	
16) Periscope Reflector Dimensions (meters): Height: Width:		17) Periscope Reflector Separation (meters):	
18) If the final receiver is located outside of the United States, enter the country in the space provided and attach an exhibit explaining circumstances.			
19) Does this path include passive repeater? () <u>Y</u> es <u>N</u> o			
20) Does this filing add or modify emanations in the 5925 - 7075 MHz band pointing within 2 degrees of the Geostationary Satellite Arc with EIRP greater than 65 dBm, or in the 12700 - 13250 MHz band pointing within 1.5 degrees of the Geostationary Satellite Arc with EIRP greater than 75 dBm? () <u>Y</u> es <u>N</u> o If 'Yes', answer the following questions below and attach waiver request explaining circumstances.			
20a) Angular Separation between main beam and Geostationary Satellite Arc (degrees). Include Orbital Calculations in the wavier exhibit. _____			
20b) Does the Applicant certify that there is no alternative to the proposed transmission path? () <u>Y</u> es <u>N</u> o			
20c) Does the Applicant certify that the proposed operation will not cause interference to an authorized satellite system? () <u>Y</u> es <u>N</u> o			

Final Receiver

21) Receiver Location Name:		
22) Receiver antenna manufacturer:		23) Receiver antenna model number:
24) Receiver Call Sign:		
25) Height to Center of RX Antenna AGL (meters):	26) RX Antenna Beamwidth (degrees):	27) RX Antenna Gain (dBi):
28) Diversity RX Antenna Height AGL (meters):	29) Diversity RX Antenna Beamwidth (degrees):	30) Diversity RX Antenna Gain (dBi):
31) RX Periscope Reflector Dimensions (meters): Height: Width:		32) RX Periscope Reflector Separation (meters):

Passive Repeaters (PR)

Transmit Location

1) Transmit Location Name:	2) Path Number:
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3) Action Requested: () <u>A</u> dd New Passive Repeater <u>M</u> odify Existing Passive Repeater <u>D</u> ele t e Existing Passive Repeater
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Passive Repeater Information

4) Passive Repeater Id: ()		5) Passive Repeater Sequence Number: ()	
6) Passive Repeater Location Name:			
7) Passive Repeater Antenna Manufacturer:		8) Passive Repeater Antenna Model Number:	
9) Height to Center of Passive Repeater Antenna AGL (meters):	10) Back-to-Back RX Dish Gain (dBi):	11) Back-to-Back TX Dish Gain (dBi):	
12) Reflector Dimensions (meters): Height: Width:	13) Transmit Polarization:	14) Azimuth to RX Location or Next Passive Repeater:	

Supplement 4

Frequency Data

Transmitter Location Information

1) Transmit Location Name:	2) Path Number:
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Frequency Information

3) Action A/M/D	4) Lower or Center Frequency (MHZ)	5) Upper Frequency (MHZ)	6) Tolerance (%)	7) EIRP (dBm)	8) Emission Designator	9) Baseband Digital Rate (kbps)	10) Digital Modulation Type
	Existing (if mod)						
	New						
	11) Transmitter Manufacturer		12) Transmitter Model	13) Automatic Transmitter Power Control			