

Federal Communications Commission Washington, D.C. 20554  <b>FCC 340</b>	Approved by OMB 3060-0029 (July 2011)  FOR FCC USE ONLY
<b>APPLICATION FOR CONSTRUCTION PERMIT          FOR RESERVED CHANNEL          NONCOMMERCIAL EDUCATIONAL BROADCAST          STATION</b>  Read INSTRUCTIONS Before Filling Out Form	FOR COMMISSION USE ONLY FILE NO. BMPED - 20120301ADJ

**Section I - General Information**

1. Legal Name of the Licensee/Permittee THE CURATORS OF THE UNIVERSITY OF MISSOURI								
Mailing Address 1105 CARRIE FRANCKE DRIVE								
<table border="1"> <tr> <td>City COLUMBIA</td> <td>State or Country (if foreign address) MO</td> <td>Zip Code 65211 -</td> </tr> </table>	City COLUMBIA	State or Country (if foreign address) MO	Zip Code 65211 -					
City COLUMBIA	State or Country (if foreign address) MO	Zip Code 65211 -						
<table border="1"> <tr> <td>Telephone Number (include area code) 5738825768</td> <td>E-Mail Address (if available)</td> </tr> </table>	Telephone Number (include area code) 5738825768	E-Mail Address (if available)						
Telephone Number (include area code) 5738825768	E-Mail Address (if available)							
<table border="1"> <tr> <td>FCC Registration Number: 0002511491</td> <td>Call Sign KMNR</td> <td>Facility Identifier 14740</td> </tr> </table>	FCC Registration Number: 0002511491	Call Sign KMNR	Facility Identifier 14740					
FCC Registration Number: 0002511491	Call Sign KMNR	Facility Identifier 14740						
2. Contact Representative (if other than licensee/Permittee) RICHARD R. ZARAGOZA, ESQ.								
Firm or Company Name PILLSBURY WINTHROP SHAW PITTMAN LLP								
Mailing Address 2300 N STREET, NW								
<table border="1"> <tr> <td>City WASHINGTON</td> <td>State or Country (if foreign address) DC</td> <td>ZIP Code 20037 - 1128</td> </tr> </table>	City WASHINGTON	State or Country (if foreign address) DC	ZIP Code 20037 - 1128					
City WASHINGTON	State or Country (if foreign address) DC	ZIP Code 20037 - 1128						
<table border="1"> <tr> <td>Telephone Number (include area code) 2026638266</td> <td>E-Mail Address (if available) RICHARD.ZARAGOZA@PILLSBURYLAW.COM</td> </tr> </table>	Telephone Number (include area code) 2026638266	E-Mail Address (if available) RICHARD.ZARAGOZA@PILLSBURYLAW.COM						
Telephone Number (include area code) 2026638266	E-Mail Address (if available) RICHARD.ZARAGOZA@PILLSBURYLAW.COM							
3. Is this application being filed in response to a window? If Yes, specify closing date and/or window number:								
<input type="radio"/> Yes <input checked="" type="radio"/> No								
4 <b>Application Purpose</b>  <table border="0"> <tr> <td><input type="radio"/> New station</td> <td><input type="radio"/> Major Modification of construction permit</td> </tr> <tr> <td><input type="radio"/> Major Change in licensed facility</td> <td><input checked="" type="radio"/> Minor Modification of construction permit</td> </tr> <tr> <td><input type="radio"/> Minor Change in licensed facility</td> <td><input type="radio"/> Major Amendment to pending application</td> </tr> <tr> <td></td> <td><input type="radio"/> Minor Amendment to pending application</td> </tr> </table> (a) File number of original construction permit: BPED-20110916ACX  (b) Service Type: <input checked="" type="radio"/> FM <input type="radio"/> TV <input type="radio"/> DTV <input type="radio"/> DTS (c) DTV Type: <input type="radio"/> Pre-Transition <input type="radio"/> Post-Transition <input type="radio"/> Both (d) Community of License: City: ROLLA State: MO (e) Facility Type: <input checked="" type="radio"/> Main <input type="radio"/> Auxiliary	<input type="radio"/> New station	<input type="radio"/> Major Modification of construction permit	<input type="radio"/> Major Change in licensed facility	<input checked="" type="radio"/> Minor Modification of construction permit	<input type="radio"/> Minor Change in licensed facility	<input type="radio"/> Major Amendment to pending application		<input type="radio"/> Minor Amendment to pending application
<input type="radio"/> New station	<input type="radio"/> Major Modification of construction permit							
<input type="radio"/> Major Change in licensed facility	<input checked="" type="radio"/> Minor Modification of construction permit							
<input type="radio"/> Minor Change in licensed facility	<input type="radio"/> Major Amendment to pending application							
	<input type="radio"/> Minor Amendment to pending application							

If an amendment, **submit as an Exhibit** a listing by Section and Question Number the portions of the pending application that are being revised.

[Exhibit 1]

**NOTE: The failure to include an explanatory providing full particulars in connection with a "No" response may result in dismissal of the application. See Instructions, paragraph L for additional information regarding completion of explanatory exhibits.**

## SECTION II - Legal and Financial

1.	<b>Certification.</b> Applicant certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Applicant further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application instructions and worksheets.	<input checked="" type="radio"/> Yes <input type="radio"/> No
2.	<b>Eligibility.</b> Each application must answer "Yes" to one and "No" to two of the three following certifications. An applicant should not submit an explanatory exhibit in connection with these Question 2 "No" responses.  The applicant certifies that it is: a. a nonprofit educational institution; or b. a governmental entity other than a school; or c. a nonprofit educational organization, other than described in a. or b.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> No
3.	For applicants checking "Yes" to question 2(c) and applying for a new noncommercial educational television station only, the applicant certifies that the applicant's officers, directors and members of its governing board are broadly representative of the educational, cultural, and civic segments of the principal community to be served.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
4.	a. The applicant certifies that the Commission has previously granted a broadcast application identified here by file number that found this applicant qualified as a noncommercial educational entity with a qualifying educational program, and that the applicant will use the proposed station to advance a program similar to that the Commission has found qualifying in applicant's previous application.  b. Applicants who answered "No" to Question 4(a), must include an exhibit that describes the applicant's educational objective and how the proposed station will be used to advance an educational program that will further that objective according to 47 C.F.R. Section 73.503 (for radio applicants) and 47 C.F.R. Section 73.621 (for television applicants).	<input type="radio"/> Yes <input type="radio"/> No FCC FileNumber -  [Exhibit 2]
5.	The applicant certifies that its governing documents (e.g., articles of incorporation, by-laws, charter, enabling statute, and/or other pertinent organizational document) permit the applicant to advance an educational program and that there is no provision in any of those documents that would restrict the applicant from advancing an educational program or complying with any Commission rule, policy, or provision of the Communications Act of 1934, as amended.	<input type="radio"/> Yes <input type="radio"/> No
6.	a. <b>Parties to the Application.</b> List separately each party to the application including, as applicable, the applicant, its officers, directors, five percent or greater stockholders, non-insulated partners, members, and all other persons and entities with attributable interests. If another entity hold an attributable interest in the applicant, list separately, as applicable, its officers, directors, five percent or greater stockholders, non-insulated partners, and board members. Create a separate row for each individual or entity. Attach additional pages if necessary.  [Enter Parties/Owners Information]	

	b. Applicant certifies that equity and financial interests not set forth above are non-attributable pursuant to 47 C.F.R. Section 73.3555 and that there are no agreements or understandings with any non-party that would give influence over the applicant's programming, personnel, or finances to that non-party.	<input type="radio"/> Yes <input type="radio"/> No [Exhibit 3]
7.	<b>Other Authorizations.</b> List call signs, locations, and facility identifiers of all other broadcast stations in which applicant or any party to the application has an attributable interest pursuant to the notes to 47 C.F.R. Section 73.3555.	<input type="checkbox"/> N/A [Exhibit 4]
8.	<b>Character Issues.</b> Applicant certifies that neither applicant nor any party to the application has or has had any interest in or connection with: a. any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or b. any pending broadcast application in which character issues have been raised.	<input type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 5]
9.	<b>Adverse Findings.</b> Applicant certifies that, with respect to the applicant, any party to the application, and any non-party equity owner in the applicant, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any law related to any of the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another government unit; or discrimination.  If the answer is "No," attach as an Exhibit a full disclosure concerning the persons and matters involved, including an identification of the the court or administrative body and the proceeding (by dates and file numbers), and a description of the disposition of the matter. Where the requisite information has been earlier disclosed in connection with another application or as required by 47 C.F.R. Section 1.65, the applicant need only provide: (i) an identification of that previous submission by reference to the file number in the case of an application, the call letters of the station regarding which the application or Section 1.65 information was filed, and the date of filing; and (ii) the disposition of the previously reported matter.	<input type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 6]
10.	<b>Alien Ownership and Control.</b> Applicant certifies that it complies with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments.	<input type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 7]
11.	<b>Program Service Certification.</b> Applicant certifies that it is cognizant of and will comply with its obligations as a commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.	<input type="radio"/> Yes <input type="radio"/> No
12.	<b>Local Public Notice.</b> Applicant certifies compliance with the public notice requirements of 47 C.F.R. Section 73.3580.	<input type="radio"/> Yes <input type="radio"/> No
13.	<b>Anti-Drug Abuse Act Certification.</b> Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.	<input checked="" type="radio"/> Yes <input type="radio"/> No
14.	<b>Equal Employment Opportunity (EEO).</b> If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report on FCC Form 396-A.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
<b>QUESTIONS 15, 16 AND 17 APPLY ONLY TO APPLICANTS FOR NEW STATIONS. OTHER APPLICANTS CAN PROCEED TO QUESTION 18.</b>		
15.	<b>Financial.</b> The applicant certifies that sufficient net liquid assets are on hand or that sufficient funds are available from committed sources to construct and operate the requested facilities for three months without revenue.  If "No" to 15., answer question 16. and 17.	<input type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 8]
16.	Is this application contingent upon receipt of a grant from the National Telecommunications and Information Administration?	<input type="radio"/> Yes <input type="radio"/> No



**Section IV Point System Factors - New and Major Change Applications Only** (used to select among mutually exclusive radio and television applications for new stations and major modifications) **NOTE:** Applicants will not receive any additional points for amendments made after the close of the application filing window.

1.	<b>Established Local Applicant:</b> Applicant certifies that for at least the 24 months immediately prior to application, and continuing through the present, it qualifies as a local applicant pursuant to 47 C.F.R. Section 73.7000, that its governing documents require that such localism be maintained, and that it has placed documentation of its qualifications as an established local applicant in a local public inspection file and has submitted to the Commission copies of the documentation.	<input type="radio"/> Yes <input type="radio"/> No
2.	<b>Diversity of Ownership:</b> (a) Applicant certifies that the principal community (city grade) contour of the proposed station does not overlap the principal community contour of any other authorized station (comparing radio and television to television, including non-fill-in translator stations other than those identified in 2(b) below) in which any party to the application has an attributable interest as defined in 47 C.F.R. Section 73.3555, that its governing documents require that such diversity be maintained, and that it has placed documentation of its diversity qualification in a local public inspection file and has submitted to the Commission copies of the documentation.	<input type="radio"/> Yes <input type="radio"/> No
	(b) Is the application's certification to 2(a) based on its exclusion of translator station(s) that will be replaced with a full service station pursuant to the authorization requested here?  If Yes, applicant must include an exhibit identifying the translator station authorization for which it will request cancellation upon commencement of operation of the proposed full service station (i.e., upon its filing of a license application and receipt of program test authority).	<input type="radio"/> Yes <input type="radio"/> No  [Exhibit 14]
3.	<b>State-wide Network:</b> Applicant certifies that (a) it has NOT claimed a credit for diversity of ownership above; (b) it is one of the three specific types of organizations described in 47 C.F.R. Section 73.7003(b)(3); and (c) it has placed documentation of its qualifications in a local public inspection file and has submitted to the Commission copies of the documentation.	<input type="radio"/> Yes <input type="radio"/> No
4.	<b>Technical Parameters:</b> Applicant certifies that the numbers in the boxes below accurately reflect the new area and population that its proposal would serve with a 60 dBu (FM) or Grade B (TV) signal measured in accordance with the standard predicted contours in 47 C.F.R. Section 73.713(c) (FM) and 73.683(TV) and that it has documented the basis for its calculations in the local public inspection file and has submitted copies to the Commission. Major modification applicants should include the area of proposed increase only (exclude any area already within the station's existing service area). (Points, if any, will be determined by FCC)	<input type="radio"/> Yes <input type="radio"/> No
	New area served in square kilometers (excluding areas of water):	
	Population served based on the most recent census block data from the United States Bureau of Census using the centroid method:	

**SECTION V - Tie Breakers - New and Major Change Applications Only** (used to choose among competing radio and television applications receiving the same number of points in Section IV)

1.	<b>Existing Authorizations.</b> By placing a number in the box, the applicant certifies that it and other parties to the application have, as of the date of filing and pursuant to 47 C.F.R. Section 73.3555, attributable interests in the stated number of relevant broadcast station authorizations. Radio applicants should count all attributable full service radio stations, AM and FM, commercial and noncommercial, and FM translator stations other than fill-in stations or those identified in IV (2)(b) above. TV applicants should count all attributable full service TV stations, commercial and noncommercial and TV translator stations other than fill-in stations or those identified in IV(2)(b) above. (number of commercial and non-commercial licenses and construction permits)
2.	<b>Pending Applications.</b> By placing a number in the box, the applicant certifies that it and other parties to the application have, as of the date of filing and pursuant to 47 C.F.R. Section 73.3555, attributable interests in the stated number of pending applications for new or major changes to relevant broadcast stations. Radio applicants should count all attributable full service radio stations, AM and FM, commercial and noncommercial, and FM translator stations other than fill-in stations or those identified in IV(2)(b) above. TV applicants should count all attributable full service TV stations, commercial and noncommercial, and TV translator stations other than fill-in stations or those identified in IV(2)(b) above. (number of pending commercial and non-commercial applications)

**Section VI -- Certification**

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in

good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing STEPHAN LAUZIER	Typed or Printed Title of Person Signing DIR, UM BUSINESS SERVICES
Signature	Date 02/13/2012

### Section VII Preparer's Certification

I certify that I have prepared Section VII (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name GREGORY L BEST	Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature	Date 02/13/2012	
Mailing Address 9223 N. MANNING AVENUE		
City KANSAS CITY	State or Country (if foreign address) MO	Zip Code 64157-
Telephone Number (include area code) 8167922913	E-Mail Address (if available) GBCONSULTING@KC.RR.COM	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

### Section VII - FM Engineering

#### TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

#### TECH BOX

1.	Channel Number: 209
2.	Class (select one): <input type="radio"/> D <input checked="" type="radio"/> A <input type="radio"/> B1 <input type="radio"/> B <input type="radio"/> C3 <input type="radio"/> C2 <input type="radio"/> C1 <input type="radio"/> C0 <input type="radio"/> C
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 37 Minutes 57 Seconds 35.5 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 91 Minutes 46 Seconds 17.8 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Proposed Assignment Coordinates: (NAD 27) - RESERVED CHANNELS ABOVE 220 ONLY <input checked="" type="checkbox"/> Not Applicable Latitude: Degrees Minutes Seconds <input type="radio"/> North <input type="radio"/> South  Longitude: Degrees Minutes Seconds <input type="radio"/> West <input type="radio"/> East
5.	Antenna Structure Registration Number: <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
6.	Overall Tower Height Above Ground Level: 50.3 meters



7.	Height of Radiation Center Above Mean Sea Level:	407.4 meters(H) 407.4 meters(V)
8.	Height of Radiation Center Above Ground Level:	47.4 meters(H) 47.4 meters(V)
9.	Height of Radiation Center Above Average Terrain:	114 meters(H) 114 meters(V)
10.	Effective Radiated Power:	1.85 kW(H) 1.85 kW(V)
11.	Maximum Effective Radiated Power: (Beam-Tilt Antenna ONLY)	<input checked="" type="checkbox"/> Not Applicable kW(H) kW(V)
12.	Directional Antenna Relative Field Values: <input checked="" type="checkbox"/> Not applicable (Nondirectional) Rotation (Degrees): <input type="checkbox"/> No Rotation	
	Degrees	Value
	0	
	60	
	120	
	180	
	240	
	300	
	Additional Azimuths	

[Relative Field Polar Plot](#)

<b>NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.</b>	
<b>CERTIFICATION</b>	
<b>AUXILIARY ANTENNA APPLICANTS ARE NOT REQUIRED TO RESPOND TO ITEMS 13-17. PROCEED TO ITEM 18.</b>	
13.	<b>Main Studio Location.</b> The proposed main studio location complies with 47 C.F.R. Section 73.1125. <input checked="" type="radio"/> Yes <input type="radio"/> No <div align="right">See Explanation in [Exhibit 15]</div>
14.	<b>Community Coverage.</b> The proposed facility complies with 47 C.F.R. Section 73.315. (Channels 221 and above) or 47 C.F.R. Section 73.515 (Channels 220 and below). <input checked="" type="radio"/> Yes <input type="radio"/> No <div align="right">See Explanation in [Exhibit 16]</div>
15.	<b>Interference.</b> The proposed facility complies with all of the following applicable rule sections. Check all that apply: <input checked="" type="radio"/> Yes <input type="radio"/> No <div align="right">See Explanation in [Exhibit 17]</div>
<b>Contour Overlap Requirements.</b> a. <input checked="" type="checkbox"/> 47 C.F.R. Section 73.509 <b>Exhibit Required.</b> [Exhibit 18]	
<b>Spacing Requirements.</b> b. <input checked="" type="checkbox"/> 47 C.F.R. Section 73.207 with respect to station(s)	
<b>Grandfathered Short-Spaced.</b> c. <input type="checkbox"/> 47 C.F.R. Section 73.213(a) with respect to station(s) <b>Exhibit Required.</b> [Exhibit 19]	
<b>Contour Protection.</b> d. <input type="checkbox"/> 47 C.F.R. Section 73.215(a) with respect to station(s) <b>Exhibit Required.</b> [Exhibit 20]	
<b>Television Channel 6 Protection.</b> e. <input type="checkbox"/> 47 C.F.R. Section 73.525 with respect to station(s) <b>Exhibit Required.</b> [Exhibit 21]	

16.	<b>Reserved Channels Above 220.</b> <b>a. Availability of Channels.</b> The proposed facility complies with the assignment requirements of 47 C.F.R. Section 73.203.	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 22]
17.	<b>International Borders.</b> The proposed antenna location is not within 320 kilometers of the common border between the United States and Canada or Mexico.  If "No," specify the country and provide an exhibit of compliance with all provisions of the relevant International Agreement.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Canada <input type="radio"/> Mexico [Exhibit 23]
18.	<b>Environmental Protection Act.</b> The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Worksheet #7, an <b>Exhibit is required.</b>  By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 24]
19.	<b>Community of License Change - Section 307(b).</b> If the application is being submitted to change the facility's community of license, then the applicant certifies that it has attached an exhibit containing information demonstrating that the proposed community of license change comports with the fair distribution of service policies underlying Section 307(b) of the Communications Act of 1934, as amended (47 U.S.C. Section 307(b)).  <b>An exhibit is required</b> unless this question is not applicable.	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A [Exhibit 25]
<b>PREPARER'S CERTIFICATION ON PAGE 8 MUST BE COMPLETED AND SIGNED.</b>		

## Exhibits

### Exhibit 16

**Description:** COMMUNITY OF COVERAGE MAP

THE ORIGINAL CP WAS ASSOCIATED WITH AN INCORRECT TOWER LOCATION. THERE ARE TWO TOWERS WITHIN 290 FEET AND THIS MODIFICATION TO THE CONSTRUCTION PERMIT CORRECTLY LOCATES THE BROADCAST FACILITY. THE CORRECT TOWER DOES NOT HAVE AN ASR AND IS BELOW 200 FEET TALL INCLUDING ALL APPURTENANCES. THE LOCATION AND TOWER HEIGHT PASSES THE SLOPE REQUIREMENTS ACCORDING TO TOWAIR.

THE ATTACHED CONTOUR MAP INDICATES HOW THE PROPOSED FACILITY ENCOMPASSES THE COMMUNITY OF LICENSE MEETING FCC RULE 73.515.

### Attachment 16

Description
<a href="#">COMMUNITY OF LICENSE COVERAGE</a>

### Exhibit 17

**Description:** INTERFERENCE ANALYSIS EXHIBIT

PLEASE SEE THE RESPECTIVE SECTIONS FOR THE INTERFERENCE ANALYSIS FOR THIS PROPOSED FACILITY.



**Attachment 17****Exhibit 18****Description:** INTERFERENCE ANALYSIS

PLEASE SEE THE ATTACHED INTERFERENCE ANALYSIS. THE ANALYSIS CONSISTS OF EVALUATING CONTOUR OVERLAP WITH EVERY FULL SERVICE AUTHORIZED FACILITY AND APPLICATION THAT IS +/- 3 CHANNELS OR LESS FROM THE PROPOSED CHANNEL WITHIN THE SPACING DISTANCES PRESCRIBED BY FCC RULE 73.207. CONTOURS ARE PLOTTED ON THE ATTACHED MAP AND EVALUATED FOR OVERLAP ACCORDING TO FCC RULE 73.509. THE TERRAIN DATABASE USED FOR THE THE ANALYSIS WAS THE USGS 3 SECOND DATABASE. AS CAN BE SEEN FROM THE TWO EXHIBITS, NO PROHIBITED CONTOUR OVERLAP EXISTS.

**Attachment 18**

Description
<a href="#">Proposed Facility Incoming Interference Analysis</a>
<a href="#">Proposed Facility Outgoing Interference Analysis</a>

**Exhibit 24****Description:** RF EXPOSURE ANALYSIS

THE ANTENNA RADIATION CENTER IS 29.4 METERS TALL ON THE TOWER THAT SUPPORTS THE ANTENNA. THE TOWER IS LOCATED ON TOP OF A BUILDING THAT IS 18 METERS TALL SO THE RADIATION CENTER IS 47.4 METERS ABOVE GROUND LEVEL. THERE IS AN ADJACENT BUILDING SUCH THAT THE CLOSEST EDGE OF THE BUILDING IS 36.6 METERS AWAY AND THE BUILDING IS 29 METERS TALL. SEE THE ATTACHED SKETCH. THE WORST CASE RADIATION WOULD ASSUME A PERSON TO BE STANDING ON THE ADJACENT BUILDING. THIS WOULD BE EQUIVALENT TO ASSUMING THE 'GROUND' LEVEL WOULD BE THE SAME HEIGHT AS THE ADJACENT BUILDING. THE RF EXPOSURE FROM THE PROPOSED FACILITY WAS CALCULATED USING THE FM MODEL PROGRAM USING A 2 BAY FULL-WAVE SPACED ROTOTILLER TYPE DESIGN ASSUMING THE HEIGHT ABOVE GROUND IS ONLY THE DIFFERENCE IN HEIGHT BETWEEN THE ANTENNA RADIATION CENTER AND THE ADJACENT BUILDING HEIGHT. THE MAXIMUM POWER DENSITY FROM THE ANTENNA UNDER THIS SCENARIO WAS CALCULATED TO BE 90 UWATTS/SQ.CM AT A DISTANCE OF 9.6 METERS FROM THE TOWER. AT A DISTANCE EQUAL TO THE ADJACENT BUILDING (36.6 METERS), THE MAXIMUM POWER DENSITY WAS CALCULATED TO BE <15 UWATTS/SQ.CM. THUS THE MAXIMUM POWER DENSITY AVAILABLE TO ANY GENERAL POPULATION IS WELL BELOW THE LIMIT ESTABLISHED BY OET-65 FOR THE GENERAL POPULATION EXPOSURE LEVEL. IN ADDITION, THE SCENARIO WHERE A PERSON IS STANDING ON THE BUILDING BENEATH THE TOWER WAS EXAMINED. IN THIS CASE, THE 'GROUND' LEVEL USED WAS THE DISTANCE FROM THE RADIATION CENTER TO THE BUILDING ROOF. THIS IS A DISTANCE OF 29.4 METERS. THE MAXIMUM LEVEL RF EXPOSURE WAS CALCULATED TO BE 24 UWATTS/SQ.CM. AT A DISTANCE OF 18 METERS (WHICH IS ALSO OFF THE BUILDING) AND THUS IS WELL BELOW THE RF EXPOSURE LIMIT FOR THE GENERAL POPULATION AS IDENTIFIED IN OET-65.

**Attachment 24**

Description
<a href="#">RF EXPOSURE ANALYSIS</a>