

FEDERAL COMMUNICATIONS COMMISSION
Washington, D. C. 20554
DEC 8 1996

DOCKET FILE COPY ORIGINAL

OFFICE OF
MANAGING DIRECTOR

Mr. Rusty Wilson, Assistant General Counsel
Pathnet, Inc.
1015 31st Street, N.W.
Washington, D.C. 20007

86-255

Re: Fee Control # 9807228680248006

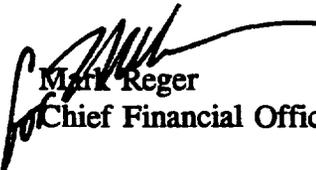
Dear Mr. Wilson:

This will respond to your request for refund of the fee filed on behalf of Pathnet, Inc. ("Pathnet") in connection with its amendment to four previously filed applications to operate a fixed point-to-point microwave system.

The Commission's rules do not specify a fee for an amendment to a previously filed application. Indeed, section 1.1109(d) of the Commission's rules, 47 C.F.R. § 1.1109(d) provides an additional fee will not be assessed when an application is resubmitted with additional or corrected information, "unless the additional information results in an increase of the original fee amount." Because the amendment did not result in an increase in the original fee amount, an additional fee was not required. Under the circumstances, refund of the filing fee is appropriate. See 47 C.F.R. § 1.1113(a)(1).

Accordingly, your request is granted. A check, made payable to the maker of the original check and drawn in the amount of \$760.00, will be sent to you at the earliest practicable time. If you have any questions concerning this refund, please contact the Chief, Fee Section, at (202) 418-1995.

Sincerely,


Mark Reger
Chief Financial Officer

9807228680248006 (Gettysburg)

1015 31st Street NW • Washington DC 20007 • T 202 625 7284 • F 202 625 7369

Pathnet

August 26, 1998

Mr. Andrew Fishel
Managing Director
Federal Communications Commission
1919 M Street, N.W.
Room 852
Washington, D.C. 20554

RECEIVED

SEP 1 10 42 AM '98

ASSOC. MNG. DIR.
FINANCIAL OPERATIONS
(AND-FO)

Re: Refund Request

Dear Mr. Fishel:

Pathnet, Inc. hereby requests a refund in the amount of \$760 in connection with a filing fee that was erroneously submitted to the Commission in Pittsburgh, Pennsylvania. On July 21, 1998, Pathnet submitted amendments to four applications on FCC Form 415 to operate a common carrier, fixed point-to-point microwave system. These amendments were filed at the Mellon Bank in Pittsburgh, Pennsylvania, along with a check in the amount of \$760. At the time these amendments were submitted, the original applications were pending with the Commission in Gettysburg. The Commission permits applicants to amend pending applications without submitting an additional filing fee. Accordingly, Pathnet, Inc. respectfully requests a refund of the \$760 erroneously filed in connection with these amendments.

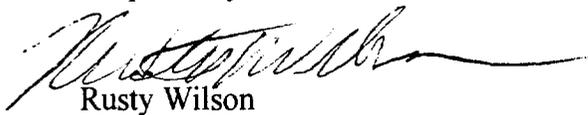
Enclosed is a date-stamped copy of the July 21, 1998 filing, including a copy of the FCC Form 159 filed by Pathnet. Also enclosed is a copy of Pathnet's cancelled check for \$760.

Please forward the refund to the undersigned at the following address:

Pathnet, Inc.
1015 - 31st Street, N.W.
Washington, D.C. 20007

Any questions in connection with this refund request should also be addressed to the undersigned.

Respectfully submitted,



Rusty Wilson
Assistant General Counsel

Enclosures

COVINGTON & BURLING

1201 PENNSYLVANIA AVENUE, N. W.

P.O. BOX 7566

WASHINGTON, D.C. 20044-7566

(202) 662-6000

FACSIMILE: (202) 662-6291

ALANE C. WEIXEL

DIRECT DIAL NUMBER

(202) 662-5199

DIRECT FACSIMILE NUMBER

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aweixel@cov.com

LECONFIELD HOUSE

CURZON STREET

LONDON W1Y 8AS

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TELEPHONE 44-171-495-5656

FACSIMILE 44-171-495-3101

KUNSTLAAN 44 AVENUE DES ARTS

BRUSSELS 1040 BELGIUM

TELEPHONE 32-2-549-5230

FACSIMILE 32-2-502-1598

July 21, 1998

Via Courier

Ms. Magalie R. Salas
Secretary
Federal Communications Commission
Common Carrier Domestic Radio
P.O. Box 358680
Pittsburgh, Pennsylvania 15251-5680

FCC/MELLON

JUL 21 1998

**Re: Amendments to Applications of Pathnet, Inc. for
Authorization in the Microwave Services – FCC Form 415
File Nos. 9706250, 9706251, 9706080, 9706081**

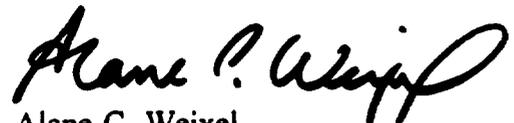
Dear Ms. Salas:

Submitted herewith for filing on behalf of Pathnet, Inc. are amendments to four applications on FCC Form 415 to operate a common carrier, fixed point-to-point microwave system. These amendments are being submitted to request channel pairings that are consistent with the channel plan in Section 101.147 of the Commission's Rules, 47 C.F.R. § 101.147.

Also submitted herewith is a check in the amount of \$760 (\$190 x 4) in respect of the applicable filing fees, as well as a completed FCC Form 159.

Any questions in connection with this submission should be addressed to the undersigned.

Respectfully submitted,



Alane C. Weixel

Attorney for Pathnet, Inc.

cc: Mr. Tracy Simmons (via Federal Express)
Wireless Telecommunications Bureau

FCC 415

Main Form

FEDERAL COMMUNICATIONS COMMISSIONApproved by OMB
3080-0747
Expires 12/31/99
Est. Avg. Burden Hours
Per Response 7 hrsFCC Use Only
(File Number)**Application for Authorization in the Microwave Services**

Parts 74 and 101

FEE Use Only

FILING FEE

(a) Fee Type Code	(b) Fee Multiple	(c) Fee Due for Fee Type Code in (a)	(d) Total Amount Due	FEE Use Only
CJP	1	190.00	190.00	

APPLICANT

1. Legal Name of Applicant Pathnet, Inc.		2. Voice Telephone Number (202) 625-7284	
3. Assumed Name Used for Doing Business (if any)		4. Fax Telephone Number (202) 625-7369	
5. Mailing Address, Street or P.O. Box 1015 31st Street, N.W. ATTENTION: Rusty Wilson			
6. City Washington		7. State DC	8. Zip Code 20007
9. E-mail or Internet Address rwilson@pathnet.net		10. Taxpayer Identification Number 52-1941838	
11. Name of Contact Representative (if other than applicant)		12. Voice Telephone Number	
13. Contact Representative Firm or Company Name		14. Fax Telephone Number	
15. Mailing Address, Street or P.O. Box			
16. City		17. State	18. Zip Code

CLASSIFICATION OF FILING

19. Type of Applicant (<u>C</u>) Individual Partnership Corporation Unincorporated Association Governmental Entity		
20. Does applicant qualify as a Non-Commercial Educational Broadcaster?		(<u>N</u>) Yes No
21. If this filing is an Amendment to a pending application: File number of Pending application: _____ Receipt Date: _____	22. Eligibility Rule Section N/A	23. Service Type Code PTP
24. Does this filing propose a waiver or exception to the Commission's Rules? "If 'yes' attach exhibit explaining circumstances		(<u>N</u>) Yes No
25. Does this filing pose potential interference to Geostationary Satellite Operation? "If 'yes' attach exhibit explaining circumstances		(<u>N</u>) Yes No
26. Is notification to the National Radio Astronomy Observatory required? If "Yes", provide date of notification:		(<u>N</u>) Yes No
27. If this filing is in reference to an existing station at the same location, give the call sign. If this filing is for a Transfer of Control or Assignment or Renewal of Authorization, list all call signs to be transferred or assigned:		

ADMINISTRATIVE INFORMATION

<p>28. The purpose of this filing is to:</p> <p>(J)</p> <p>Enter one or more letters that correctly describes the purpose of this filing.</p>	<table border="0"> <tr><td>A</td><td>request an initial authorization for a new station (all)</td></tr> <tr><td>B</td><td>request authorization for modification of an existing licensed station (all)</td></tr> <tr><td>C</td><td>request authorization for a minor modification (Private and Common Carrier)</td></tr> <tr><td>D</td><td>request authorization to renew an existing licensed station (all)</td></tr> <tr><td>E</td><td>request authorization to reinstate an expired licensed station (all)</td></tr> <tr><td>F</td><td>request a full assignment of a radio station authorization (Private)</td></tr> <tr><td>G</td><td>request authorization of a developmental station (Private and Common Carrier)</td></tr> <tr><td>H</td><td>request authorization for transfer of control (Private)</td></tr> <tr><td>I</td><td>request authorization to convert from Private to Common Carrier (Common Carrier)</td></tr> <tr><td>J</td><td>request amendment to a pending application (all)</td></tr> </table>	A	request an initial authorization for a new station (all)	B	request authorization for modification of an existing licensed station (all)	C	request authorization for a minor modification (Private and Common Carrier)	D	request authorization to renew an existing licensed station (all)	E	request authorization to reinstate an expired licensed station (all)	F	request a full assignment of a radio station authorization (Private)	G	request authorization of a developmental station (Private and Common Carrier)	H	request authorization for transfer of control (Private)	I	request authorization to convert from Private to Common Carrier (Common Carrier)	J	request amendment to a pending application (all)
A	request an initial authorization for a new station (all)																				
B	request authorization for modification of an existing licensed station (all)																				
C	request authorization for a minor modification (Private and Common Carrier)																				
D	request authorization to renew an existing licensed station (all)																				
E	request authorization to reinstate an expired licensed station (all)																				
F	request a full assignment of a radio station authorization (Private)																				
G	request authorization of a developmental station (Private and Common Carrier)																				
H	request authorization for transfer of control (Private)																				
I	request authorization to convert from Private to Common Carrier (Common Carrier)																				
J	request amendment to a pending application (all)																				
<p>29. If this filing is for modification of an existing licensed station, or is for a partial assignment of authorization, specifically describe changes requested.</p> <p>N/A</p>																					
<p>30. Number of associated applications filed as a system</p> <p>19</p>	<p>31. FCC File Numbers of associated applications filed as a system, if known</p> <p>N/A</p>																				
<p>32. Type of MAS Operation</p> <p>()</p>	<p>Two-way master-remote One-way outbound One-way Inbound</p>	<p>Mobile meter reader Subfrequency operation Multiple master operation</p>	<p>33. Requested Authorization Expiration Date</p> <p>Month 12 Day 31</p>																		

POINT OF CONTACT FOR TECHNICAL OPERATIONS

<p>34. Mailing address street or geographical description</p> <p>Pathnet, Inc., 1015 31st Street, N.W.</p>	<p>35. Voice Telephone Number</p> <p>(202) 625-7284</p>	
<p>36. City</p> <p>Washington</p>	<p>37. State</p> <p>DC</p>	<p>38. Zip code</p> <p>20007</p>

BROADCAST AUXILIARY APPLICANTS

<p>39. Name of Broadcast Auxiliary frequency coordinator</p>	<p>40. Voice Telephone Number</p>
<p>41. Call Sign of associated Broadcast Station, if any</p>	<p>42. Radio Service Code of associated Broadcast Station</p>

TRANSFER OF CONTROL APPLICANTS

<p>43. Is this a pro forma Transfer of Control?</p>	<p>(N) Yes No</p>	
<p>44. Is each station named in item 27 of this filing constructed and operational?</p>	<p>(N) Yes No</p>	
<p>45. Name of Transferee</p>		
<p>46. Transferee's Mailing Address, Street</p>		
<p>47. City</p>	<p>48. State</p>	<p>49. Zip code</p>

ENVIRONMENTAL POLICY

50. Would a Commission grant of any proposal in this application or amendment have a significant environmental effect as defined by 47 CFR 1.1307? <small>* If "yes" attach environmental assessment as required by 47 CFR 1.1308 and 47 CFR 1.1311</small>	(N) <u>Yes</u> No
--	---------------------

FOREIGN GOVERNMENT REPRESENTATION

51. Is the applicant a foreign government or the representative of any foreign government?	(N) <u>Yes</u> No
--	---------------------

COMMON CARRIER APPLICANTS - ALIEN OWNERSHIP

52. Is the applicant an alien or the representative of an alien? *	(N) <u>Yes</u> No
53. Is the applicant a corporation organized under the laws of any foreign government? *	(N) <u>Yes</u> No
54. Is the applicant a corporation of which any officer or director is an alien or 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? *	(N) <u>Yes</u> No
55. Is the applicant a corporation directly or indirectly controlled by any other corporation of which any officer or more than one-fourth of the directors are aliens, or 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? <small>* If "yes" attach exhibit explaining nature and extent of alien or foreign ownership or control</small>	(N) <u>Yes</u> No

*If yes, attach exhibit explaining circumstances.

BASIC QUALIFICATIONS

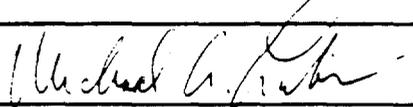
(To be completed by Private Operational Fixed and Common Carrier applicants only.)

56. Has the applicant or any party to this application or amendment 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, construction permit denied by the Commission? *	(N) <u>Yes</u> No
57. 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? *	(N) <u>Yes</u> No
58. 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? *	(N) <u>Yes</u> No
59. 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? *	(N) <u>Yes</u> No
60. Is this a Common Carrier corporation? <small>If "Yes" attach exhibit showing names, addresses and citizenship of those stockholders owning of 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 applicant as well as any controlling corporations. If this information is currently up to date and on file with the Commission, this additional exhibit is not required with this filing.</small>	(Y) <u>Yes</u> No See Exhibit 1

* If "yes", attach exhibit explaining circumstances.

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 neither the 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 Abuse Act of 1988, 21 U.S.C., Section 862, because of a conviction for possession or distribution of a controlled substance. 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.
*See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes

61. Typed Name of Person Signing Michael A. Lubin	62. Title Vice President & Gen. Counsel
63. Signature 	64. Date July 16, 1998

WILLFUL FALSE STATEMENTS MADE 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).

Exhibit 1

SHAREHOLDERS WITH 10 PERCENT OR GREATER INTEREST IN PATHNET, INC.			
Stockholder	Address	Citizenship	% of Total Shares
Spectrum Equity Investors, L.P.	One International Place Boston, MA 02110	Delaware	19.0656%
Spectrum Equity Investors II, L.P.	One International Place Boston, MA 02110	Delaware	10.1204%
New Enterprise Associates VI, L.P.	1119 Saint Paul Street Baltimore, MD 21202	Delaware	14.6792%
Toronto Dominion Capital (U.S.A.), Inc.	31 W 52nd Street New York, NY 10019	Delaware	10.7526%
Grotech Partners IV, L.P.	9690 Deereco Road Timonium, MD 21093	Delaware	10.7526%
David Schaeffer	1015 31st Street, N.W. Washington, D.C. 20007	USA	10.7632%

DIRECTORS OF PATHNET, INC.	
Director	Business Address
Richard A. Jalkut	1015 31st Street, N.W., Washington, D.C. 20007
David Schaeffer	1015 31st Street, N.W., Washington, D.C. 20007
Peter J. Barris	1015 31st Street, N.W., Washington, D.C. 20007
Kevin J. Maroni	1015 31st Street, N.W., Washington, D.C. 20007
Richard K. Prins	1015 31st Street, N.W., Washington, D.C. 20007
Patrick J. Kerins	1015 31st Street, N.W., Washington, D.C. 20007
Stephen A. Reinstadtler	1015 31st Street, N.W., Washington, D.C. 20007

OFFICERS OF PATHNET, INC.	
Officer	Business Address
David Schaeffer Chairman	1015 31st Street, N.W., Washington, D.C. 20007
Richard A. Jalkut President, CEO	1015 31st Street, N.W., Washington, D.C. 20007
Kevin J. Bennis President, Sales and Marketing	1015 31st Street, N.W., Washington, D.C. 20007
William R. Smedberg Vice President, Finance & Corporate Development	1015 31st Street, N.W., Washington, D.C. 20007
Michael A. Lubin Vice President & General Counsel	1015 31st Street, N.W., Washington, D.C. 20007
Michael L. Brooks Vice President, Network Development	1015 31st Street, N.W., Washington, D.C. 20007

FCC
415
Schedule A

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES
Transmit Site Data

A1. Action requested (<u>M</u>) <u>New Site</u> <u>Modify</u>	A2. Station class FXO	A3. Site name Humble
A4. Service area or SMSA		

TRANSMIT LOCATION

FIXED POINT, TEMPORARY, OR MOBILE

A5. Street address or other geographic description of fixed location 3 1/2 miles east of junction I-59 and FM 1960, 1/2 mile north.		
A6. City Humble		
A7. County Harris		
A8. State TX	A9. Ground elevation AMSL (feet) 68	A10. Overall height of antenna structure (feet) 261
A11. Latitude (DD-MM-SS.S) 30-00-29	A12. Longitude (DDD-MM-SS.S) 95-12-46	A13. North American Datum (NAD) (2) 27 83
A14. Maximum Latitude (DD-MM-SS.S)	A15. Maximum Longitude (DDD-MM-SS.S)	A16. Temporary or Mobile Radius of Operation (miles)
A17. Wide area operations () <u>Nationwide</u> <u>Continental United States</u>		

TRANSMIT ANTENNA STRUCTURE INFORMATION

A18. If antenna will be mounted on an antenna structure which has been registered with the Commission, give the seven digit Registration Number. (None)		
IF REGISTRATION NUMBER IS ENTERED IN ITEM A 18, DO NOT COMPLETE ITEMS A 19 - 23.		
A19. Has the owner of the antenna structure filed an FCC Form 854, Application for Antenna Structure Registration with the Commission ? (N) <u>Yes</u> <u>No</u>		
A20. If Yes, give date FCC Form 854 was filed with the Commission.	Month ()	Year ()
A21. Give the Figure Number that best describes your antenna arrangement.	(3) 1 2 3	
A22. Give the type of antenna structure on which your antenna will be mounted.	Tower	
A23. Give the height of the antenna supporting structure, shown in feet.	240	

Frequency Data

B1. Transmit Site (30-00-29) Latitude (95-12-46) Longitude

B2. Path Number (1) of this filing

TRANSMITTER	EXISTING FREQUENCY DATA	PROPOSED FREQUENCY DATA
B3. Frequency (MHz)		6004.5
Additional Frequency (MHz)		5945.2
Additional Frequency (MHz)		
B4. Emission Designator		30M0D7W ✓
Additional Emission Designator		
Additional Emission Designator		
Additional Emission Designator		
B5. Tx Manufacturer		NEC
B6. Tx Type Acceptance Number		BSF6P155-S02A
B7. Tolerance (%)		0.0003 ✓
B8. Tx Power Output watts		0.093
B9. Baseband Signal Type		DIG
B10. Maximum Channel Capacity		OC-3 (2016 Voice Ch)
B11. Digital Modulation Rate		168.56 MB/Sec.
B12. Digital Modulation Type		128 QAM MLCM
B13. Effective Isotropic Radiated Power (dBm)		70.8 ✓
B14. Automatic Transmitter Power Control?	() Yes No	(Y) Yes No
B15. Tx Line Loss (dB)		2.18
B16. Receiver Line Loss (dB)		3.07
B17. Median Receiver Signal Level (dBm)		-41.2

EXHIBIT 2

JUSTIFICATION FOR USE OF UNPAIRED FREQUENCIES (47 C.F.R. § 101.147)

Through this application, Pathnet seeks authorization to provide high quality, low cost, long haul telecommunications capacity to second and third tier markets throughout the United States by developing a state-of-the-art SONET network. Pathnet plans to deploy its digital network primarily by upgrading, integrating and leveraging existing telecommunications assets, sites and rights of way, including those utilized by private microwave licensees, such as railroads, utilities, state and local governments, and pipelines. As part of its strategic relationship with such private microwave licensees, Pathnet is assisting the incumbent microwave licensees in relocating to the 6 GHz band, if so requested by an incumbent, and in upgrading their systems to digital.

In deploying the microwave telecommunications system that is the subject of this application, Pathnet is utilizing the existing telecommunications assets, sites and rights of way of a private microwave licensee (Texaco Pipeline, Inc.) that utilizes its microwave system to operate its mission-critical facilities. Pathnet is assisting this incumbent licensee in upgrading its analog microwave system to digital. The incumbent private microwave licensee uses the existing telecommunications system for critical communications relating to its operations conducted at or near the existing microwave stations. To upgrade the private microwave licensee's existing system to digital, Pathnet is limited to the use of the existing microwave stations. At the microwave station that is the subject of this application, using conventional paired frequencies set forth in 47 C.F.R. § 101.147 resulted in unacceptable levels of frequency interference. Consequently, it was necessary for Pathnet to select unpaired frequencies in order to maintain acceptable levels of frequency interference at this microwave station.



July 17, 1998

**Federal Communications Commission
Wireless Telecommunications Bureau
Public Safety and Private Wireless Division
Licensing and Technical Analysis Branch
1270 Fairfield Road
Gettysburg, PA 17325-7245**

Re: Pathnet, Inc.; PS&PWD-LTAD-658

Dear Sir or Madam:

This letter is submitted in connection with several applications submitted by Pathnet, Inc. (Pathnet) on or about April 3, 1998 for authorizations in the so-called 6.175 GHz band. It is our understanding that Pathnet requested the use of frequency assignments paired in a manner not specified in Section 101.147(i)(8) of the rules and regulations of the Federal Communications Commission (FCC) for the frequency paths described as Humble - T. Heritage Plaza, and Horseshoe Bayou - Morgan City.

In advance of submitting the applications now in question, Pathnet asked us to evaluate the potential use of all of the frequency pairs specified in section 101.147(i)(8) for use between the sites specified in their applications. In response to Pathnet's request, we analyzed the use of the eight channel pairs specified in that section of the regulations and noted in our path analysis the level of interference to which each of the channel pairs would likely be subject.

Standard frequency pairs 6004.50 - 6256.54 MHz and 6063.80 - 6315.84 MHz had minimal levels of interference and were therefore selected for use by Pathnet. At least one frequency in each other standard frequency pair had levels of interference that would cause undesirable degradation in transmission service and it is standard practice to avoid such frequencies in favor of frequencies that do not have such interference. Because undesirable levels of interference and service degradation would have been encountered with the use of any of the standard paired frequencies, besides those noted above, the applicant selected unpaired frequencies 5945.20 - 6315.84 MHz, 6315.84 - 5945.20 MHz, 6197.24 - 6004.50 MHz, and 6004.50 - 6197.24 MHz.

Very truly yours,

A handwritten signature in cursive script that reads "Eric Y. Pillet".

Eric Y. Pillet
Systems Engineer

**FCC
415**

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES

Schedule C

Path Data

C1. Purpose of filing (A) Add new Path Delete Path Modify Path No Changes to Existing Path Data

C2. Transmit site (30-00-29) Latitude (95-12-46) Longitude C3 Path Number (1) of this filing.

TRANSMIT ANTENNA

EXISTING PATH DATA

PROPOSED PATH DATA

C4. Height to center of final radiating element (ft)		166
C5. Antenna manufacturer		Andrew
C6. Antenna model number		UHX8-59H
C7. Antenna gain		41.3 /
C8. Beamwidth (degrees)		1.4 /
C9. Polarization		V
C10. Azimuth to Rx site or passive repeater		208.9
C11. Elevation angle		
C12. Diversity Tx antenna height (ft)		
C13. Diversity Tx antenna manufacturer		
C14. Diversity Tx antenna model number		
C15. Diversity Tx antenna gain		
C16. Diversity Tx beamwidth (degrees)		
C17. Tx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C18. Tx periscope reflector separation (ft)		

FINAL RECEIVER

EXISTING PATH DATA

PROPOSED PATH DATA

C19. Receiver site name		T. Heritage Plaza
C20. Call Sign		
C21. Latitude		29-45-30
C22. Longitude		95-22-14
C23. Ground elevation (ft)		16
C24. Does path include a passive repeater?	() Yes <u>No</u>	(<u>N</u>) Yes <u>No</u>
C25. Height to center of Rx antenna (ft)		742
C26. Rx antenna manufacturer		Andrew
C27. Rx antenna model number		UHX8-59H
C28. Rx antenna gain		41.3
C29. Diversity Rx antenna height		742
C30. Diversity Rx antenna manufacturer		Andrew
C31. Diversity Rx antenna model number		UHX8-59H
C32. Diversity Rx antenna gain		41.3
C33. Rx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C34. Rx periscope reflector separation		

Frequency Data

B1. Transmit Site (30-00-29) Latitude (95-12-46) Longitude

B2. Path Number (2) of this filing.

TRANSMITTER	EXISTING FREQUENCY DATA	PROPOSED FREQUENCY DATA
B3. Frequency (MHz)	6004.5	5945.2
Additional Frequency (MHz)	5945.2	6004.5
Additional Frequency (MHz)		
B4. Emission Designator	30M0D7W	30M0D7W
Additional Emission Designator		
Additional Emission Designator		
Additional Emission Designator		
B5. Tx Manufacturer	NEC	NEC
B6. Tx Type Acceptance Number	BSF6P155-S02A	BSF6P155-S02A
B7. Tolerance (%)	0.0003	0.0003
B8. Tx Power Output watts	0.148	0.148
B9. Baseband Signal Type	DIG	DIG
B10. Maximum Channel Capacity	OC-3 (2016 Voice Ch)	OC-3 (2016 Voice Ch)
B11. Digital Modulation Rate	168.56 MB/Sec.	168.56 MB/Sec.
B12. Digital Modulation Type	128 QAM MLCM	128 QAM MLCM
B13. Effective Isotropic Radiated Power (dBm)	72.0	72.0
B14. Automatic Transmitter Power Control?	(Y) Yes No	(Y) Yes No
B15. Tx Line Loss (dB)	2.90	2.90
B16. Receiver Line Loss (dB)	4.32	4.32
B17. Median Receiver Signal Level (dBm)	-39.6	-39.6

**FCC
415**

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES

Schedule C

Path Data

C1. Purpose of filing (**M**) Add new Path Delete Path Modify Path No Changes to Existing Path Data

C2. Transmit site (**30-00-29**) Latitude (**95-12-46**) Longitude C3. Path Number (**2**) of this filing.

TRANSMIT ANTENNA	EXISTING PATH DATA	PROPOSED PATH DATA
C4. Height to center of final radiating element (ft)	236	236
C5. Antenna manufacturer	Andrew	Andrew
C6. Antenna model number	UHX10-59J	UHX10-59J
C7. Antenna gain	43.2	43.2
C8. Beamwidth (degrees)	1.1	1.1
C9. Polarization	V	V
C10. Azimuth to Rx site or passive repeater	84.3	84.3
C11. Elevation angle		
C12. Diversity Tx antenna height (ft)		
C13. Diversity Tx antenna manufacturer		
C14. Diversity Tx antenna model number		
C15. Diversity Tx antenna gain		
C16. Diversity Tx beamwidth (degrees)		
C17. Tx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C18. Tx periscope reflector separation (ft)		

FINAL RECEIVER	EXISTING PATH DATA	PROPOSED PATH DATA
C19. Receiver site name	Liberty	Liberty
C20. Call Sign		
C21. Latitude	30-02-38	30-02-38
C22. Longitude	94-47-37	94-47-37
C23. Ground elevation (ft)	17	17
C24. Does path include a passive repeater?	(N) Yes No	(N) Yes No
C25. Height to center of Rx antenna (ft)	356	356
C26. Rx antenna manufacturer	Andrew	Andrew
C27. Rx antenna model number	UHX10-59J	UHX10-59J
C28. Rx antenna gain	43.2	43.2
C29. Diversity Rx antenna height	316	316
C30. Diversity Rx antenna manufacturer	Andrew	Andrew
C31. Diversity Rx antenna model number	UHX10-59J	UHX10-59J
C32. Diversity Rx antenna gain	43.2	43.2
C33. Rx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C34. Rx periscope reflector separation		

FCC 415 Main Form	FEDERAL COMMUNICATIONS COMMISSION	Approved by OMB 3080-0747 Expires 12/31/99 Est. Avg. Burden Hours Per Response: 7 hrs.	FCC Use Only (File Number)
Application for Authorization in the Microwave Services Parts 74 and 101			FEE Use Only

FILING FEE

(a) Fee Type Code	(b) Fee Multiple	(c) Fee Due for Fee Type Code in (a)	(d) Total Amount Due	FEE Use Only
CJP	1	190.00	190.00	

APPLICANT

1. Legal Name of Applicant Pathnet, Inc.		2. Voice Telephone Number (202) 625-7284	
3. Assumed Name Used for Doing Business (if any)		4. Fax Telephone Number (202) 625-7369	
5. Mailing Address, Street or P.O. Box 1015 31st Street, N.W. ATTENTION: Rusty Wilson			
6. City Washington		7. State DC	8. Zip Code 20007
9. E-mail or Internet Address rwilson@pathnet.net		10. Taxpayer Identification Number 52-1941838	
11. Name of Contact Representative (if other than applicant)		12. Voice Telephone Number	
13. Contact Representative Firm or Company Name		14. Fax Telephone Number	
15. Mailing Address, Street or P.O. Box			
16. City		17. State	18. Zip Code

CLASSIFICATION OF FILING

19. Type of Applicant (<u>C</u>) Individual <u>Partnership</u> <u>Corporation</u> <u>Unincorporated Association</u> <u>Governmental Entity</u>		
20. Does applicant qualify as a Non-Commercial Educational Broadcaster?		(<u>N</u>) <u>Yes</u> <u>No</u>
21. If this filing is an Amendment to a pending application: File number of Pending application: _____ Receipt Date: _____	22. Eligibility Rule Section N/A	23. Service Type Code PTP
24. Does this filing propose a waiver or exception to the Commission's Rules? <small>"If 'yes', attach exhibit explaining circumstances.</small>		(<u>N</u>) <u>Yes</u> <u>No</u>
25. Does this filing pose potential interference to Geostationary Satellite Operation? <small>"If 'yes', attach exhibit explaining circumstances.</small>		(<u>N</u>) <u>Yes</u> <u>No</u>
26. Is notification to the National Radio Astronomy Observatory required? If "Yes", provide date of notification: _____		(<u>N</u>) <u>Yes</u> <u>No</u>
27. If this filing is in reference to an existing station at the same location, give the call sign. If this filing is for a Transfer of Control or Assignment of Authorization, list all call signs to be transferred or assigned:		

ADMINISTRATIVE INFORMATION

<p>28. The purpose of this filing is to:</p> <p>(J)</p> <p>Enter one or more letters that correctly describes the purpose of this filing.</p>	<table border="0"> <tr><td>A</td><td>request an initial authorization for a new station (all)</td></tr> <tr><td>B</td><td>request authorization for modification of an existing licensed station (all)</td></tr> <tr><td>C</td><td>request authorization for a minor modification (Private and Common Carrier)</td></tr> <tr><td>D</td><td>request authorization to renew an existing licensed station (all)</td></tr> <tr><td>E</td><td>request authorization to reinstate an expired licensed station (all)</td></tr> <tr><td>F</td><td>request a full assignment of a radio station authorization (Private)</td></tr> <tr><td>G</td><td>request authorization of a developmental station (Private and Common Carrier)</td></tr> <tr><td>H</td><td>request authorization for transfer of control (Private)</td></tr> <tr><td>I</td><td>request authorization to convert from Private to Common Carrier (Common Carrier)</td></tr> <tr><td>J</td><td>request amendment to a pending application (all)</td></tr> </table>	A	request an initial authorization for a new station (all)	B	request authorization for modification of an existing licensed station (all)	C	request authorization for a minor modification (Private and Common Carrier)	D	request authorization to renew an existing licensed station (all)	E	request authorization to reinstate an expired licensed station (all)	F	request a full assignment of a radio station authorization (Private)	G	request authorization of a developmental station (Private and Common Carrier)	H	request authorization for transfer of control (Private)	I	request authorization to convert from Private to Common Carrier (Common Carrier)	J	request amendment to a pending application (all)
A	request an initial authorization for a new station (all)																				
B	request authorization for modification of an existing licensed station (all)																				
C	request authorization for a minor modification (Private and Common Carrier)																				
D	request authorization to renew an existing licensed station (all)																				
E	request authorization to reinstate an expired licensed station (all)																				
F	request a full assignment of a radio station authorization (Private)																				
G	request authorization of a developmental station (Private and Common Carrier)																				
H	request authorization for transfer of control (Private)																				
I	request authorization to convert from Private to Common Carrier (Common Carrier)																				
J	request amendment to a pending application (all)																				
<p>29. If this filing is for modification of an existing licensed station, or is for a partial assignment of authorization, specifically describe changes requested.</p> <p>N/A</p>																					
<p>30. Number of associated applications filed as a system</p> <p>19</p>	<p>31. FCC File Numbers of associated applications filed as a system, if known</p> <p>N/A</p>																				
<p>32. Type of MAS Operation</p> <p>()</p>	<table border="0"> <tr> <td><u>T</u>wo-way master-remote</td> <td><u>M</u>obile meter reader</td> </tr> <tr> <td><u>O</u>ne-way outbound</td> <td><u>S</u>ubfrequency operation</td> </tr> <tr> <td><u>O</u>ne-way Inbound</td> <td><u>M</u>ultiple master operation</td> </tr> </table>	<u>T</u> wo-way master-remote	<u>M</u> obile meter reader	<u>O</u> ne-way outbound	<u>S</u> ubfrequency operation	<u>O</u> ne-way Inbound	<u>M</u> ultiple master operation	<p>33. Requested Authorization Expiration Date</p> <p>Month 12 Day 31</p>													
<u>T</u> wo-way master-remote	<u>M</u> obile meter reader																				
<u>O</u> ne-way outbound	<u>S</u> ubfrequency operation																				
<u>O</u> ne-way Inbound	<u>M</u> ultiple master operation																				

POINT OF CONTACT FOR TECHNICAL OPERATIONS

<p>34. Mailing address street or geographical description</p> <p>Pathnet, Inc., 1015 31st Street, N.W.</p>	<p>35. Voice Telephone Number</p> <p>(202) 625-7284</p>	
<p>36. City</p> <p>Washington</p>	<p>37. State</p> <p>DC</p>	<p>38. Zip code</p> <p>20007</p>

BROADCAST AUXILIARY APPLICANTS

<p>39. Name of Broadcast Auxiliary frequency coordinator</p>	<p>40. Voice Telephone Number</p>
<p>41. Call Sign of associated Broadcast Station, if any</p>	<p>42. Radio Service Code of associated Broadcast Station</p>

TRANSFER OF CONTROL APPLICANTS

<p>43. Is this a pro forma Transfer of Control? (N) Yes No</p>		
<p>44. Is each station named in item 27 of this filing constructed and operational? (N) Yes No</p>		
<p>45. Name of Transferee</p>		
<p>46. Transferee's Mailing Address, Street</p>		
<p>47. City</p>	<p>48. State</p>	<p>49. Zip code</p>

ENVIRONMENTAL POLICY

50. Would a Commission grant of any proposal in this application or amendment have a significant environmental effect as defined by 47 CFR 1.1307? <small>* If "yes", attach environmental assessment as required by 47 CFR 1.1308 and 47 CFR 1.1311</small>	(<u>N</u>) <u>Yes</u> <u>No</u>
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FOREIGN GOVERNMENT REPRESENTATION

51. Is the applicant a foreign government or the representative of any foreign government?	(<u>N</u>) <u>Yes</u> <u>No</u>
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COMMON CARRIER APPLICANTS - ALIEN OWNERSHIP

52. Is the applicant an alien or the representative of an alien? *	(<u>N</u>) <u>Yes</u> <u>No</u>
53. Is the applicant a corporation organized under the laws of any foreign government? *	(<u>N</u>) <u>Yes</u> <u>No</u>
54. Is the applicant a corporation of which any officer or director is an alien or 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? *	(<u>N</u>) <u>Yes</u> <u>No</u>
55. Is the applicant a corporation directly or indirectly controlled by any other corporation of which any officer or more than one-fourth of the directors are aliens, or 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? <small>* If "yes" attach exhibit explaining nature and extent of alien or foreign ownership or control</small>	(<u>N</u>) <u>Yes</u> <u>No</u>

*If yes, attach exhibit explaining circumstances.

BASIC QUALIFICATIONS

(To be completed by Private Operational Fixed and Common Carrier applicants only)

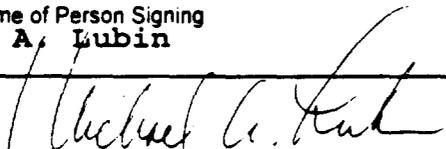
56. Has the applicant or any party to this application or amendment had any FCC station authorization, license or construction permit revoked or had any application for an initial, modification or renewal of FCC station authorization, license, construction permit denied by the Commission? *	(<u>N</u>) <u>Yes</u> <u>No</u>
57. 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? *	(<u>N</u>) <u>Yes</u> <u>No</u>
58. 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? *	(<u>N</u>) <u>Yes</u> <u>No</u>
59. 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? *	(<u>N</u>) <u>Yes</u> <u>No</u>
60. Is this a Common Carrier corporation? <small>If "Yes" attach exhibit showing names, addresses and citizenship of those stockholders owning of 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 applicant as well as any controlling corporations. If this information is currently up to date and on file with the Commission, this additional exhibit is not required with this filing.</small>	(<u>Y</u>) <u>Yes</u> <u>No</u> See Exhibit 1

* If "yes", attach exhibit explaining circumstances.

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 neither the 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 Abuse Act of 1988, 21 U.S.C., Section 862, because of a conviction for possession or distribution of a controlled substance. 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.

*See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes

61. Typed Name of Person Signing Michael A. Lubin	62. Title Vice President & Gen. Counsel
63. Signature 	64. Date July 16, 1998

WILLFUL FALSE STATEMENTS MADE 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).

Exhibit 1

SHAREHOLDERS WITH 10 PERCENT OR GREATER INTEREST IN PATHNET, INC.			
Stockholder	Address	Citizenship	% of Total Shares
Spectrum Equity Investors, L.P.	One International Place Boston, MA 02110	Delaware	19.0656%
Spectrum Equity Investors II, L.P.	One International Place Boston, MA 02110	Delaware	10.1204%
New Enterprise Associates VI, L.P.	1119 Saint Paul Street Baltimore, MD 21202	Delaware	14.6792%
Toronto Dominion Capital (U.S.A.), Inc.	31 W 52nd Street New York, NY 10019	Delaware	10.7526%
Grotech Partners IV, L.P.	9690 Deereco Road Timonium, MD 21093	Delaware	10.7526%
David Schaeffer	1015 31st Street, N.W. Washington, D.C. 20007	USA	10.7632%

DIRECTORS OF PATHNET, INC.	
Director	Business Address
Richard A. Jalkut	1015 31st Street, N.W., Washington, D.C. 20007
David Schaeffer	1015 31st Street, N.W., Washington, D.C. 20007
Peter J. Barris	1015 31st Street, N.W., Washington, D.C. 20007
Kevin J. Maroni	1015 31st Street, N.W., Washington, D.C. 20007
Richard K. Prins	1015 31st Street, N.W., Washington, D.C. 20007
Patrick J. Kerins	1015 31st Street, N.W., Washington, D.C. 20007
Stephen A. Reinstadtler	1015 31st Street, N.W., Washington, D.C. 20007

OFFICERS OF PATHNET, INC.	
Officer	Business Address
David Schaeffer Chairman	1015 31st Street, N.W., Washington, D.C. 20007
Richard A. Jalkut President, CEO	1015 31st Street, N.W., Washington, D.C. 20007
Kevin J. Bennis President, Sales and Marketing	1015 31st Street, N.W., Washington, D.C. 20007
William R. Smedberg Vice President, Finance & Corporate Development	1015 31st Street, N.W., Washington, D.C. 20007
Michael A. Lubin Vice President & General Counsel	1015 31st Street, N.W., Washington, D.C. 20007
Michael L. Brooks Vice President, Network Development	1015 31st Street, N.W., Washington, D.C. 20007

FCC
415
Schedule A

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES
Transmit Site Data

A1. Action requested (<u>M</u>) <u>New Site</u> <u>Modify</u>	A2. Station class FXO	A3. Site name Liberty
A4. Service area or SMSA		

TRANSMIT LOCATION

FIXED POINT, TEMPORARY, OR MOBILE

A5. Street address or other geographic description of fixed location 1 mile south of Liberty on FM 2684.		
A6. City Liberty		
A7. County Liberty		
A8. State TX	A9. Ground elevation AMSL (feet) 17	A10. Overall height of antenna structure (feet) 368
A11. Latitude (DD-MM-SS.S) 30-02-38	A12. Longitude (DDD-MM-SS.S) 94-47-37	A13. North American Datum (NAD) (2) 27 83
A14. Maximum Latitude (DD-MM-SS.S)	A15. Maximum Longitude (DDD-MM-SS.S)	A16. Temporary or Mobile Radius of Operation (miles)
A17. Wide area operations () Nationwide <u>C</u>ontinental United States.		

TRANSMIT ANTENNA STRUCTURE INFORMATION

A18. If antenna will be mounted on an antenna structure which has been registered with the Commission, give the seven digit Registration Number. (None)	
IF REGISTRATION NUMBER IS ENTERED IN ITEM A 18, DO NOT COMPLETE ITEMS A 19 - 23.	
A19. Has the owner of the antenna structure filed an FCC Form 854, Application for Antenna Structure Registration with the Commission ? (N) Yes No	
A20. If Yes, give date FCC Form 854 was filed with the Commission. Month () Year ()	
A21. Give the Figure Number that best describes your antenna arrangement . (3) 1 2 3	
A22. Give the type of antenna structure on which your antenna will be mounted. Tower	
A23. Give the height of the antenna supporting structure, shown in feet. 360	

FCC
415

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES

Schedule B

Frequency Data

B1. Transmit Site (30-02-38) Latitude (94-47-37) Longitude	B2. Path Number (1) of this filing.
--	---------------------------------------

TRANSMITTER	EXISTING FREQUENCY DATA	PROPOSED FREQUENCY DATA
B3. Frequency (MHz)	6286.19	6197.24
Additional Frequency (MHz)	6226.89	6256.54
Additional Frequency (MHz)		
B4. Emission Designator	30M0D7W	30M0D7W
Additional Emission Designator		
Additional Emission Designator		
Additional Emission Designator		
B5. Tx Manufacturer	NEC	NEC
B6. Tx Type Acceptance Number	BSF6P155-S02A	BSF6P155-S02A
B7. Tolerance (%)	0.0003	0.0003
B8. Tx Power Output watts	0.148	0.148
B9. Baseband Signal Type	DIG	DIG
B10. Maximum Channel Capacity	OC-3 (2016 Voice Ch)	OC-3 (2016 Voice Ch)
B11. Digital Modulation Rate	168.56 MB/Sec.	168.56 MB/Sec.
B12. Digital Modulation Type	128 QAM MLCM	128 QAM MLCM
B13. Effective Isotropic Radiated Power (dBm)	70.6	70.6
B14. Automatic Transmitter Power Control?	(Y) Yes No	(Y) Yes No
B15. Tx Line Loss (dB)	4.32	4.32
B16. Receiver Line Loss (dB)	2.90	2.90
B17. Median Receiver Signal Level (dBm)	-39.6	-39.6

**FCC
415**

APPLICATION FOR AUTHORIZATION IN THE MICROWAVE SERVICES

Schedule C

Path DataC1. Purpose of filing (**M**) Add new Path ~~Delete Path~~ Modify Path ~~No Changes to Existing Path Data~~C2. Transmit site (**30-02-38**) Latitude (**94-47-37**) Longitude C3. Path Number (**1**) of this filing.**TRANSMIT ANTENNA****EXISTING PATH DATA****PROPOSED PATH DATA**

C4. Height to center of final radiating element (ft)	356	356
C5. Antenna manufacturer	Andrew	Andrew
C6. Antenna model number	UHX10-59J	UHX10-59J
C7. Antenna gain	43.2	43.2
C8. Beamwidth (degrees)	1.1	1.1
C9. Polarization	V	V
C10. Azimuth to Rx site or passive repeater	264.5	264.5
C11. Elevation angle		
C12. Diversity Tx antenna height (ft)		
C13. Diversity Tx antenna manufacturer		
C14. Diversity Tx antenna model number		
C15. Diversity Tx antenna gain		
C16. Diversity Tx beamwidth (degrees)		
C17. Tx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C18. Tx periscope reflector separation (ft)		

FINAL RECEIVER**EXISTING PATH DATA****PROPOSED PATH DATA**

C19. Receiver site name	Humble	Humble
C20. Call Sign		
C21. Latitude	30-00-29	30-00-29
C22. Longitude	95-12-46	95-12-46
C23. Ground elevation (ft)	68	68
C24. Does path include a passive repeater?	(N) <u>Yes</u> No	(N) <u>Yes</u> No
C25. Height to center of Rx antenna (ft)	236	236
C26. Rx antenna manufacturer	Andrew	Andrew
C27. Rx antenna model number	UHX10-59J	UHX10-59J
C28. Rx antenna gain	43.2	43.2
C29. Diversity Rx antenna height	196	196
C30. Diversity Rx antenna manufacturer	Andrew	Andrew
C31. Diversity Rx antenna model number	UHX10-59J	UHX10-59J
C32. Diversity Rx antenna gain	43.2	43.2
C33. Rx periscope reflector dimensions (ft)	() Height () Width	() Height () Width
C34. Rx periscope reflector separation		

Frequency Data

B1. Transmit Site (30-02-38) Latitude (94-47-37) Longitude

B2. Path Number (2) of this filing

TRANSMITTER	EXISTING FREQUENCY DATA	PROPOSED FREQUENCY DATA
B3. Frequency (MHz)		6256.54
Additional Frequency (MHz)		6197.24
Additional Frequency (MHz)		
B4. Emission Designator		30M0D7W
Additional Emission Designator		
Additional Emission Designator		
Additional Emission Designator		
B5. Tx Manufacturer		NEC
B6. Tx Type Acceptance Number		BSF6P155-S02A
B7. Tolerance (%)		0.0003 ✓
B8. Tx Power Output watts		0.093
B9. Baseband Signal Type		DIG
B10. Maximum Channel Capacity		OC-3 (2016 Voice Ch)
B11. Digital Modulation Rate		168.56 MB/Sec.
B12. Digital Modulation Type		128 QAM MLCM
B13. Effective Isotropic Radiated Power (dBm)		70.6 ✓
B14. Automatic Transmitter Power Control?	() Yes No	(Y) Yes No
B15. Tx Line Loss (dB)		4.32
B16. Receiver Line Loss (dB)		3.73
B17. Median Receiver Signal Level (dBm)		-41.9