

ENGINEERING STATEMENT
RE FCC FORM 312
MAIN FORM - SCHEDULE B
NEW SATELLITE UPLINK TRUCK
ON BEHALF OF
WATERMAN BROADCASTING CORPORATION OF FLORIDA
WBBH-TV, FORT MYERS, FLORIDA

NOVEMBER 2012

COHEN, DIPPELL AND EVERIST, P.C.
CONSULTING ENGINEERS
RADIO AND TELEVISION
WASHINGTON, D.C.

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington)
) ss
District of Columbia)

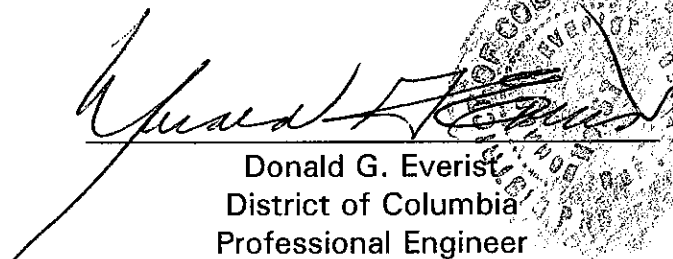
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President, Secretary and Treasurer of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1420 N Street, N.W., Suite One, Washington, D.C. 20005;

That his qualifications are a matter of record in the Federal Communications Commission;

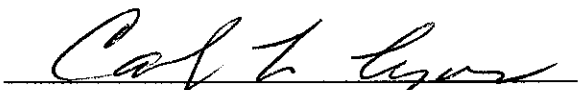
That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.


Donald G. Everist
District of Columbia
Professional Engineer
Registration No. 5714

Subscribed and sworn to before me this 20th day of November, 2012.




Notary Public

My Commission Expires: 2/28/2013

This engineering statement has been prepared on behalf of Waterman Broadcasting Corporation of Florida, licensee of television station WBBH and proposes to construct a transportable transmit Ku-band satellite uplink truck for its DTV operations.

The accompanying FCC Form 312 and Schedule B provide the technical information requested.

The details requested in accordance with Attachment 3 of FCC Public Notice, DA 87-732, are provided below.

1) Applicant:

Waterman Broadcasting Corp / DBA WBBH-TV
3719 Central Avenue
Fort Myers, Fl 33901

Contact Information

Paul Tanner - Truck Operator
239-707-2450

2) Site Location:

500 mile radius centered on N 26° 36' 27", W 81° 51' 48" (NAD-83)

3) Type of Domestic Service:

- | | |
|-----------------------|-------------------------------|
| a) Class of Station - | Vehicle-mounted earth station |
| b) Regulatory Class - | Private |
| c) Type of Facility - | Transmit/Receive |

4) Geographic Coordinates:

N/A – Transportable

-
- 5) Frequency Bands: Transmit 14.0-14.5 GHz
Receive 11.7-12.2 GHz
- 6) Points of Communications: ALSAT
- 7) Site Elevation Above Mean Sea Level: N/A - Transportable
- 8) Frequency Coordination Limits:
- a) Range of Satellite Arc:
- 1) Western Limit - 129°
- 2) Eastern Limit - 70°
- Based on typical operation
- b) Antenna Elevation Angle at:
- 1) Western Limit - 22.7° min
- 2) Eastern Limit - 48.6° min
- c) Earth Station Azimuth:
- 1) Western Limit - 247.4° (true)
- 2) Eastern Limit - 154.9° (true)
- d) Maximum EIRP Density Towards Horizon: -24.64 dBw/4 kHz
- 9) Transmitting Equipment:
- a) Number of high power amplifiers 1
- b) Manufacturer and Model No.: Advantech Wireless, Model
SSPB-KS-2200G-100W
- c) Maximum Transmitter Power Output (watts): 100 watts

-
- 10) Antenna Facilities:
- a) Antenna: Conforms to Section 25.209 of FCC Rules
 - b) Use of antenna: Occasional
 - c) Antenna size: 1.6 meters
 - d) Type of feed: Switchable Wide Band Offset Feed Horn
 - e) Manufacturer and Model No.: AVL Technologies 1610K-11
 - f) Antenna gain in dBi and the frequency at which it is measured:
43.7 dBi min, measured at 11.95 GHz and 45.7 dBi @ 14.25 GHz
 - g) Maximum antenna height above ground: 3.65 meters
- 11) Remote Control Operation: No
- 12) Receiving System Noise Temperature: 40° K @ 30 degrees elevation
- 13) Specifics of Operation
- a) Frequency Limits: 14-14.5GHz, 11.7-12.2 GHz
 - b) Earth Station Antenna Polarization: ±95° for 2 port and 3 port feeds
± 50° for 2 port wideband and 4 port feeds
 - c) Emission Designator: H&V 36MOG7W digital

- | | | |
|----|---|-----------------|
| d) | Maximum EIRP for each RF carrier in the main-beam: | 65.6 dBw |
| e) | Maximum EIRP density for each carrier in main-beam: | |
| | | 26.06 dBw/4 kHz |
| f) | Description of each RF carrier: | MPEG-2/MPEG-4 |

Environmental Assessment

Based on the off-axis radiation characteristics of the 1.6 meter truck-mounted AVL Technologies parabolic uplink antenna from the antenna manufacturer, the proposed operation complies with Section 1.1307 of the FCC Rules as it meets the provisions of the limits adopted by the Commission for Maximum Permissible Exposure (“MPE”)¹ at all locations surrounding the truck at two meters above ground level.

For an antenna input power of 97.7 Watts, the radio frequency power density outside of the 1.6 meter diameter project cylinder in front of the antenna will be less than 5 $\mu\text{W}/\text{cm}^2$.

The antenna is attached atop a van as shown in Exhibit E-1 of this engineering statement. As such, the center of radiation for the antenna is located 3.65 meters (12 feet) above ground level. The radio frequency power density levels behind the antenna system, and at 2 meters above ground level around the van, will be less than 5 $\mu\text{W}/\text{cm}^2$. The transmitting system will be placed in the non-operative mode when authorized personnel are working on the top of the van.

WBBH-TV will ensure that its portable uplink system will be operated in such a way as to contribute less than 1% of the allowable MPE limit to site areas containing non-categorically excluded stations. In order to obtain proper illumination of the satellite, the proposed uplink will be operated such that the major on-axis 1.6 meter cylinder, plus its accompanying 5° cone, will

¹See Appendix A of OET Bulletin No. 65, Edition 97-01, August 1997.

be located well away from buildings or towers. The minimum vertical operating angle to any domestic satellite will be at least 11° above the horizon.

For a 1.6 meter diameter parabolic antenna at 14.25 GHz, an antenna input power of 97.7 watts (49.9 dBm) and antenna gain of 45.7 dBi, the results of the five equations follows:

1.	<u>Extent of Near Field</u>	<u>(Equation)</u>	<u>Page</u>
	$R(nf) = D^2 / 4 \text{ Lambda}$ = 30.4 m (99.7 feet)	(12)	27
2.	<u>Maximum Near Field On-Axis Power Density</u>		
	$S(nf) = 16\eta P / \text{Pi } D^2$ = 12.64 mW/cm ² , for $\eta = 0.65$	(13)	28
3.	<u>Distance to Beginning of Far Field Region</u>		
	$R(ff) = 0.6 D^2 / \text{Lambda}$ = 73 m (239.5 feet)	(16)	29
4.	<u>Transition Region</u>		
	$S=[S(nf) R (nf)] / R$ = 12.64 mW/cm ² @ 30.4 m to 5.41 mW/cm ² at 73.0 m	(17)	29
5.	<u>Far Field</u>		
	$S = PG / 4 \text{ Pi } R^2$ = 5.41 mW/cm ² at 73.1 m		

The following table describes computed on-axis and off-axis radiofrequency radiation levels for the near field, far field, and transition zones based on the formula contained in FCC OET Bulletin No. 65 (Edition 97.01).

<u>Region</u>	<u>Distance</u> meters	<u>On-Axis</u> <u>Radiation</u> <u>Level</u> mW/cm ²	<u>Hazard Assessment</u>
Far Field	169.8	1	Complies with MPE
Far Field	150	1.28	Complies with MPE
Far Field	125	1.85	Complies with MPE
Far Field	100	2.89	Complies with MPE
Far Field	75.9	5	Potential Hazard

Far Field	75	5.14	Potential Hazard
Far Field	73	5.41	Potential Hazard
Transition Field*	70	5.5	Potential Hazard
Transition Field*	60	6.42	Potential Hazard
Transition Field*	50	7.7	Potential Hazard
Transition Field*	45	8.56	Potential Hazard
Transition Field*	40	9.63	Potential Hazard
Transition Field*	35	11	Potential Hazard
Near Field*	30.4	12.64	Potential Hazard
Between Main Reflector and Subreflector*	–	N/A	Potential Hazard
Reflector Surface*		19.44	Per antenna manufacturer
Off-Axis, at least* 1.6 m from antenna beam		0.126	Complies with MPE Per antenna manufacturer

*Assumes aperture efficiency of 65.0%

An environmental assessment (“EA”) is, therefore, categorically excluded under Section 1.1307 of the FCC Rules and Regulations since the applicant indicates:

- (a)(1) to (a)(8) The proposed operation is truck-mounted portable unit and not subject to these subsections.
- (b) Workers and the general public will not be subjected to RF radiation levels in excess of the FCC adopted limits for Maximum Permissible Exposure (MPE) as set forth in Table 1, Limits for MPE of Appendix A of OET Bulletin No. 65, Edition 97-01, August 1997. Authorized personnel will be alerted to areas of the truck where potential radiation levels are in excess of the MPE standard. The transmitting equipment will be placed in the non-operative mode when authorized personnel are on the truck bed. Workers will ensure that uplink operations will contribute less than 1% of the applicable RF exposure limit to the site areas of any non-categorically excluded facilities including AM and FM radio stations, TV stations, LPTV and TV translator stations, FM booster stations with ERP > 100 watts, ITFS, MDS, and MMDS stations with ERP > 200 watts, experimental stations, and other satellite earth stations. The operation will be in full accordance with FCC Public Notice, Report No. DS-1202 entitled, Guidelines for Filing Domestic Satellite Earth Station Applications, Released June 10, 1992.

Environmental Considerations

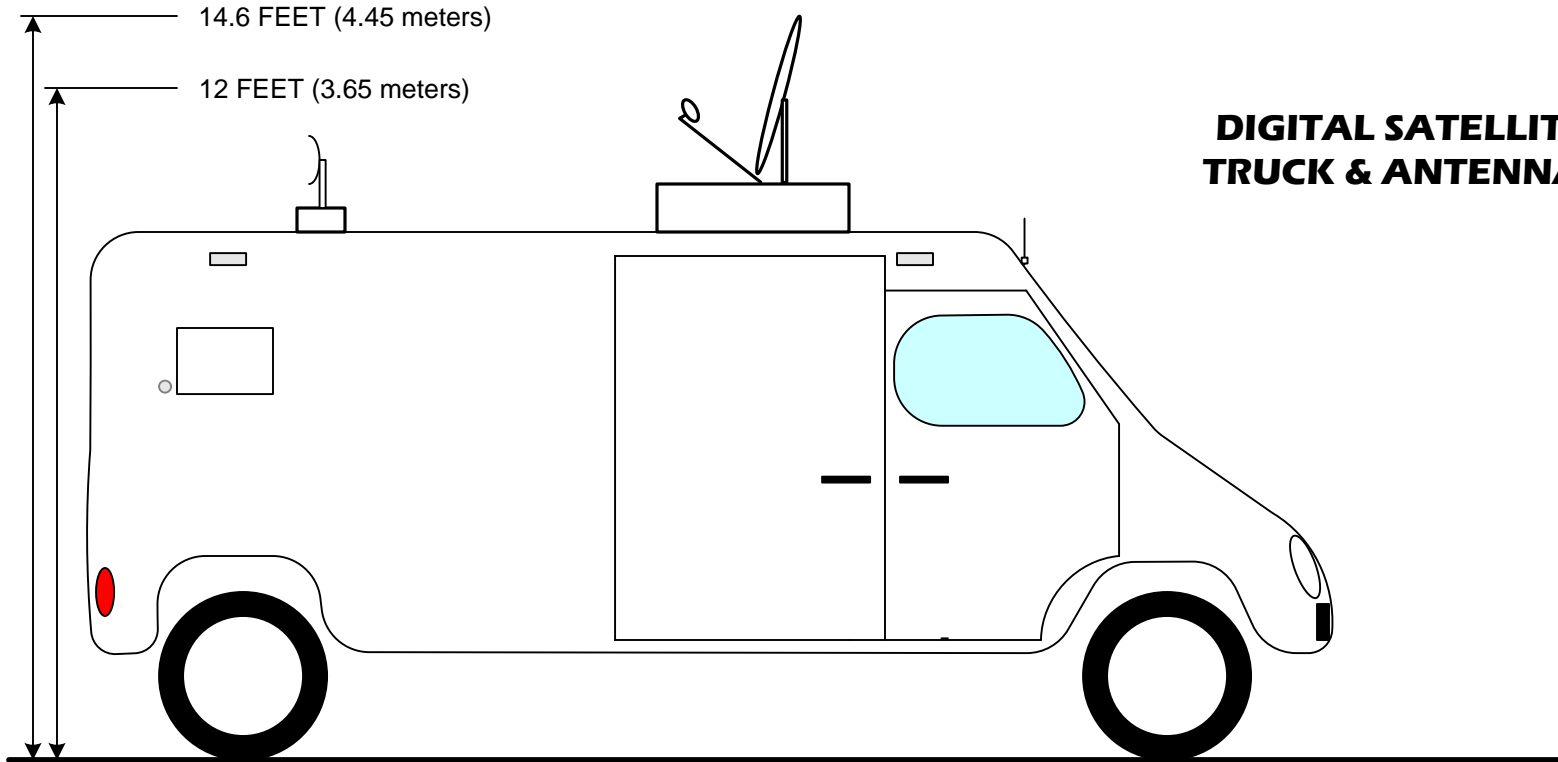
The facility will not be located in any officially designated wilderness area or wildlife preserve. The facility does not protect, shelter, or affect any threatened or endangered species nor will it result in the destruction or adverse modification of proposed or existing critical habitats. The facility will not affect districts, sites, buildings, structures or objects significant in American history, architecture, archaeology, engineering or culture.

The facility will not affect Indian religious sites and is not located in a flood plain. Construction of the facility will not involve significant change in surface features, nor be equipped with high intensity white lights or located in a residential neighborhood.

The station will not cause exposure to workers or the general public to levels of radio frequency radiation in excess of Maximum Permissible Exposure limits.

The applicant anticipates that the facility will meet or exceed MPE objectives of the OET Bulletin No. 65, Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields, Edition 97-01, August 1997. Even so, during operation, all personnel will be restricted from areas where hazardous radiation will be encountered. Equipment shielding and warning signs will be employed as needed.

EXHIBIT E-1
DIGITAL SATELLITE
VAN AND ANTENNA PROFILE
WBBH-TV, FT. MYERS, FLORIDA
SEPTEMBER 2012



**DIGITAL SATELLITE UPLINK
TRUCK & ANTENNA PROFILE**

Approved by OMB
3060-0678

Date & Time Filed:
File Number: ---
Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS

**FCC 312 MAIN FORM
FOR OFFICIAL USE ONLY**

FCC Use Only

APPLICANT INFORMATION

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

New SNG Truck

1-8. Legal Name of Applicant

Name:	Waterman Broadcasting Corporation of Florida	Phone Number:	239-939-2020
DBA Name:		Fax Number:	239-939-6224
Street:	3719 Central Ave	E-Mail:	spontius@water.net
City:	Fort Myers	State:	FL
Country:	USA	Zipcode:	33901 -
Attention:	Steven H Pontius		

9-16. Name of Contact Representative

Name:	Eve R. Pogoriler	Phone Number:	2026625345
Company:	Covington & Burling LLP	Fax Number:	2027785345
Street:	1201 Pennsylvania Avenue, NW	E-Mail:	epogoriler@cov.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20004-
Attention:	Eve R. Pogoriler	Relationship:	Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a.

- a1. Earth Station
(N/A) a2. Space Station

b.

- b1. Application for License of New Station
 b2. Application for Registration of New Domestic Receive-Only Station
(N/A) b3. Amendment to a Pending Application
(N/A) b4. Modification of License or Registration
(N/A) b5. Assignment of License or Registration
(N/A) b6. Transfer of Control of License or Registration
(N/A) b7. Notification of Minor Modification
(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite
(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States
 b10. Other (Please specify)
 b11. Application for Earth Station to Access a Non-U.S. satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States.

17c. Is a fee submitted with this application?

If Yes, complete and attach FCC Form 159.

If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).

Governmental Entity Noncommercial educational licensee

Other (please explain):

17d.

Fee Classification

18. If this filing is in reference to an existing station, enter:

(a) Call sign of station:
Not Applicable

19. If this filing is an amendment to a pending application enter:

(a) Date pending application was filed: (b) File number of pending application:

Not Applicable

Not Applicable

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:

- a. Fixed Satellite
 b. Mobile Satellite
 c. Radiodetermination Satellite
 d. Earth Exploration Satellite
 e. Direct to Home Fixed Satellite
 f. Digital Audio Radio Service
 g. Other (please specify)

21. STATUS: Choose the button next to the applicable status. Choose only one.

Common Carrier Non-Common Carrier

22. If earth station applicant, check all that apply.

- Using U.S. licensed satellites
 Using Non-U.S. licensed satellites

23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:

Connected to a Public Switched Network Not connected to a Public Switched Network N/A

24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).

- a. C-Band (4/6 GHz) b. Ku-Band (12/14 GHz)
 c. Other (Please specify upper and lower frequencies in MHz.)

Frequency Lower: Frequency Upper:

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.

- a. Fixed Earth Station
 b. Temporary-Fixed Earth Station
 c. 12/14 GHz VSAT Network
 d. Mobile Earth Station
(N/A) e. Geostationary Space Station
(N/A) f. Non-Geostationary Space Station
 g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY: Choose only one.

Transmit/Receive Transmit-Only Receive-Only N/A

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)

Not Applicable

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments. Yes No

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30-34.

29. Is the applicant a foreign government or the representative of any foreign government? Yes No

30. Is the applicant an alien or the representative of an alien? Yes No N/A

31. Is the applicant a corporation organized under the laws of any foreign government? Yes No N/A

32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? Yes No N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? Yes No N/A

34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.

BASIC QUALIFICATIONS

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents. Yes No

36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explanation of circumstances. Yes No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explanation of circumstances. Yes No

38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances Yes No

39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhibit, an explanation of the circumstances. Yes No

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of

the officers and directors of the Filer.

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. *See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.* Yes No

42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43. Yes No

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

43. Description. (Summarize the nature of the application and the services to be provided). This application seeks authorization to operate a new satellite news gathering (SNG), Domestic Satellite Temporary-Fixed (Transportable) Earth Station that will be used in conjunction with commercial TV Station WBBH-TV, Fort Myers.

43a. Geographic Service Rule Certification

By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25. A

By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements. B

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

CERTIFICATION

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

44. Applicant is a (an): (Choose the button next to applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing
Bernard E. Waterman

46. Title of Person Signing
President

47. Please supply any need attachments.

Attachment 1:

Attachment 2:

Attachment 3:

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 AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

**SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 - Schedule B:(Technical and Operational Description)**

FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier:	WBBH-TV SNG Truck	E5: Call Sign:	
E2: Contact Name	Paul Tanner	E6: Phone Number:	239-707-2450
E3: Street:		E7: City:	
E4: State		E8: County:	
E10: Area of Operation:		E9: Zip Code	500 miles around
E11. Latitude:	26 ° 36 ' 27.0 " N		
E12. Longitude:	81 ° 51 ' 48.0 " W		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
--	---

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No
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POINTS OF COMMUNICATION

Satellite Name: ALSAT | ALL AUTHORIZED U.S. | ALSAT If you selected OTHER, please enter the following:

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

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: WBBH-TV SNG Truck	
E26. Common Name:	E27. Country:USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)
WBBH-TV SNG Truck	1	1	AVL	1610K-11	1.6	45.7 dBi at 14.25
						45.7 dBi at 14.25

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
1	1.6/1.6	3.65	0.0	0.0	97.7	0.0	50.05

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1	14000 14500	T	Linear and Circular	0	74.9	50.05

E50. Modulation and Services audio, video, data

1	11700 12200	R	Linear and Circular	0	74.9	50.05
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E50. Modulation and Services audio, video and data

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits (MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1	Geostationary	14000 14500	69.0/ 143.0	52.3	31.6	0.0	0.0	0.0

REMOTE CONTROL POINT LOCATION**REMOTE CONTROL POINT LOCATION**

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E61. Call Sign		E65. Phone Number	
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			
E62. Street Address			
E63. City	E67. County	E64/68. State/Country /	E66. Zip Code

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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

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

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