

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility 66978 Service: DCA Call WEDE-CD Channel: 28 (UHF)

ID: Sign:

File **0000028647** 

Number:

FRN: **0004082244** Date **04/21** 

Submitted: /2020

# Applicant Information

#### **Applicant Name, Type, and Contact Information**

| Applicant  | Address  | Phone                | Email                   | Applicant<br>Type |
|--|--|----------------------|-------------------------|-------------------|
| FIRST UNITED, INC. Doing Business As: FIRST UNITED, INC. | Joseph Stroud 1900 SPRING ROAD SUITE 202 OAK BROOK, IL 60523 United States | +1 (708)<br>633-0001 | josephstroud@me.<br>com | Corporation       |

# Reimbursement Contact Name and Information Reimbursement Contact Information

| Applicant      | Address | Phone | Email |
|----------------|---------|-------|-------|
| [Confidential] |         |       |       |

#### Preparer Contact Information

#### **Preparer Contact Name and Information**

| Applicant   | Address  | Phone                 | Email                     |
|---|--|-----------------------|---------------------------|
| Jeremy D Ruck , PE . Consulting Engineer Jeremy Ruck & Associates, Inc. | PO Box 415<br>Canton, IL<br>61520<br>United States | +1 (309) 647-<br>1200 | jeremy@jeremyruck.<br>com |

## Broadcaster Information and Transition Plan

| Question   | Response   |
|--|--|
| Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information. | Yes  |
| Briefly describe transition plan   | Facilities listed above are co-located on Willis Tower west antenna structures with WEDE-CD. WEDE-CD transitions to new channel through antenna replacement, retune of existing transmitter, and installation of new mask filter. Existing line remains. |

#### **Transmitters**

| Section                      | Question                                  | Response |
|------------------------------|---|----------|
| Transmitter Related Expenses | Do you have transmitter related expenses? | Yes      |

## Primary Transmitter

## **Existing Transmitter Information**

| Section                                     | Question   | Response           |
|---|--|--------------------|
| Existing Transmitter Description            | Type of change   | Retune<br>Existing |
|   | Use  | Primary<br>(Main)  |
|   | Ownership  | Owned              |
|   | Owner  | N/A                |
|   | Is this transmitter currently shared with another station? | No                 |
|   | Is this transmitter currently in operating condition?      | Yes                |
| Existing Transmitter  Manufacturer and Type | Manufacturer   | Harris             |

| Model                      | UAX-500A7   |
|----------------------------|-------------|
| Year                       | 2013        |
| Туре                       | Solid State |
| Solid State Cooling        | Air Cooled  |
| Solid State Power capacity | 0.5 kW      |

# Primary Transmitter

# **Retuning Transmitter Costs**

| Section         | Question                                       | Response |
|-----------------|--|----------|
| New IOT Tubes   | Number of Tubes (including accessories) needed | N/A      |
| New Mask Filter | Power  | 1.5 kW   |
|                 | Other Power                                    | N/A      |
| New Exciter     | Is a new exciter needed?                       | No       |

# Primary Transmitter

## **Other Transmitter Costs**

| Section            | Question   | Response |
|--------------------|--|----------|
| Electrical Service | Service Entrance (3 phases 800A 208V)                  | No       |
|                    | Switchgear (industrial 800 amp)                        | No       |
|                    | Transformer (480V)                                     | No       |
|                    | Power  | N/A      |
|                    | Rigid Conduit and Wiring                               | No       |
|                    | Size   | N/A      |
|                    | Length   | N/A      |
|                    | Other Electrical Service                               | No       |
|                    | Description  | N/A      |
| HVAC Service       | Does the replacement transmitter require HVAC Service? | No       |
|                    |  |          |

|   | Туре   | N/A |
|---|--|-----|
|   | Size   | N/A |
|   | Other Size   | N/A |
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leashold improvement? | No  |
|   | Size   | N/A |
| Channel 14 Costs  | Is an RF Consulting Engineer needed?   | N/A |
|   | Is a channel 14 Mask Filer needed?   | N/A |
|   | Is additional field engineering time needed?   | N/A |
|   | Number of Days   | N/A |

#### Primary Transmitter

**Other Transmitter Cost Not Listed** 

Transmitter Information not provided.

#### **Antennas**

| Section                  | Question                              | Response |
|--------------------------|---------------------------------------|----------|
| Antenna Related Expenses | Do you have antenna related expenses? | Yes      |

## **Existing Antenna Information**

| Section                      | Question   | Response                         |
|------------------------------|--|----------------------------------|
| Existing Antenna Description | Type of change   | Purchase<br>New                  |
|                              | Antenna Use  | Primary<br>(Main)                |
|                              | Description of Use   | N/A                              |
|                              | Ownership  | Owned                            |
|                              | Owner  | N/A                              |
|                              | Site   | N/A                              |
|                              | Is the existing antenna shared with another station or stations? | No                               |
|                              | Is the existing antenna directional?                             | Yes                              |
|                              | Is antenna in operating condition?                               | Yes                              |
|                              | Is antenna located on or in close proximity to an antenna farm?  | Yes                              |
| Existing Antenna             | Class  | Class A                          |
| Manufacturer and Type        | Mounting   | Side Mount                       |
|                              | Antenna position in stack  | Not in Stack                     |
|                              | Polarization   | Horizontal                       |
|                              | Туре   | Other                            |
|                              | Number of Stations Supported                                     | N/A                              |
|                              | Number of Panels   | N/A                              |
|                              | Design power capacity in use                                     | N/A                              |
|                              | Lower Limit  | N/A                              |
|                              | Upper Limit  | N/A                              |
|                              | Other Antenna Type   | Single<br>Channel<br>Panel Array |
|                              | ERP: (Effective Radiated Power)                                  | 4.3 kW                           |

| Manufacturer |         |
|--------------|---------|
| Model        | 9552312 |
| Year         | 2004    |

#### **New Antenna Costs**

| Section                 | Question   | Response                         |
|-------------------------|--|----------------------------------|
| New Antenna Description | Use  | Primary<br>(Main)                |
|                         | Description of Use   | N/A                              |
|                         | Change Type  | Purchase<br>New                  |
|                         | Is this a request for upgraded equipment?                            | No                               |
|                         | Ownership  | Owned                            |
|                         | Owner  | N/A                              |
|                         | Is antenna shared?   | No                               |
|                         | Is antenna directional?  | Yes                              |
|                         | Will antenna be located on or in close proximity to an antenna farm? | Yes                              |
| New Antenna             | Class  | Class A                          |
| Manufacturer and Types  | Mounting   | Side Mount                       |
|                         | Antenna position in stack  | Not in Stack                     |
|                         | Polarization   | Horizontal                       |
|                         | Туре   | Other                            |
|                         | Number of Stations Supported   | N/A                              |
|                         | Number of Panels/Bays  | N/A                              |
|                         | Lower Limit  | N/A                              |
|                         | Upper Limit  | N/A                              |
|                         | Design power capacity in use   | N/A                              |
|                         | Other Antenna Type   | Single<br>Channel<br>Panel Array |
|                         | ERP: (Effective Radiated Power)                                      | 2.84 kW                          |
|                         | Manufacturer   |                                  |

| Model                         | TUL-C2-2/4-<br>1 Kit   |
|-------------------------------|--|
| Year                          | 2017   |
| Justification for New Antenna | Existing antenna exhibits undesirable VSWR at repack channel, and does not replicate existing pattern. |

#### **Other Antenna Costs**

| Section Question               |   | Response |
|--------------------------------|---|----------|
| Combiner for Shared<br>Antenna | Do you need a Combiner for a Shared Antenna?  | No       |
|                                | Туре  |          |
|                                | Number of channels supported  | N/A      |
|                                | Frequencies of channels supported   | N/A      |
|                                | Frequency   | N/A      |
|                                | Do you need a combiner output splitter /switcher for dual feed lines?                                       | N/A      |
| Elbow Complex                  | Do you require the separate purchase of the Elbow Complex?  | No       |
|                                | Broadband or Single Channel?  | N/A      |
|                                | Feed Line Size  | N/A      |
| Side Mount Brackets            | Do you require the separate purchase of side mount brackets for a high power antenna?                       | Yes      |
| Pattern Scatter Analysis       | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No       |

| Sweep Test | Do you require the sweep testing of transmission line and antenna? | Yes |
|------------|--|-----|
|------------|--|-----|

#### **Other Antenna Cost Not Listed**

| Name                                 | Description   |
|--------------------------------------|---|
| Antenna delivery to Willis Tower     | Delivery of antenna from installer facility to Willis Tower, and rooftop staging. |
| Antenna handling and storage         | Receiving, handling, and storage of antenna at installer facility.                |
| Antenna reassembly on Willis Rooftop | Assembly of antenna on Willis Tower rooftop.                                      |

| Transmission Seffien                  | Question  | Response |
|---------------------------------------|---|----------|
| Transmission Line<br>Related Expenses | Do you have transmission line related expenses? | Yes      |

# Primary Transmission

# **Existing Transmission Line**

| Section  | Question   | Response            |
|--|--|---------------------|
| Existing Transmission Line Description           | Type of change   | Utilize<br>Existing |
|  | Use  | Primary<br>(Main)   |
|  | Description of Use   | N/A                 |
|  | Ownership  | Owned               |
|  | Owner  | N/A                 |
|  | Site   | N/A                 |
|  | Is the existing transmission line shared with another station or stations? | No                  |
|  | Is Transmission Line in operating condition?                               | Yes                 |
| Existing Transmission Line Manufacturer and Type | Manufacturer   | Andrew              |
|  | Туре   | Flexible Air        |
|  | Diameter   | 1 5/8 inches        |
|  | Other Diameter   | N/A                 |
|  | Segment Length   | N/A                 |
|  | Other Segment Length   | N/A                 |
|  | Number of parallel runs  | 1                   |
|  | Length   | 250 feet<br>per run |

# Primary Transmission

# Other Transmission Line Expenses Not Listed

| n <mark>Laine</mark>                      | Description  |
|---|--|
| Transmission line routing change material | Connector kit an mounting hardware for relocation of existing transmission line due to antenna change. |
| Transmission line routing change          | Labor for minor adjustment in transmission line routing due to required antenna replacement.           |

# Tower Equipment And Rigging Costs

| Section                                     | Question  | Response |
|---|---|----------|
| Tower Equipment or<br>Rigging Costs Changes | Do you have tower equipment or rigging costs changes? | Yes      |

## Primary Tower

# **Existing Tower**

| Section   | Question  | Response             |
|---|---|----------------------|
| Existing Tower Description                      | Type of change  | Modify<br>Existing   |
|   | Tower Use   | Primary<br>(Main)    |
|   | Description of Use                                      | N/A                  |
|   | Ownership   | Leased               |
|   | Is this tower consider Complex?                         | Located on Building  |
|   | Is this tower currently shared with any other stations? | Yes                  |
|   | One or more FM, AM or TV radio broadcaster(s)           | Yes                  |
|   | Others Types of Users                                   | No                   |
|   | Is tower documented for structural analysis?            | No                   |
|   | Is tower compliant with Rev G?                          | No                   |
| Existing Tower Structure                        | Do you have a tower registration number?                | Yes                  |
| Registration                                    | ASR Number  | 1032959              |
| Coordinates (NAD83 (<br>North American Datum of | Latitude (NAD83)  | 41° 52'<br>44.1" N-  |
| 1983))  | Longitude (NAD83)                                       | 087° 38'<br>10.2" W- |
|   | Overall Structure Height                                | 1729.97 feet         |
|   | Support Structure Height                                | 1435.35 feet         |

| Ground Elevation Above Mean Sea Level (AMSL) | 595.14 feet                      |
|--|----------------------------------|
| Structure Type                               | BTWR -<br>Building<br>with Tower |
| Tower Owner                                  | 233<br>Broadcast,<br>LLC         |
| Date Constructed                             | 01/01/2002                       |

#### FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

| Facility ID | Call Sign | Service |
|-------------|-----------|---------|
| 70119       | WSNS-TV   | DTV     |
| 48772       | WPWR-TV   | DTV     |
| 47905       | WMAQ-TV   | DTV     |
| 72115       | WGN-TV    | DTV     |
| 71428       | WCIU-TV   | DTV     |
| 168662      | WMEU-CD   | DTV     |
| 10802       | WTTW      | DTV     |
| 28621       | WJMK      | FM      |
| 22211       | WFLD      | DTV     |
| 9613        | WBBM-FM   | FM      |
| 10801       | WFMT      | FM      |
| 9617        | WBBM-TV   | DTV     |
| 71425       | WWME-CD   | DTV     |

## Primary Tower

#### **Tower Modification Costs**

| Section              | Question   | Response                          |
|----------------------|--|-----------------------------------|
| Engineering Study    | Please what type of engineering study is required, if any: | Study needed for documented tower |
| Tower Reinforcements | Please select whether tower reinforcements are needed:     | Minor<br>Reinforcements<br>needed |

## Primary Tower

# **Tower Rigging Costs**

| Section                         | Question                          | Response            |
|---------------------------------|-----------------------------------|---------------------|
| Tower Rigging Costs             | Complex Tower                     | Located on Building |
| Helicopter Services<br>Required | Are helicopter services required? | No                  |

#### Primary Tower

## **Other Tower Expenses Not Listed**

Information not provided.

## Outside Professional

| Section  | Question   | Response   |
|--|--|--|
| Services Costs Outside Project Management Services | Do you require outside project management services?                          | Yes  |
|  | Number of Hours  | 595  |
|  | Explanation  | WEDE-CD does not have sufficient resource capacity and expertise in house to handle all of the reimbursement filing, expense tracking, vendor coordination, progress reporting, budget creation, budget review, budget tracking, daisy- chain monitoring, et al. |
| Outside RF consulting<br>Engineering Services      | Perform engineering study for new channel assignment and antenna development | Yes  |
|  | Prepare engineering section of Form FCC Construction Permit Application      | Yes  |
|  | For Auxiliary Facility   | No   |
|  | For Main Facility  | Yes  |
|  | Prepare engineering section of Form FCC License to Cover Application         | Yes  |
|  | For Auxiliary Facility   | No   |
|  | For Main Facility  | Yes  |
|  | Prepare request for Special Temporary<br>Authority                           | No   |

|  | Quantity   | N/A |
|--|--|-----|
|  | Quantity   | N/A |
|  | Do you have Distributed Transmission System engineering services?                          | N/A |
|  | Critical Facility  | N/A |
|  | Terrain-Shielded Facility  | N/A |
| Attorney and Other Outside Consulting Services | Prepare and file Form FCC Construction Permit Application                                  | Yes |
| Services                                       | For Auxiliary Facility   | No  |
|  | For Main Facility  | Yes |
|  | Prepare and file Form FCC License to Cover Application                                     | Yes |
|  | For Auxiliary Facility   | No  |
|  | For Main Facility  | Yes |
|  | Prepare request for Special Temporary Authority  | Yes |
|  | Quantity   | 1   |
|  | NEPA Section 106 environmental review  | No  |
|  | Environmental Assessment   | No  |
|  | ASR Modification   | No  |
|  | FAA Consultation (including preparation of FAA Form 7460)                                  | No  |
|  | Negotiation of Lease and other Matter for Shared Locations                                 | Yes |
|  | Prepare or Review FCC Form 399 for Reimbursement   | Yes |
|  | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| RF Field Engineering<br>Services               | Comprehensive coverage verification via field study  | No  |
|  | RF exposure measurements   | Yes |
|  | Additional Field Engineering Service   | No  |
|  |  |     |

| Number of Days | N/A |
|----------------|-----|
| Justification  | N/A |

#### Outside Professional

# Other Professional Services Expenses Not Listed

| al | Services Costs                               | Description  |
|----|--|--|
|    | Required Willis Tower RF Safety Coordination | Required RF safety coordination during antenna change. |

# Other Expenses

| Section                         | Question   | Response |
|---------------------------------|--|----------|
| AM Pattern Disturbance          | Is an Impact Study needed?   | No       |
|                                 | Is Remediation needed?   | No       |
| Facility Expenses               | Name   | N/A      |
|                                 | Other Distributed Transmission System<br>Expenses Not listed   | N/A      |
|                                 | Name   | N/A      |
|                                 | Is Notification of a Medical Facility required as a result of DTV broadcasting?                                      | Yes      |
| Permit and Filing Costs         | Local Zoning   | No       |
|                                 | Non-zoning permits   | Yes      |
|                                 | BLM or NFS Coordination  | No       |
|                                 | FCC Construction Permit Minor Change   | Yes      |
|                                 | FCC License to Cover Application   | Yes      |
|                                 | FCC Special Temporary Authority Application  | Yes      |
| Other Miscellaneous<br>Expenses | Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?        | Yes      |
|                                 | Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs? | Yes      |
|                                 | Does this relocation require Equipment Storage?  | No       |
|                                 | Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?     | Yes      |
|                                 | Does this relocation require MVPD  Notification of a Channel Change?   | Yes      |

Other Expenses Not Listed

**Expenses** Information not provided.

# **Cost** Information

#### **Transmitters**

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

| Description                                 | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification | Actual<br>Cost | Actual Cost<br>Justification |
|---|--------------------------------|-------------------|------------------------------------|----------------|------------------------------|
| Primary<br>Transmitter<br>UAX-500A7         | \$108,230.00                   | \$52,800.00       |                                    | \$0.00         |                              |
| UHF and<br>VHF - minor<br>banding<br>issues | \$105,200.00                   | \$50,000.00       | N/A                                | N/A            | N/A                          |
| 1.5 kW mask<br>filter                       | \$3,030.00                     | \$2,800.00        | N/A                                | N/A            | N/A                          |
| Sub-total                                   | \$108,230.00                   | \$52,800.00       | N/A                                | \$0.00         | N/A                          |
| Total for all systems                       | \$998,920.00                   | \$606,870.50      | N/A                                | \$47,065.46    | N/A                          |

#### Components

Information not provided.

# **Cost Information**

#### **Antennas**

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

| Description                                   | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated Cost Justification  | Actual<br>Cost | Actual Cost<br>Justification |
|---|--------------------------------|-------------------|---|----------------|------------------------------|
| Primary<br>Antenna TUL-<br>C2-2/4-1 Kit       | \$50,530.00                    | \$48,900.00       |   | \$7,161.76     |                              |
| Antenna<br>reassembly<br>on Willis<br>Rooftop | \$5,000.00                     | \$5,000.00        | Reassembly of antenna on rooftop in preparation for installation.   | N/A            | N/A                          |
| Antenna<br>delivery to<br>Willis Tower        | \$10,000.00                    | \$10,000.00       | Delivery of antenna from installation contractor facility to Willis Tower. Includes shipping to Willis Tower from contractor yard, unloading antenna at dock, and transport to rooftop of building. After hours work due to size and elevators. | N/A            | N/A                          |

| UHF - Lower Power Side Mount, Class A One Station antenna basic         \$26,300.00         \$25,000.00         N/A         \$7,161.76         N/A           Sweep test of existing antenna         \$6,730.00         \$6,400.00         N/A         N/A         N/A           Antenna handling and storage         \$2,500.00         \$2,500.00         Receiving and handling of antenna at installation contractor facility. Includes material storage fees.         N/A         N/A           Sub-total         \$50,530.00         \$48,900.00         N/A         \$7,161.76         N/A           Total for all systems         \$998,920.00         \$606,870.50         N/A         \$47,065.46         N/A |   |              |              |  |             |     |
|--|---|--------------|--------------|--|-------------|-----|
| Antenna         \$2,500.00         \$2,500.00         Receiving and handling of antenna at installation contractor facility. Includes material storage fees.         N/A         N/A           Sub-total         \$50,530.00         \$48,900.00         N/A         \$7,161.76         N/A           Total for all         \$998,920.00         \$606,870.50         N/A         \$47,065.46         N/A  | Power Side<br>Mount, Class<br>A One<br>Station<br>antenna | \$26,300.00  | \$25,000.00  | N/A  | \$7,161.76  | N/A |
| handling and storage and handling of antenna at installation contractor facility. Includes material storage fees.  Sub-total \$50,530.00 \$48,900.00 N/A \$7,161.76 N/A  Total for all \$998,920.00 \$606,870.50 N/A \$47,065.46 N/A   | of existing   | \$6,730.00   | \$6,400.00   | N/A  | N/A         | N/A |
| <b>Total for all</b> \$998,920.00 \$606,870.50 N/A \$47,065.46 N/A   | handling and  | \$2,500.00   | \$2,500.00   | and handling of antenna at installation contractor facility. Includes material storage | N/A         | N/A |
|  | Sub-total   | \$50,530.00  | \$48,900.00  | N/A  | \$7,161.76  | N/A |
|  |   | \$998,920.00 | \$606,870.50 | N/A  | \$47,065.46 | N/A |

# Components

| Actual Information Description  | File Name                      |  |
|---|--------------------------------|--|
| Antenna reassembly on Willis Rooftop                                  | Information not provided.      |  |
| Antenna delivery to Willis Tower                                      | Information not provided.      |  |
| UHF - Lower Power Side<br>Mount, Class A One Station<br>antenna basic | Component Description: Amount: | Antenna TUL-C2-<br>2/4-1 Kit<br>\$7,161.76 |
| Sweep test of existing antenna  | Information not provided.      |  |
| Antenna handling and storage  | Information not provided.      |  |

# **Cost** Information

#### **Transmission Line**

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

| Description                               | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification  | Actual<br>Cost | Actual Cost<br>Justification |
|---|--------------------------------|-------------------|---|----------------|------------------------------|
| Primary<br>Transmission<br>Line           | \$6,000.00                     | \$6,000.00        |   | \$150.00       |                              |
| Transmission line routing change          | \$4,000.00                     | \$4,000.00        | Labor for rerouting of existing transmission line due to antenna change.  | \$150.00       | N/A                          |
| Transmission line routing change material | \$2,000.00                     | \$2,000.00        | Cable refit kits and connectors, and other hardware for transmission line relocation due to new antenna installation. | N/A            | N/A                          |
| Sub-total                                 | \$6,000.00                     | \$6,000.00        | N/A   | \$150.00       | N/A                          |
| Total for all systems                     | \$998,920.00                   | \$606,870.50      | N/A   | \$47,065.46    | N/A                          |

## Components

| Actual Information Description   | File Name                       |                                       |
|----------------------------------|---------------------------------|---------------------------------------|
| Transmission line routing change | Component Description:  Amount: | Willis-Repack<br>Expenses<br>\$150.00 |
|                                  |                                 |                                       |

| Transmission line routing |
|---------------------------|
| change material           |

Information not provided.

# **Cost Information**

#### **Tower Equipment and Rigging Costs**

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

|   |                             |                   | Estimated   |                |                              |
|---|-----------------------------|-------------------|---|----------------|------------------------------|
| Description   | Predetermined Cost Estimate | Estimated<br>Cost | Cost<br>Justification   | Actual<br>Cost | Actual Cost<br>Justification |
| Primary<br>Tower BTWR   | \$591,600.00                | \$245,000.00      |   | \$2,218.75     |                              |
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas) | \$421,000.00                | \$80,000.00       | N/A   | N/A            | N/A                          |
| Structural<br>engineering<br>tower load<br>study for well<br>documented<br>tower      | \$12,600.00                 | \$15,000.00       | Willis Tower location. Structural analysis for antenna change on west bridge.                                   | \$2,218.75     | N/A                          |
| Minor tower reinforcement /modifications  | \$158,000.00                | \$150,000.00      | Cost expected to include design and fabrication of modified antenna mounting brackets for west bridge location. | N/A            | N/A                          |
| Sub-total   | \$591,600.00                | \$245,000.00      | N/A   | \$2,218.75     | N/A                          |
| Total for all systems   | \$998,920.00                | \$606,870.50      | N/A   | \$47,065.46    | N/A                          |

## Components

| Information not provided.       |   |
|---------------------------------|---|
|                                 |   |
| Component Description:  Amount: | WEDE-CD-410-<br>Existing Primary<br>Tower - Tower<br>Load Study,<br>Documented<br>Tower<br>\$2,218.75 |
|                                 | ΨΣ,Σ10.10   |
|                                 |   |

# **Cost Information**

#### **Outside Professional Services**

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

| Description  | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated Cost Justification   | Actual<br>Cost | Actual Cost<br>Justification |
|--|--------------------------------|-------------------|--|----------------|------------------------------|
| Outside<br>Professional<br>Services  | \$157,370.00                   | \$169,575.50      |  | \$37,334.95    |                              |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | \$3,680.00                     | \$2,427.00        | Please see WEDE Attorney - STA Revision Justification Cover Letter                             | \$2,427.00     | N/A                          |
| Required<br>Willis Tower<br>RF Safety<br>Coordination                        | \$9,440.00                     | \$9,440.00        | Cost assumes four nights of work, plus related expenses, per diem, and mileage.                | N/A            | N/A                          |
| RF Exposure<br>Measurements  | \$21,050.00                    | \$12,500.00       | Required RFR survey of Willis Tower rooftops following antenna change.                         | N/A            | N/A                          |
| Attorney Fees - Negotiation of lease and other matters for shared locations  | \$4,210.00                     | \$10,115.00       | per Estimated Cost Justification WEDE-CD- 550- Attorney - Negotiate Lease and Other Matters v2 | \$10,115.00    | N/A                          |

| Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application    | \$2,365.00 | \$2,250.00  | N/A  | N/A         | N/A |
|--|------------|-------------|--|-------------|-----|
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | \$5,260.00 | \$16,668.50 | Per Estimated Cost Justification WEDE-CD- 550- Attorney - Construction Permit Application v0 | \$12,901.50 | N/A |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application      | \$1,580.00 | \$1,500.00  | N/A  | N/A         | N/A |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application   | \$3,155.00 | \$3,000.00  | N/A  | N/A         | N/A |
| Perform engineering study for new channel assignment and antenna development           | \$7,360.00 | \$7,000.00  | N/A  | \$1,112.50  | N/A |

| Address transition timing and coordination issues w/ other stations and wireless | \$2,630.00   | \$2,500.00   | N/A   | N/A         | N/A |
|--|--------------|--------------|---|-------------|-----|
| Prepare and or review reimbursement form   | \$2,630.00   | \$2,500.00   | N/A   | \$282.50    | N/A |
| Project<br>management<br>of the transition                                       | \$94,010.00  | \$99,675.00  | Per Widelity<br>Strategic<br>Support<br>Quote | \$10,496.45 | N/A |
| Sub-total  | \$157,370.00 | \$169,575.50 | N/A   | \$37,334.95 | N/A |
| Total for all systems  | \$998,920.00 | \$606,870.50 | N/A   | \$47,065.46 | N/A |

# Components

| Actual Information Description   | File Name                       |  |
|--|---------------------------------|--|
| Attorney Fees - Prepare and File request for Special Temporary Authorization | Component Description:  Amount: | WEDE-CD-550-<br>Attorney - Special<br>Temporary<br>Authority<br>\$2,427.00 |
| Required Willis Tower RF<br>Safety Coordination                              | Information not provided.       |  |
| RF Exposure Measurements   | Information not provided.       |  |

| Attorney Fees - Negotiation of lease and other matters                                 |                                |                              |
|--|--------------------------------|------------------------------|
| for shared locations   | Component Description: Amount: | Legal Services<br>\$843.50   |
|  | Component Description: Amount: | Legal Services<br>\$373.00   |
|  | Component Description:         | For Services<br>Rendered     |
|  | Amount:                        | \$461.50                     |
|  | Component Description:         | For Services                 |
|  | Amount:                        | Rendered<br>\$3,926.50       |
|  | Component Description: Amount: | Legal Services<br>\$4,510.50 |
| Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application     | Information not provided.      |                              |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | Component Description: Amount: | Legal Fees<br>\$270.00       |
|  | Component Description: Amount: | Legal Fees<br>\$912.00       |
|  | Component Description: Amount: | Legal Fees<br>\$948.50       |
|  |                                |                              |

Component Description: Amount:

Legal Fees \$1,065.00

**Component Description:** 

Amount:

Legal Fees \$135.00

**Component Description:** 

Amount:

Legal Fees \$760.00

**Component Description:** 

Amount:

Legal Fees \$291.00

**Component Description:** 

Amount:

Legal Fees \$1,926.50

**Component Description:** 

Amount:

Legal Fees \$1,549.50

**Component Description:** 

Amount:

Legal Fees \$252.00

**Component Description:** 

Amount:

Legal Fees \$449.50

**Component Description:** 

Amount:

Legal Fees \$78.00

**Component Description:** 

Amount:

Legal Fees \$469.00

|   | Component Description:  Amount: | WEDE-CD-550-<br>Attorney -<br>Construction<br>Permit Application<br>\$6,771.00 |
|---|---------------------------------|--|
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application             | Information not provided.       |  |
| Prepare engineering section<br>of FCC Form 2100 (main),<br>Construction Permit<br>Application | Information not provided.       |  |
| Perform engineering study<br>for new channel assignment<br>and antenna development            | Component Description: Amount:  | WEDE Repack - 9<br>/10/2019 -<br>Engineering<br>\$550.00                       |
|   | Component Description: Amount:  | Willis-Repack<br>Expense<br>\$562.50   |
| Address transition timing and coordination issues w/ other stations and wireless              | Information not provided.       |  |
| Prepare and or review reimbursement form  | Component Description: Amount:  | For Services<br>Rendered<br>\$191.00   |
|   | Component Description: Amount:  | Legal Services<br>\$91.50  |

Project management of the transition

**Component Description:** Project

Management

**Amount:** \$115.00

Component Description: Project

Management

**Amount:** \$3,802.90

Component Description: Project

Management

**Amount:** \$143.75

Component Description: Project

Management

**Amount:** \$1,590.00

Component Description: Project

Management

**Amount:** \$875.00

Component Description: Project

Management

**Amount:** \$3,969.80

# **Cost Information**

#### **Other Expenses**

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

| Description   | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification  | Actual<br>Cost | Actual Cost<br>Justification |
|---|--------------------------------|-------------------|---|----------------|------------------------------|
| Other<br>Expenses   | \$85,190.00                    | \$84,595.00       |   | \$200.00       |                              |
| MVPD<br>Notification of<br>Channel<br>Change              | \$5,000.00                     | \$5,000.00        | N/A   | N/A            | N/A                          |
| Develop and air announcement of upcoming channel change   | \$5,000.00                     | \$5,000.00        | N/A   | N/A            | N/A                          |
| Equipment Delivery and Handling Charges                   | \$30,000.00                    | \$30,000.00       | Based on delivery and staging of equipment, and subsequent transfer to Willis Tower from installation contractor. | N/A            | N/A                          |
| DTV Medical<br>Facility<br>Notification                   | \$11,550.00                    | \$11,000.00       | N/A   | N/A            | N/A                          |
| FCC Filing Fees - Special Temporary Authorization request | \$195.00                       | \$200.00          | Please see<br>attached<br>combined<br>document<br>for Cooley<br>Invoice<br>2115254.                               | \$200.00       | N/A                          |

| Disposal Costs (for equipment and other waste, net of any salvage value) | \$30,000.00  | \$30,000.00  | Removal of<br>old<br>antenna<br>and<br>associated<br>material<br>from Willis<br>Tower. | N/A         | N/A |
|--|--------------|--------------|--|-------------|-----|
| Non-zoning permits   | \$2,000.00   | \$2,000.00   | City of<br>Chicago<br>permitting   | N/A         | N/A |
| FCC Filing Fees - Form 2100 license to cover application                 | \$335.00     | \$325.00     | N/A  | N/A         | N/A |
| FCC Filing Fees - Form 2100 minor change CP application                  | \$1,110.00   | \$1,070.00   | N/A  | N/A         | N/A |
| Sub-total  | \$85,190.00  | \$84,595.00  | N/A  | \$200.00    | N/A |
| Total for all systems  | \$998,920.00 | \$606,870.50 | N/A  | \$47,065.46 | N/A |

# Components

| Actual Information Description                          | File Name                 |
|---|---------------------------|
| MVPD Notification of<br>Channel Change                  | Information not provided. |
| Develop and air announcement of upcoming channel change | Information not provided. |
| Equipment Delivery and Handling Charges                 | Information not provided. |
| DTV Medical Facility<br>Notification                    | Information not provided. |

| FCC Filing Fees - Special Temporary Authorization                        |                               |                          |  |
|--|-------------------------------|--------------------------|--|
| request  | <b>Component Description:</b> | WEDE-CD-610-             |  |
|  |                               | FCC Filing Fee -         |  |
|  |                               | Special                  |  |
|  |                               | Temporary                |  |
|  |                               | Authority                |  |
|  | Amount:                       | Application-<br>\$200.00 |  |
|  | Amount.                       | Ψ200.00                  |  |
| Disposal Costs (for equipment and other waste, net of any salvage value) | Information not provided.     |                          |  |
| Non-zoning permits   | Information not provided.     |                          |  |
| FCC Filing Fees - Form 2100 license to cover application                 | Information not provided.     |                          |  |
| FCC Filing Fees - Form 2100 minor change CP application                  | Information not provided.     |                          |  |

# Cost Information

#### **Grand Total**

|                       | Predetermined<br>Cost Estimate | Estimated Cost | Actual Cost |
|-----------------------|--------------------------------|----------------|-------------|
| Total for all systems | \$998,920.00                   | \$606,870.50   | \$47,065.46 |

| Reimbursem | enrestiatus  | Response |
|------------|--|----------|
|            | The facility has ceased operating on its pre-<br>auction channel.  | Yes      |
|            | Construction of final facilities or all necessary modifications are complete.  | No       |
|            | All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator. | No       |

Section Question Response

# Submission of Estimated Expenses Statements

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), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.

- 1. The Authorized
  Person signing
  below certifies that he
  /she is authorized to
  submit this TV
  Broadcaster
  Relocation Fund
  Reimbursement
  Form on behalf of
  the above-named
  entity.
- 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.
- 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.

- 4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
- 7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Joseph Stroud President

04/21/2020

Section Question Response

# Submission of Actual Cost Documentation Statements

WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (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), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).

- 1. The Authorized
  Person signing
  below certifies and
  represents that he
  /she is authorized to
  submit this TV
  Broadcaster
  Relocation Fund
  Reimbursement
  Form on behalf of
  the above-named
  entity.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Joseph Stroud President

04/21/2020

#### **Attachments**