



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **11909** | Service: **DTV** | Call **WFOX-TV** | Channel: **14 (UHF)** |  
ID:  
File **0000027858**  
Number:  
FRN: **0022027601** | Date **06/28**  
Submitted: **/2018**

## Applicant Information

### Applicant Name, Type, and Contact Information

| Applicant                               | Address   | Phone             | Email                            | Applicant Type            |
|---|---|-------------------|----------------------------------|---------------------------|
| <b>COX TELEVISION JACKSONVILLE, LLC</b> | General Manager<br>11700 CENTRAL PARKWAY,<br>UNIT 2<br>JACKSONVILLE,<br>FL 32224<br>United States | +1 (904) 996-0400 | generalmanager@actionnewsjax.com | Limited Liability Company |

## Reimbursement Contact Name and Information

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

## Preparer Contact Information

### Preparer Contact Name and Information

| Applicant   | Address   | Phone             | Email                    |
|---|---|-------------------|--------------------------|
| <b>James Patrick McGue</b><br><i>Cox Television Jacksonville, LLC</i> | J McGue<br>11700 Central Parkway, Unit 2<br>Jacksonville, FL 32277<br>United States | +1 (904) 928-8020 | jmcgue@actionnewsjax.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   | Site test for Ch. 14. Remediate PIM. Install three channel combiner (14, 19, 32).<br>Replace DCX 2H Ch32, with Gates ULXTE-40 Ch14 w/ PLMR filter Optimize line and antenna for 14, 19 & 32 Convert existing Gates ULXT Ch32 to Ch14 w/PLMR filter. |

**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 Existing |
|  | Use  | Primary (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   | Gates           |
|  | Model  | ULXT            |

|                            |               |
|----------------------------|---------------|
| Year                       | 2015          |
| Type                       | Solid State   |
| Solid State Cooling        | Liquid Cooled |
| Solid State Power capacity | 35.1 kW       |

## Primary Transmitter

### Retuning Transmitter Costs

| Section         | Question                                       | Response |
|-----------------|--|----------|
| New IOT Tubes   | Number of Tubes (including accessories) needed | N/A      |
| New Mask Filter | Power  | 60 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       |
|                    | Type   | N/A      |

|  |   |     |
|--|---|-----|
|  | Size  | N/A |
|  | Other Size  | N/A |
| <b>Transmitter Building Addition/Modification or Leasehold Improvement</b> | Does the Transmitter Building require an addition, modification, other leasehold improvement? | No  |
|  | Size  | N/A |
| <b>Channel 14 Costs</b>  | 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**  
Information not provided.

**Auxiliary  
Transmitter****Add Transmitter Information**

| Section   | Question   | Response                 |
|---|--|--------------------------|
| <b>Existing Transmitter<br/>Description</b>           | Type of change   | Purchase<br>New          |
|   | Use  | Auxiliary<br>(Backup)    |
|   | Description of Use   | backup                   |
|   | Ownership  | Owned                    |
|   | Owner  | N/A                      |
|   | Site   | N/A                      |
|   | Is this transmitter currently shared with another station? | No                       |
|   | Is this transmitter currently in operating condition?      | Yes                      |
| <b>Existing Transmitter<br/>Manufacturer and Type</b> | Manufacturer   |                          |
|   | Model  | DCX2H                    |
|   | Year   | 2001                     |
|   | Type   | Inductive<br>Output Tube |
|   | IOT Power Type   | Two                      |
|   | Power Capacity   | 40 kW                    |

**Auxiliary  
Transmitter****New Transmitter Costs**

| Section         | Question                                  | Response  |
|-----------------|---|---|
| New Transmitter | Use                                       | Auxiliary<br>(Backup)   |
|                 | Change Type                               | Purchase<br>New   |
|                 | Is this a request for upgraded equipment? | Yes   |
|                 | Manufacturer                              |   |
|                 | Model                                     | ULXTE-50  |
|                 | Transmitter Type                          | Solid State   |
|                 | Solid State Cooling                       | Liquid Cooled   |
|                 | Solid State Power capacity                | 29.1 kW   |
|                 | Justification for New Transmitter         | 16 year old<br>Comark tube<br>transmitter is<br>not possible<br>to retune per<br>manufacturer;<br>see<br>attachment |

**Auxiliary  
Transmitter****Other Transmitter Costs**

| Section            | Question                              | Response |
|--------------------|---------------------------------------|----------|
| Electrical Service | Service Entrance (3 phases 800A 208V) | No       |
|                    | Switchgear (industrial 800 amp)       | No       |
|                    | Transformer (480V)                    | Yes      |
|                    | Power                                 | 150 kVA  |
|                    | Rigid Conduit and Wiring              | No       |
|                    | Size                                  | N/A      |
|                    | Length                                | N/A      |
|                    | Other Electrical Service              | Yes      |

|  |   |                                    |
|--|---|------------------------------------|
|  | Description   | 400A 208 service, conduit & wiring |
| <b>HVAC Service</b>  | Does the replacement transmitter require HVAC Service?  | No                                 |
|  | Type  | N/A                                |
|  | Size  | N/A                                |
|  | Other Size  | N/A                                |
| <b>Transmitter Building Addition/Modification or Leasehold Improvement</b> | Does the Transmitter Building require an addition, modification, other leasehold improvement? | No                                 |
|  | Size  | N/A                                |
| <b>Channel 14 Costs</b>  | 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  | 10                                 |

**Auxiliary Transmitter**      **Other Transmitter Cost Not Listed**  
Information not provided.

**Antennas**

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

**Primary  
Antenna****Existing Antenna Information**

| Section                                   | Question   | Response           |
|---|--|--------------------|
| Existing Antenna<br>Description           | Type of change   | Retune<br>Existing |
|   | 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? | Yes                |
|   | Is the existing antenna directional?                             | Yes                |
|   | Is antenna in operating condition?                               | Yes                |
|   | Is antenna located on or in close proximity to an antenna farm?  | No                 |
| Existing Antenna<br>Manufacturer and Type | Class  | Full Power         |
|   | Mounting   | Top Mount          |
|   | Antenna position in stack  | Bottom             |
|   | Polarization   | Horizontal         |
|   | Type   | Broadband<br>Panel |
|   | Number of Stations Supported                                     | 2                  |
|   | Number of Panels   | 5                  |
|   | Design power capacity in use                                     | 50.0 %             |
|   | Lower Limit  | 470.00 MHz         |



|  |            |
|--|------------|
| Upper Limit                              | 698.00 MHz |
| Other Antenna Type                       | N/A        |
| ERP: (Effective Radiated Power)<br>..... | 1542.0 kW  |
| Manufacturer                             | dielectric |
| Model                                    | tuc-p5-12  |
| Year                                     | 2001       |

**Facility ID's and Call Signs of all stations with whom the antenna is shared.**

| Facility ID | Call Sign |
|-------------|-----------|
| 35576       | wjax-tv   |
| 11909       | wfox-tv   |

### Primary Antenna

#### Adjustment to Existing Antenna

| Section                        | Question                                      | Response |
|--------------------------------|---|----------|
| Sweep Test of Existing Antenna | Do you need a sweep test of existing antenna? | Yes      |

### Primary Antenna

#### Other Antenna Costs

| Section                     | Question                                     | Response   |
|-----------------------------|--|------------|
| Combiner for Shared Antenna | Do you need a Combiner for a Shared Antenna? | Yes        |
|                             | Type   | New        |
|                             | Number of channels supported                 | 3          |
|                             | Frequencies of channels supported            | RF channel |
|                             | Frequency                                    | N/A        |

**Enter a list of RF channel numbers.**

| RF Channel Number |
|-------------------|
| 19                |
| 14                |
| 32                |

**Primary  
Antenna**

**Other Antenna Cost Not Listed**  
Information not provided.

**Transmission Line**

| Section                            | Question  | Response |
|------------------------------------|---|----------|
| Transmission Line Related Expenses | Do you have transmission line related expenses? | Yes      |

**Primary Transmission Line****Existing Transmission Line**

| Section  | Question   | Response          |
|--|--|-------------------|
| Existing Transmission Line Description           | Type of change   | Utilize Existing  |
|  | Use  | Primary (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? | Yes               |
|  | Is Transmission Line in operating condition?                               | Yes               |
| Existing Transmission Line Manufacturer and Type | Manufacturer   | Dielectric        |
|  | Type   | Rigid             |
|  | Diameter   | 7 3/16 inches     |
|  | Other Diameter   | N/A               |
|  | Segment Length   | Broadband         |
|  | Other Segment Length   | N/A               |
|  | Number of parallel runs  | 0                 |
|  | Length   | 1020 feet per run |

**Facility ID's and Call Signs of all stations with whom the transmission line is shared.**

| Facility ID | Call Sign |
|-------------|-----------|
| 35576       | wjax-tv   |
| 11909       | wfox-tv   |

Primary  
Transmission Line

Other Transmission Line Expenses Not Listed

| Name          | Description   |
|---------------|---|
| optimize line | Tower has Dielectric Digi line with tunable elbows that will need to be optimized for new channel |

**Tower  
Equipment  
And  
Rigging  
Costs**

| Section                                  | Question  | Response |
|--|---|----------|
| Tower Equipment or 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 Existing   |
|   | Tower Use   | Primary (Main)    |
|   | Description of Use                                      | N/A               |
|   | Ownership   | Leased            |
|   | Is this tower consider Complex?                         | No                |
|   | 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                                   | Yes               |
|   | Is tower documented for structural analysis?            | Yes               |
|   | Is tower compliant with Rev G?                          | Yes               |
| Existing Tower Structure Registration               | Do you have a tower registration number?                | Yes               |
|   | ASR Number  | 1235223           |
| Coordinates (NAD83 ( North American Datum of 1983)) | Latitude (NAD83)  | 30° 16' 51.9" N-  |
|   | Longitude (NAD83)                                       | 081° 34' 12.2" W- |
|   | Overall Structure Height                                | 1042.97 feet      |
|   | Support Structure Height                                | 925.84 feet       |
|   | Ground Elevation Above Mean Sea Level (AMSL)            | 7.87 feet         |
|   |   |                   |

|                  |   |
|------------------|---|
| Structure Type   | GTOWER -<br>Guyed<br>Structure Used<br>for<br>Communication<br>Purposes |
| Tower Owner      | SBA Towers II<br>LLC  |
| Date Constructed | 01/19/2006  |

**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 |
|-------------|-----------|---------|
| 73130       | WJCT      | DTV     |
| 51974       | WWJK      | FM      |
| 67243       | WKSL      | FM      |
| 51975       | WJBT      | FM      |
| 35576       | WJAX-TV   | DTV     |
| 73125       | WJCT-FM   | FM      |
| 11909       | WFOX-TV   | DTV     |
| 4754        | WJKF-CD   | DTV     |
| 29728       | WQIK-FM   | FM      |

**Other Types of Users**

| Users           |
|-----------------|
| KNJY504 AMBULAN |

**Primary  
Tower**

**Tower Modification Costs**

| Section | Question | Response |
|---------|----------|----------|
|---------|----------|----------|

|                             |  |  |
|-----------------------------|--|--|
| <b>Engineering Study</b>    | Please what type of engineering study is required, if any: | Study needed for tower with candelabra |
| <b>Tower Reinforcements</b> | Please select whether tower reinforcements are needed:     | Minor Reinforcements needed            |

**Primary Tower**

**Tower Rigging Costs**

| Section                             | Question                          | Response |
|-------------------------------------|-----------------------------------|----------|
| <b>Tower Rigging Costs</b>          | Complex Tower                     | N/A      |
| <b>Helicopter Services Required</b> | Are helicopter services required? | No       |

**Primary Tower**

**Other Tower Expenses Not Listed**

| Name                   | Description  |
|------------------------|--|
| <b>PIM REMEDIATION</b> | Tower must be inspected and rust removed and components replaced to prevent Passive Intermodulation due to Channel 14 assignment. Tower crew to examine tower for sources of PIM and replace components as needed to reduce existence of PIM |

**Outside  
Professional Services Costs**

| Section   | Question   | Response |
|---|--|----------|
| <b>Outside Project Management Services</b>            | Do you require outside project management services?                          | No       |
|   | Number of Hours  | N/A      |
|   | Explanation  | N/A      |
| <b>Outside RF consulting Engineering Services</b>     | 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 Authority                              | No       |
|   | Quantity   | N/A      |
|   | Do you have Distributed Transmission System engineering services?            | N/A      |
|   | Critical Facility  | N/A      |
|   | Terrain-Shielded Facility  | N/A      |
|   |  |          |
| <b>Attorney and Other Outside Consulting Services</b> | Prepare and file Form FCC Construction Permit Application                    | Yes      |
|   | 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  | No   |
|                                      | Quantity   | N/A  |
|                                      | 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  |
| <b>RF Field Engineering Services</b> | Comprehensive coverage verification via field study  | Yes  |
|                                      | RF exposure measurements   | No   |
|                                      | Additional Field Engineering Service   | Yes  |
|                                      | Number of Days   | 5  |
|                                      | Justification  | Tower site inspected for Passive Intermodulation generation and sources identified |

**Outside Professional Services Costs**

**Other Professional Services Expenses Not Listed**

| Name                     | Description   |
|--------------------------|---|
| CH14 testing engineering | MWG will determine steps necessary to prevent interference with land mobile |

## Other Expenses

| Section                             | Question   | Response |
|-------------------------------------|--|----------|
| <b>AM Pattern Disturbance</b>       | Is an Impact Study needed?   | No       |
|                                     | Is Remediation needed?   | No       |
| <b>Facility Expenses</b>            | Name   | N/A      |
|                                     | Other Distributed Transmission System Expenses Not listed  | N/A      |
|                                     | Name   | N/A      |
|                                     | Is Notification of a Medical Facility required as a result of DTV broadcasting?                                      | Yes      |
| <b>Permit and Filing Costs</b>      | Local Zoning   | No       |
|                                     | Non-zoning permits   | No       |
|                                     | BLM or NFS Coordination  | No       |
|                                     | FCC Construction Permit Minor Change   | Yes      |
|                                     | FCC License to Cover Application   | Yes      |
|                                     | FCC Special Temporary Authority Application  | No       |
| <b>Other Miscellaneous Expenses</b> | 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?  | Yes      |
|                                     | 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**

**Other Expenses Not Listed**

| Name                               | Description   |
|------------------------------------|---|
| <b>PLMR Notification</b>           | Notify all PLMR licensees of our impending broadcasting on CH14   |
| <b>PLMR interference abatement</b> | Improve the reception selectivity and amplifier dynamic range at the various PLMR sites within 65km of WFOX |

## Cost Information

### Transmitters

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

| Description                                   | Predetermined Cost Estimate | Estimated Cost        | Estimated Cost Justification   | Actual Cost   | Actual Cost Justification |
|---|-----------------------------|-----------------------|--|---------------|---------------------------|
| <b>Primary Transmitter ULXT</b>               | <b>\$262,960.00</b>         | <b>\$249,666.80</b>   |  | <b>\$0.00</b> |                           |
| Additional field engineering time, 10-30 days | \$63,100.00                 | \$60,000.00           | ch14 testing   | N/A           | N/A                       |
| RF Consulting Engineer                        | \$5,260.00                  | \$5,000.00            | N/A  | N/A           | N/A                       |
| 60 kW mask filter                             | \$89,400.00                 | \$84,666.80           | CH14 mask filter included in channel change quote GA-00020157; 84,666.80 | N/A           | N/A                       |
| UHF and VHF - minor banding issues            | \$105,200.00                | \$100,000.00          | CH14   | N/A           | N/A                       |
| <b>Auxiliary Transmitter ULXTE-50</b>         | <b>\$1,078,910.00</b>       | <b>\$1,292,855.19</b> |  | <b>\$0.00</b> |                           |
| Additional field engineering time, 10-30 days | \$63,100.00                 | \$60,000.00           | ch14 testing   | N/A           | N/A                       |
| RF Consulting Engineer                        | \$5,260.00                  | \$5,000.00            | N/A  | N/A           | N/A                       |

|  |                    |                |  |              |     |
|--|--------------------|----------------|--|--------------|-----|
| Other<br>Electrical<br>Service:<br>400A 208<br>service,<br>conduit &<br>wiring | <b>\$38,000.00</b> | \$38,000.00    | N/A  | N/A          | N/A |
| Transformer<br>3 phase<br>/480v - 150<br>KVA                                   | \$25,550.00        | \$24,300.00    | N/A  | N/A          | N/A |
| UHF -<br>Liquid<br>Cooled<br>Solid State<br>Transmitter<br>21 - 31 kW          | \$947,000.00       | \$1,165,555.19 | ULXTE-50;<br>number is<br>manufacturer's<br>quote Includes<br>CH14 mask<br>filter system<br>(\$106,068.81) | \$0.00       | N/A |
| <b>Sub-total</b>   | \$1,341,870.00     | \$1,542,521.99 | N/A  | \$0.00       | N/A |
| <b>Total for all<br/>systems</b>   | \$3,274,939.00     | \$2,526,320.99 | N/A  | \$133,536.92 | 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<br>Cost<br>Justification | Actual Cost | Actual Cost<br>Justification |
|---------------------------------|--------------------------------|-------------------|------------------------------------|-------------|------------------------------|
| Primary<br>Antenna<br>tuc-p5-12 | \$637,930.00                   | \$83,400.00       |                                    | \$0.00      |                              |

|   |             |             |   |     |     |
|---|-------------|-------------|---|-----|-----|
| New<br>combiner,<br>cost per<br>channel<br>(without<br>antenna) | \$84,200.00 | \$77,000.00 | Our present<br>two channel T<br>combiner<br>cannot be re-<br>tuned and<br>must be<br>replaced. We<br>do not have<br>an aux<br>antenna. The<br>current<br>combiner is<br>for channels<br>19 & 32. To<br>fully utilize the<br>testing period<br>to ensure that<br>we do not<br>interfere with<br>land mobile<br>operations,<br>we must be<br>able to<br>continue to<br>broadcast on<br>CH Channels<br>32 & CH19<br>while testing<br>on Channel<br>14.To<br>accomplish<br>this task, we<br>require the<br>ability to<br>switch back<br>and forth<br>between<br>Channels 32<br>and 14,<br>mandating<br>use of a<br>channel<br>combiner that<br>can<br>accommodate<br>all three<br>channels. | N/A | N/A |
|---|-------------|-------------|---|-----|-----|

|   |                |                |     |              |     |
|---|----------------|----------------|-----|--------------|-----|
| Sweep test of existing antenna  | \$6,730.00     | \$6,400.00     | N/A | N/A          | N/A |
| UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, horizontally polarized | \$547,000.00   | \$0.00         | N/A | N/A          | N/A |
| <b>Sub-total</b>  | \$637,930.00   | \$83,400.00    | N/A | \$0.00       | N/A |
| <b>Total for all systems</b>  | \$3,274,939.00 | \$2,526,320.99 | N/A | \$133,536.92 | N/A |

## Components

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 Cost  | Actual Cost<br>Justification |
|---------------------------------|--------------------------------|-------------------|------------------------------------|--------------|------------------------------|
| Primary<br>Transmission<br>Line | \$6,400.00                     | \$6,400.00        |                                    | \$0.00       |                              |
| optimize line                   | <i>\$6,400.00</i>              | \$6,400.00        | match line<br>to new<br>channels   | N/A          | N/A                          |
| Sub-total                       | \$6,400.00                     | \$6,400.00        | N/A                                | \$0.00       | N/A                          |
| Total for all<br>systems        | \$3,274,939.00                 | \$2,526,320.99    | N/A                                | \$133,536.92 | N/A                          |

Components

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).

| Description  | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification   | Actual Cost | Actual Cost Justification |
|--|-----------------------------|----------------|--|-------------|---------------------------|
| Primary Tower GTOWER   | \$630,679.00                | \$242,179.00   |  | \$0.00      |                           |
| PIM REMEDIATION  | <i>\$242,179.00</i>         | \$242,179.00   | TOWER KING QUOTE C-17-125 Tower must be inspected and rust removed to prevent Passive Intermodulation due to Channel 14 assignment. Tower crew to examine tower for sources of PIM and replace components as needed to reduce existence of PIM :SEE ATTACHMENT | N/A         | N/A                       |
| Tall Tower (greater than 500')   | \$210,500.00                | \$0.00         | N/A  | N/A         | N/A                       |
| Minor tower reinforcement /modifications                                       | \$158,000.00                | \$0.00         | N/A  | N/A         | N/A                       |
| Structural engineering tower load study for a documented tower with candelabra | \$20,000.00                 | \$0.00         | N/A  | N/A         | N/A                       |

|                              |                |                |     |              |     |
|------------------------------|----------------|----------------|-----|--------------|-----|
| <b>Sub-total</b>             | \$630,679.00   | \$242,179.00   | N/A | \$0.00       | N/A |
| <b>Total for all systems</b> | \$3,274,939.00 | \$2,526,320.99 | N/A | \$133,536.92 | N/A |

## Components

Information not provided.

## 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 Cost Estimate | Estimated Cost      | Estimated Cost Justification  | Actual Cost         | Actual Cost Justification   |
|--|-----------------------------|---------------------|---|---------------------|---|
| <b>Outside Professional Services</b>   | <b>\$210,390.00</b>         | <b>\$204,750.00</b> |   | <b>\$133,536.92</b> |   |
| Perform engineering study for new channel assignment and antenna development | \$7,360.00                  | \$7,000.00          | N/A   | \$10,387.26         | antenna plots & TV study  |
| Prepare and or review reimbursement form                                     | \$2,630.00                  | \$2,500.00          | This is actual cost for legal and engineering advisement & documentation per invoices | \$21,914.50         | As seen in the invoices this is what it costs   |
| Additional Field Engineering Service, 5 Days                                 | <i>\$52,000.00</i>          | \$52,000.00         | Tower site inspected for Passive Intermodulation generation and sources identified    | \$54,069.50         | Once the initial PIM testing was done it was determined that a visual daytime inspection of the tower was needed (tower king 2.pdf); this increased the cost by \$6432.50 |

|  |                    |             |   |             |             |
|--|--------------------|-------------|---|-------------|-------------|
| CH14 testing engineering   | <b>\$45,000.00</b> | \$45,000.00 | MWG will determine steps necessary to prevent interference with land mobile | \$34,984.26 | N/A         |
| Comprehensive coverage verification via field study, if needed                       | \$84,200.00        | \$80,000.00 | N/A   | \$8,925.00  | RF Analysis |
| Attorney Fees - Negotiation of lease and other matters for shared locations          | \$4,210.00         | \$4,000.00  | N/A   | \$673.20    | 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         |
| Address transition timing and coordination issues w/ other stations and wireless     | \$2,630.00         | \$2,500.00  | 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         |

|  |                |                |     |              |     |
|--|----------------|----------------|-----|--------------|-----|
| Attorney Fees -<br>Prepare and<br>File FCC Form<br>2100 (main),<br>Construction<br>Permit<br>Application | \$5,260.00     | \$5,000.00     | N/A | \$1,383.20   | N/A |
| Prepare<br>engineering<br>section of FCC<br>Form 2100<br>(main), License<br>to Cover<br>Application      | \$1,580.00     | \$1,500.00     | N/A | \$1,200.00   | N/A |
| <b>Sub-total</b>   | \$210,390.00   | \$204,750.00   | N/A | \$133,536.92 | N/A |
| <b>Total for all<br/>systems</b>   | \$3,274,939.00 | \$2,526,320.99 | N/A | \$133,536.92 | N/A |

## Components

| Actual Information  |  |
|---|--|
| Description   | File Name  |
| Perform engineering study<br>for new channel<br>assignment and antenna<br>development | <b>Component Description:</b>  |
|   | antenna plots & TV<br>study  |
|   | <b>Amount:</b>   |
|   | \$8,647.26   |
|   | <b>Component Description:</b>  |
|   | antenna plots & tv<br>study  |
|   | <b>Amount:</b>   |
|   | \$1,740.00   |
| Prepare and or review<br>reimbursement form   | <b>Component Description:</b>  |
|   | A&A-Research<br>/Review & emails:<br>regarding FCC<br>repack applications<br>& status --\$224.40<br>credit |
|   | <b>Amount:</b>   |
|   | \$1,237.60   |

|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>Component Description:</b> | Advise on FCC 399<br>& 399 response |
| <b>Amount:</b>                | \$9,525.00                          |

|                               |               |
|-------------------------------|---------------|
| <b>Component Description:</b> | advise on 399 |
| <b>Amount:</b>                | \$225.00      |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | A&A- Research &<br>emails regarding<br>FCC post-auction<br>channel<br>reassignment<br>public notice<br>Prepare initial draft<br>repack application |
| <b>Amount:</b>                | \$820.40   |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | A&A-Research &<br>Review & emails<br>regarding revised<br>materials FCC<br>Form 399<br>questions; prepare<br>draft Form 399<br>amendment in LMS<br>database |
| <b>Amount:</b>                | \$3,742.60  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | A&A-fact gathering-<br>Further edits to<br>draft Form 399 and<br>finalize and submit<br>same review<br>exhibits regarding<br>FCC Form 399 |
| <b>Amount:</b>                | \$3,552.60  |

|  |   |  |  |  |  |  |   |
|--|---|--|--|--|--|--|---|
|  | <table> <tr> <td data-bbox="695 109 1114 600"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 109 1426 600"> <p>A&amp;A- Review FCC Form 399 draft Emails regarding FCC Form 399 draft prepare overview of FCC Form 399 reimbursement process</p> <p>\$1,720.40</p> </td></tr> <tr> <td data-bbox="695 600 1114 1314"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 600 1426 1314"> <p>A&amp;A-Update FCC database account for WFOX for preparation of repack application; research regarding accuracy of license coordinates for WFOX-TV tower for auction repack; FCC repack reimbursement process for WFOX and auction timing</p> <p>\$729.10</p> </td></tr> <tr> <td data-bbox="695 1314 1114 1843"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 1314 1426 1843"> <p>A&amp;A- Prepare correspondence regarding WJAX post-auction repack letter Telephone conference with S. Emery re updating LMS database prior to post-auction repack</p> <p>\$361.80</p> </td></tr> </table> | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>A&amp;A- Review FCC Form 399 draft Emails regarding FCC Form 399 draft prepare overview of FCC Form 399 reimbursement process</p> <p>\$1,720.40</p> | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>A&amp;A-Update FCC database account for WFOX for preparation of repack application; research regarding accuracy of license coordinates for WFOX-TV tower for auction repack; FCC repack reimbursement process for WFOX and auction timing</p> <p>\$729.10</p> | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>A&amp;A- Prepare correspondence regarding WJAX post-auction repack letter Telephone conference with S. Emery re updating LMS database prior to post-auction repack</p> <p>\$361.80</p> |
| <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>A&amp;A- Review FCC Form 399 draft Emails regarding FCC Form 399 draft prepare overview of FCC Form 399 reimbursement process</p> <p>\$1,720.40</p>  |  |  |  |  |  |   |
| <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>A&amp;A-Update FCC database account for WFOX for preparation of repack application; research regarding accuracy of license coordinates for WFOX-TV tower for auction repack; FCC repack reimbursement process for WFOX and auction timing</p> <p>\$729.10</p>  |  |  |  |  |  |   |
| <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>A&amp;A- Prepare correspondence regarding WJAX post-auction repack letter Telephone conference with S. Emery re updating LMS database prior to post-auction repack</p> <p>\$361.80</p>   |  |  |  |  |  |   |
| <p>Additional Field Engineering Service, 5 Days</p>        |   |  |  |  |  |  |   |



|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Network analysis of transmission system to determine suitability on ch14. Assist MWG with PIM testing. Test of filters in shop. |
| <b>Amount:</b>                | \$17,427.00   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | SOW: Rig tower and prepare for night work, Terminate 7 inch line and set up probe, Move probe around per engineer, remove termination and bring down to the ground; Line sweep, install connectors on transmission line. |
| <b>Amount:</b>                | \$25,840.00  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | TOWER SERVICE Mobilization and inspection of PIM on ground up to 400 foot. Inspection of 12 Bay antenna with Report. 51 man hours x \$120; 5 Travel Hours x \$75 per hour; 2 night per diem x \$140 |
| <b>Amount:</b>                | \$6,432.50  |

|  |   |
|--|---|
|  | <p><b>Component Description:</b> Inside coax with directional coupler; Used by MWG for initial PIM testing</p> <p><b>Amount:</b> \$4,370.00</p>   |
| CH14 testing engineering   | <p><b>Component Description:</b> Expenses &amp; Materials for MWG for PIM testing and site visit</p> <p><b>Amount:</b> \$11,126.76</p> <p><b>Component Description:</b> Time for MWG for initial WFOX PIM testing</p> <p><b>Amount:</b> \$23,857.50</p>   |
| Comprehensive coverage verification via field study, if needed                 | <p><b>Component Description:</b> RF analysis</p> <p><b>Amount:</b> \$1,882.50</p> <p><b>Component Description:</b> RF analysis</p> <p><b>Amount:</b> \$2,835.00</p> <p><b>Component Description:</b> RF analysis</p> <p><b>Amount:</b> \$1,350.00</p> <p><b>Component Description:</b> RF Analysis</p> <p><b>Amount:</b> \$2,857.50</p> |
| Attorney Fees -<br>Negotiation of lease and other matters for shared locations | <p><b>Component Description:</b> analyze &amp; advise review tower lease agreement for repack</p> <p><b>Amount:</b> \$673.20</p>  |

|  |                               |  |
|--|-------------------------------|--|
| Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application     | Information not provided.     |  |
| Address transition timing and coordination issues w/ other stations and wireless       | Information not provided.     |  |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application   | Information not provided.     |  |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | <b>Component Description:</b> | A & A - Calls, email & preparation of FCC construction permit filings  |
|  | <b>Amount:</b>                | \$1,158.80   |
|  | <b>Component Description:</b> | Analysis and advise - Preparation of email to J. Kauffman, A. Hall and D. Siegler regarding FCC post-auction letters concerning construction |
|  | <b>Amount:</b>                | \$74.80  |
|  | <b>Component Description:</b> | A&A-Email with D. Siegler FCC construction permit filing process   |
|  | <b>Amount:</b>                | \$149.60   |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application      | <b>Component Description:</b> | CP engineering   |
|  | <b>Amount:</b>                | \$1,200.00   |

## 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 Cost Estimate | Estimated Cost      | Estimated Cost Justification  | Actual Cost   | Actual Cost Justification |
|---|-----------------------------|---------------------|---|---------------|---------------------------|
| <b>Other Expenses</b>                                   | <b>\$447,670.00</b>         | <b>\$447,070.00</b> |   | <b>\$0.00</b> |                           |
| PLMR interference abatement                             | <i>\$405,775.00</i>         | \$405,775.00        | Estimate determined from Murphy Comm quote to test 323 sites and install equipment at 100 \$115,175 plus required hardware for abatement at 100 sites | N/A           | N/A                       |
| MVPD Notification of Channel Change                     | <i>\$2,500.00</i>           | \$2,500.00          | N/A   | N/A           | N/A                       |
| Develop and air announcement of upcoming channel change | <i>\$2,500.00</i>           | \$2,500.00          | N/A   | N/A           | N/A                       |
| Equipment Storage                                       | <i>\$5,000.00</i>           | \$5,000.00          | possible coordination issues may require storage  | N/A           | N/A                       |

|  |                    |                |  |              |     |
|--|--------------------|----------------|--|--------------|-----|
| Disposal Costs (for equipment and other waste, net of any salvage value) | <b>\$2,500.00</b>  | \$2,500.00     | glycol and beam supply disposal  | N/A          | N/A |
| Equipment Delivery and Handling Charges                                  | <b>\$5,000.00</b>  | \$5,000.00     | possible coordination issues may require storage                                 | N/A          | N/A |
| PLMR Notification  | <b>\$11,400.00</b> | \$11,400.00    | Notification of PLMR licensees within 65km of WFOX's impending CH14 broadcasting | N/A          | N/A |
| DTV Medical Facility Notification  | \$11,550.00        | \$11,000.00    | 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 |
| FCC Filing Fees - Form 2100 license to cover application                 | \$335.00           | \$325.00       | N/A  | N/A          | N/A |
| <b>Sub-total</b>   | \$447,670.00       | \$447,070.00   | N/A  | \$0.00       | N/A |
| <b>Total for all systems</b>   | \$3,274,939.00     | \$2,526,320.99 | N/A  | \$133,536.92 | N/A |

## Components

Information not provided.

**Cost  
Information**

**Grand Total**

|                       | Predetermined<br>Cost Estimate | Estimated Cost | Actual Cost  |
|-----------------------|--------------------------------|----------------|--------------|
| Total for all systems | \$3,274,939.00                 | \$2,526,320.99 | \$133,536.92 |

**Reimbursement Status**

| Question   | Response |
|--|----------|
| The facility has ceased operating on its pre-auction channel.  | No       |
| 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       |

| Certification | Section                                     | Question  | Response |
|---------------|---|---|----------|
|               | Submission of Estimated Expenses Statements | <p>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.</p>   |          |
|               |   | <ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol> |          |

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 above-named applicant for the Authorization(s) specified above.

**James  
Patrick  
McGue**  
*RF  
Engineer*

06/28/2018

| Certification | Section  | Question   | Response |
|---------------|--|--|----------|
|               | Submission of Actual Cost Documentation Statements | <p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS 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 AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>   |          |
|               |  | <ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol> |          |

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.

|  |   |
|--|---|
| <p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>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.</p> |   |
| <p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>  | <p><b>Jim Patrick McGue</b><br/> <i>RF Engineer</i></p> <p>06/28/2018</p> |

## Attachments