



(REFERENCE COPY - Not for submission)

FCC Form 399: Incentive Auction Relocation Reimbursement Fund System

File Number: **0000027842** | FRN: **0001842491** | Facility ID: **74070**
Repack Channel: **19 (UHF)** | Entity: **Broadcaster** | Filing Status: **Submitted**
Date Submitted: **10/01/2018**

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------|---------------------|---------------------------|
| WSOC TELEVISION, LLC Doing Business As: WSOC TELEVISION, LLC | Director of Engineering /Operations 1901 North Tryon Street CHARLOTTE, NC 28206 United States | +1 (704) 335-4732 | ted.hand@coxinc.com | Limited Liability Company |

Reimbursement Contact Information

Reimbursement Contact Name and Information

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

Preparer Contact Information

Preparer Contact Name and Information

| Applicant | Address | Phone | Email |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------|---------------------|
| Ted Hand <i>Director of Engineering Operations</i> <i>WSOC Television, LLC</i> | Ted Hand 1901 North Tryon Street Charlotte, NC 28206 United States | +1 (704) 335-4732 | ted.hand@coxinc.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 | WSOC will install main transmitter first while operating on the auxiliary transmitter /antenna, then install the auxiliary system. |

Transmitters

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

**Auxiliary
Transmitter****Existing Transmitter Information**

| Section | Question | Response |
|-------------------------------------------------------|------------------------------------------------------------|-----------------------|
| Existing Transmitter Description | Type of change | Purchase New |
| | Use | Auxiliary (Backup) |
| | Description of Use | backup to main |
| | Ownership | Owned |
| | Owner | |
| | Site | |
| | Is this transmitter currently shared with another station? | No |
| | Is this transmitter currently in operating condition? | Yes |
| Existing Transmitter Manufacturer and Type | Manufacturer | |
| | Model | DHD60P2 |
| | Year | 2009 |
| | Type | Solid state |
| | IOT Power Type | |
| | Description | |
| | Power capacity | |
| | Solid State Cooling | Air |
| | Solid State Power Capacity | 15 kw |
| | Other Transmitter Type | |

**Auxiliary
Transmitter**

New Transmitter Costs

| Section | Question | Response |
|-----------------------------------|-------------------------------------------------------------|-----------------------|
| New Transmitter | Use | Auxiliary (Backup) |
| | Description of Use | Auxiliary to Main |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Manufacturer | |
| | Model | ULXTE-30 |
| | Transmitter Type | Solid state |
| | IOT Power Type | |
| | Other | |
| | Power capacity | |
| | Solid State Cooling | Liquid |
| | Solid State Power Capacity | 19.2 kw |
| | Other Transmitter Type | |
| Justification for New Transmitter | Current transmitter will not tune to channel 19 | |

**Auxiliary
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 | |

| | | |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------|
| | Rigid Conduit and Wiring | Yes |
| | Size | 2 inches |
| | Length | 250.0 feet |
| | Other Electrical Service | Yes |
| | Description | Wiring for water pumps and mask filter blowers |
| HVAC Service | Does the replacement transmitter require HVAC Service? | No |
| | Type | |
| | Size | |
| | Other Size | |
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leasehold improvement? | No |
| | Size | |
| Channel 14 Costs | Is an RF Consulting Engineer needed? | |
| | Is a channel 14 Mask Filer needed? | |
| | Is additional field engineering time needed? | |
| | Number of Days | |

Auxiliary Transmitter

Other Transmitter Cost Not Listed

| Name | Description |
|--------------------|------------------------------------------------------------|
| Coax Switch | Coaxial switch use to switch from main to aux |
| Combiner | Use to combine WSOC Aux with WAXN Aux. Shared with WAXN-TV |

**Primary
Transmitter**

Existing Transmitter Information

| Section | Question | Response |
|---------------------------------------------------|------------------------------------------------------------|--------------------------|
| Existing Transmitter Description | Type of change | Purchase New |
| | Use | Primary (Main) |
| | Description of Use | |
| | Ownership | Owned |
| | Owner | |
| | Site | |
| | Is this transmitter currently shared with another station? | No |
| | Is this transmitter currently in operating condition? | Yes |
| Existing Transmitter Manufacturer and Type | Manufacturer | |
| | Model | CD3200P2 Sigma |
| | Year | 1999 |
| | Type | Inductive Output Tube |
| | IOT Power Type | Three |
| | Description | |
| | Power capacity | 55 kw |
| | Solid State Cooling | |
| | Solid State Power Capacity | |
| | Other Transmitter Type | |

**Primary
Transmitter**

New Transmitter Costs

| Section | Question | Response |
|-----------------------------------|---------------------------------------------------------------------------------|----------------|
| New Transmitter | Use | Primary (Main) |
| | Description of Use | |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | Yes |
| | Manufacturer | |
| | Model | ULXTE-72 |
| | Transmitter Type | Solid state |
| | IOT Power Type | |
| | Other | |
| | Power capacity | |
| | Solid State Cooling | Liquid |
| | Solid State Power Capacity | 47.2 kw |
| | Other Transmitter Type | |
| Justification for New Transmitter | Current transmitter is tuned for channel 34 and will not be tuned to channel 19 | |

**Primary
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 | 500 kVA |
| | Rigid Conduit and Wiring | Yes |
| | Size | 2 inches |
| | Length | 250.0 feet |
| | Other Electrical Service | Yes |
| | Description | Wiring for water pumps and mask filter blowers |
| HVAC Service | Does the replacement transmitter require HVAC Service? | Yes |
| | Type | Cooling Only |
| | Size | 15 tons |
| | Other Size | |
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leasehold improvement? | Yes |
| | Size | 320.0 square feet |
| Channel 14 Costs | Is an RF Consulting Engineer needed? | |
| | Is a channel 14 Mask Filer needed? | |
| | Is additional field engineering time needed? | |
| | Number of Days | |

Primary Transmitter

Other Transmitter Cost Not Listed

| Name | Description |
|--------------------------|-------------------------------------------------|
| Distilled Water | Distilled water for cooling system |
| Plumbing Supplies | Plumbing supplies for liquid cooled transmitter |
| RF Equipment | RF elbows, hangers, flanges, hardware kits |

RF Hanging Supplies

Equipment to hang new mask filters and
wave guide

Antennas

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

**Primary
Antenna**

Existing Antenna Information

| Section | Question | Response |
|-----------------------------------------------|------------------------------------------------------------------|----------------------|
| Existing Antenna Description | Type of change | Purchase New |
| | Antenna Use | Primary (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? | No |
| | Is antenna in operating condition? | Yes |
| | Is antenna located on or in close proximity to an antenna farm? | No |
| Existing Antenna Manufacturer and Type | Class | Full Power |
| | Mounting | Top-mount stacked |
| | Antenna position in stack | Bottom |
| | Polarization | Horizontal |
| | Type | Broadband Panel |
| | Number of Stations Supported | 1 |
| | Number of Panels | 48 |
| | Design power capacity in use | 65.0 % |
| | Lower Limit | 470.00 MHz |
| | Upper Limit | 608.00 MHz |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 1000.00 kW |

| | |
|--------------|------------|
| Manufacturer | |
| Model | TQP-0412-1 |
| Year | 1999 |

**Primary
Antenna**

New Antenna Costs

| Section | Question | Response |
|------------------------------------------|----------------------------------------------------------------------|-------------------|
| New Antenna Description | Use | Primary (Main) |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | No |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| New Antenna Manufacturer and Type | Class | Full Power |
| | Mounting | Top-mount stacked |
| | Antenna position in stack | Bottom |
| | Polarization | Horizontal |
| | Type | Broadband Panel |
| | Number of Stations Supported | 1 |
| | Number of Panels/Bays | 48 |
| | Lower Limit | 470.00 MHz |
| | Upper Limit | 608.00 MHz |
| | Design power capacity in use | 100.0 % |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 1000.00 kW |
| | Manufacturer | |

| | |
|-------------------------------|-----------------------------------------------------------------------------------------------------------|
| Model | TFU-31EBT /VP-R |
| Year | 2019 |
| Justification for New Antenna | Current antenna will not tune to channel 19. Current antenna will not support top mounted WAXN's antenna. |

Primary Antenna

Other Antenna Costs

| Section | Question | Response |
|------------------------------------|---------------------------------------------------------------------------------------|----------------|
| Combiner for Shared Antenna | Do you need a Combiner for a Shared Antenna? | No |
| | Type | |
| | 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? | Yes |
| | Broadband or Single Channel? | Single Channel |
| | Feed Line Size | 7 3/16 inches |
| Side Mount Brackets | Do you require the separate purchase of side mount brackets for a high power antenna? | No |

| | | |
|---------------------------------|-------------------------------------------------------------------------------------------------------------|-----|
| 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 |

**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 |

**Auxiliary
Transmission
Line**

Existing Transmission Line

| Section | Question | Response |
|---------------------------------------------------------|----------------------------------------------------------------------------|--------------------|
| Existing Transmission Line Description | Type of change | Purchase New |
| | Use | Auxiliary (Backup) |
| | Description of Use | backup to main |
| | 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 | |
| | Type | Rigid |
| | Diameter | 6 1/8 inches |
| | Segment Length | 19 1/2 ' |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 585 feet per run |

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

| Facility ID | Call Sign |
|-------------|-----------|
| 12793 | WAXN-TV |

**Auxiliary
Transmission
Line** **New Transmission Line**

| Section | Question | Response |
|------------------------------------|-------------------------------------------|----------------------------------------------|
| New Transmission Line Costs | Use | Auxiliary (Backup) |
| | Description of Use | backup to main |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Type | Rigid |
| | Diameter | 6 1/8 inches |
| | Segment Length | 20' |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 585 feet per run |
| | Justification for New Transmission Line | current line will not work at new channel 19 |

**Auxiliary
Transmission
Line** **Other Transmission Line Expenses Not Listed**

Information not provided.

**Primary
Transmission
Line**

Existing Transmission Line

| Section | Question | Response |
|---------------------------------------------------------|----------------------------------------------------------------------------|----------------------|
| Existing Transmission Line Description | Type of change | Purchase New |
| | 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? | No |
| | Is Transmission Line in operating condition? | Yes |
| Existing Transmission Line Manufacturer and Type | Manufacturer | |
| | Type | Rigid |
| | Diameter | 7 3/16 inches |
| | Segment Length | 19 ½ ' |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 1050 feet per run |

**Primary
Transmission
Line** **New Transmission Line**

| Section | Question | Response |
|------------------------------------|-------------------------------------------|--------------------------------------------------------------|
| New Transmission Line Costs | Use | Primary (Main) |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Type | Rigid |
| | Diameter | 7 3/16 inches |
| | Segment Length | 20' |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 1050 feet per run |
| | Justification for New Transmission Line | Current line is 19 1/2' and will not work for new channel 19 |

**Primary
Transmission
Line** **Other Transmission Line Expenses Not Listed**

Information not provided.

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 | Move Equipment |
| | 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 | No |
| | 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 | 1004745 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 35° 15' 42.0" N- |
| | Longitude (NAD83) | 080° 43' 37.0" W- |
| | Overall Structure Height | 1082.01 feet |
| | Support Structure Height | 970.13 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 855.96 feet |

| | |
|------------------|------------------------------------------|
| Structure Type | TOWER - Free Standing or Guyed Structure |
| Tower Owner | IWG Towers Assets II, LLC |
| Date Constructed | 01/31/2000 |

**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 |
|-------------|-----------|---------|
| 12793 | WAXN-TV | DTV |

**Primary
Tower**

Tower Rigging Costs

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

**Primary
Tower**

Other Tower Expenses Not Listed

Information not provided.

Outside Professional Services Costs

| Section | Question | Response |
|-------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Outside Project Management Services | Do you require outside project management services? | Yes |
| | Number of Hours | 25 |
| | Explanation | Project Manager to coordinate crew and materials on site. Design interior RF design |
| Outside RF consulting 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 | Yes |
| | For Main Facility | Yes |
| | Prepare engineering section of Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | Yes |
| | For Main Facility | No |
| | 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 |
| Attorney and Other Outside Consulting Services | Prepare and file Form FCC Construction Permit Application | Yes |
| | For Auxiliary Facility | Yes |
| | For Main Facility | Yes |

| | | |
|--------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------|
| | Prepare and file Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | Yes |
| | 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 | No |
| | Prepare or Review FCC Form 399 for Reimbursement | Yes |
| | Address transition timing and coordination issues w/ other stations and wireless providers | No |
| RF Field Engineering Services | Comprehensive coverage verification via field study | Yes |
| | RF exposure measurements | Yes |
| | Additional Field Engineering Service | Yes |
| | Number of Days | 2 |
| | Justification | Combined Auxiliary antenna will have to be field tuned |

Outside Professional Services Costs **Other Professional Services Expenses Not Listed**
Information not provided.

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 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 | No |
| | BLM or NFS Coordination | No |
| | FCC Construction Permit Minor Change | Yes |
| | FCC License to Cover Application | Yes |
| | FCC Special Temporary Authority Application | No |
| Other Miscellaneous 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? | 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

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 Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|----------------------------------------|-----------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------|
| Primary Transmitter ULXTE-72 | \$1,653,500.00 | \$1,625,601.47 | | \$1,889,550.04 | |
| RF Hanging Supplies | <i>\$6,500.00</i> | \$6,500.00 | N/A | \$1,475.88 | N/A |
| RF Equipment | <i>\$25,000.00</i> | \$25,000.00 | Transmitter reject loads would not fit within the room and had to moved to another room needing additional transmission lines, elbows, hangers and flanges | \$16,751.59 | N/A |
| Plumbing Supplies | <i>\$3,200.00</i> | \$3,200.00 | N/A | \$2,803.03 | N/A |
| Distilled Water | <i>\$1,300.00</i> | \$1,300.00 | N/A | N/A | N/A |
| Other -- Building Addition Size: 320.0 | <i>\$20,600.00</i> | \$20,600.00 | N/A | \$14,188.11 | N/A |
| 15 Ton system | \$54,300.00 | \$14,000.00 | Cost to move a HVAC unit. Shared cost with WAXN-TV 12793 | \$13,288.00 | N/A |

| | | | | | |
|-----------------------------------------------------------------------------------------------|--------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|
| Other Electrical Service: Wiring for water pumps and mask filter blowers | <i>\$55,000.00</i> | \$55,000.00 | Based on actual quote. Changed conduit estimate to \$0. Reduced Transformer from \$41,000 to \$6100. Overall electrical cost are lower than first estimated. Changed from \$51482 to \$55000 due to change in mask filter setup. | \$53,149.90 | N/A |
| 2" Rigid Conduit and Wiring (Cost per foot) | \$6,500.00 | \$0.00 | Cost lowered here but added to overall electrical cost | N/A | N/A |

| | | | | | |
|-----------------------------------------------------------------------------------------------|---------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW | \$1,434,000.00 | \$1,493,901.47 | Based on actual Gates Air quote. Attached are quotes from Gates Air and Comark's for an IOT transmitter. Also attached is a letter from Gates Air statement on re tuning of IOT transmitters. | \$1,781,793.53 | The sub total is more than the Estimated Cost because the payment for \$497,967.16 has been requested twice. The last item (#5) needs to be deleted. Thank you Ted H. |
| Transformer 3 phase /480v - 500 KVA | \$47,100.00 | \$6,100.00 | Cost lowered by \$41,000. Some added back to Overall electrical cost | \$6,100.00 | N/A |
| Auxiliary Transmitter ULXTE-30 | \$694,500.00 | \$654,864.87 | | \$415,176.57 | |
| Combiner | <i>\$7,300.00</i> | \$7,300.00 | This is half the cost. Shared with WAXN-TV | N/A | N/A |
| Other Electrical Service: Wiring for water pumps and mask filter blowers | <i>\$10,000.00</i> | \$10,000.00 | N/A | N/A | N/A |

| | | | | | |
|-------------------------------------------------------------------------|-------------------|----------------|-----|----------------|-----|
| UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW | \$666,000.00 | \$626,614.87 | N/A | \$415,176.57 | N/A |
| 2" Rigid Conduit and Wiring (Cost per foot) | \$6,500.00 | \$6,250.00 | N/A | N/A | N/A |
| Coax Switch | \$4,700.00 | \$4,700.00 | N/A | N/A | N/A |
| Sub-total | \$2,348,000.00 | \$2,280,466.34 | N/A | \$2,304,726.61 | N/A |
| Total for all systems | \$3,915,458.00 | \$3,808,463.84 | N/A | \$2,593,534.61 | N/A |

Components

| Actual Information | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | File Name |
| RF Hanging Supplies | <p>Component Description: Unistrit connecting plates, 1 1/2" ball values</p> <p>Amount: \$1,018.13</p> <p>Component Description: Unistrit stands, connecting plates</p> <p>Amount: \$457.75</p> |

RF Equipment

Component Description: RF parts for
WSOC-TV 74070
Parts were
\$3492.00 plus
\$109,87 for freight
Amount: \$3,601.87

Component Description: RF Parts for
WSOC-TV 74070
Amount: \$544.30

Component Description: RF sample cables
Amount: \$1,630.70

Component Description: Transmission line,
flange adapters,
line hangers to
move WSOC
current Auxiliary
Transmitter to
make room for
new WSOC Main
transmitter
Amount: \$4,204.87

Component Description: RF Equipment,
Hangers, Elbows,
Hardware Kits,
Flangeds
Amount: \$6,769.85

| | |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Plumbing Supplies | <p>Component Description: Anchors Concrete, pipe cutter vise</p> <p>Amount: \$647.84</p> <p>Component Description: Struct washer, copper pipe, anchors, pipe cutter</p> <p>Amount: \$601.09</p> <p>Component Description: Plumbing supplies, concrete anchors, threaded rod, unistrut, pipe clamps</p> <p>Amount: \$1,554.10</p> |
| Distilled Water | Information not provided. |
| Other -- Building Addition Size: 320.0 | <p>Component Description: Building Addition Shared cost with WAXN-TV 12793</p> <p>Amount: \$12,367.00</p> <p>Component Description: Metal doors for building addition - WSOC Share</p> <p>Amount: \$1,821.11</p> |
| 15 Ton system | <p>Component Description: Cost to move a HVAC Condenser, includes new concrete pad and ice bridge. ADDED CO PER MSG 1991307</p> <p>Amount: \$13,288.00</p> |

| | |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Other Electrical Service: Wiring for water pumps and mask filter blowers</p> | <p>Component Description: 35% payment on PO CPG11681. Invoice # 13395</p> <p>Amount: \$18,018.70</p> |
| | <p>Component Description: Electrical work during install of WSOC-TV transmitter</p> <p>Amount: \$30,889.20</p> |
| | <p>Component Description: Payment for additional AC breakers and unistrut ADDED QUOTE PER MSG 1994016</p> <p>Amount: \$1,752.00</p> |
| | <p>Component Description: Payment for installing Mask Filter cooling fans ADDED QUOTE PER MSG 1993914</p> <p>Amount: \$2,490.00</p> |
| <p>2" Rigid Conduit and Wiring (Cost per foot)</p> | <p>Information not provided.</p> |

| | |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW | <p>Component Description: Down Payment for WSOC Main Transmitter</p> <p>Amount: \$497,967.16</p> <p>Component Description: Re-submit of invoice & quote. Incorrect amount entered the first time. This is corrected amount.</p> <p>Amount: \$497,967.16</p> <p>Component Description: Invoice 3 of 3 for WSOC main Transmitter</p> <p>Amount: \$331,959.59</p> <p>Component Description: 1/3 down payment of WSOC-TV MAIN transmitter</p> <p>Amount: \$497,967.16</p> <p>Component Description: 1/3 Down payment due prior to shipment</p> <p>Amount: \$453,899.62</p> |
| Transformer 3 phase/480v - 500 KVA | <p>Component Description: 480 VAC to 240 VAC, 300 KVA transformer for WSOC transmitter install</p> <p>Amount: \$6,100.00</p> |
| Combiner | Information not provided. |
| Other Electrical Service: Wiring for water pumps and mask filter blowers | Information not provided. |

| | | |
|----------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------|
| UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW | <p>Component Description:</p> | Re-submit with PO & Invoice |
| | <p>Amount:</p> | \$208,871.62 |
| | <p>Component Description:</p> | 1/3 down payment of WSOC-TV AUX transmitter minus the estimated freight (1/3 of \$7700, \$2566.67) |
| | <p>Amount:</p> | \$206,304.95 |
| 2" Rigid Conduit and Wiring (Cost per foot) | Information not provided. | |
| Coax Switch | 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 Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---------------------------------------------------------------------------------------|-----------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------|
| Primary Antenna TUP-04-12-1 (S) | \$6,550.00 | \$4,185.00 | | \$4,185.00 | |
| Sweep test of existing antenna | \$6,550.00 | \$4,185.00 | ***System Notice: Estimate adjusted and locked because line has been superseded. ***Dummy enter per Jeff Newman 202-418-2046 | \$4,185.00 | Actual is lower than estimated |
| Primary Antenna TFU-31EBT /VP-R | \$260,550.00 | \$387,767.50 | | \$175,794.75 | |
| UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized | \$240,500.00 | \$371,205.00 | Based on actual quote from Dielectric LLC | \$167,042.25 | N/A |
| Sweep test of existing antenna | \$6,550.00 | \$4,180.00 | N/A | \$2,880.00 | N/A |

| | | | | | |
|-----------------------------------------------------------------------------------|----------------|----------------|-----|----------------|-----|
| Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed) | \$13,500.00 | \$12,382.50 | N/A | \$5,872.50 | N/A |
| Sub-total | \$267,100.00 | \$391,952.50 | N/A | \$179,979.75 | N/A |
| Total for all systems | \$3,915,458.00 | \$3,808,463.84 | N/A | \$2,593,534.61 | N/A |

Components

| Actual Information | |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Description | File Name |
| Sweep test of existing antenna | <p>Component Description: Reimbursement for Engineering Contract work.</p> <p>Amount: \$4,185.00</p> |
| UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized | <p>Component Description: Down payment of antenna ADDED QUOTE PER MSG 1991325</p> <p>Amount: \$167,042.25</p> |
| Sweep test of existing antenna | <p>Component Description: Item #21 Repack sweep Redo requested 5/9/18 per Natasha Lamothe</p> <p>Amount: \$2,880.00</p> |

Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)

Component Description:

Down payment of elbow complex
ADDED QUOTE

Amount:

\$5,872.50

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 Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|-------------------------------------------|-----------------------------|-----------------------|------------------------------|-----------------------|---------------------------|
| Primary Transmission Line | \$297,150.00 | \$289,800.00 | | \$90,435.15 | |
| Rigid Transmission Line - copper, 7 3/16" | \$297,150.00 | \$289,800.00 | N/A | \$90,435.15 | N/A |
| Auxiliary Transmission Line | \$115,245.00 | \$112,320.00 | | \$0.00 | |
| Rigid Transmission Line - copper, 6 1/8" | \$115,245.00 | \$112,320.00 | N/A | N/A | N/A |
| Sub-total | \$412,395.00 | \$402,120.00 | N/A | \$90,435.15 | N/A |
| Total for all systems | \$3,915,458.00 | \$3,808,463.84 | N/A | \$2,593,534.61 | N/A |

Components

| Actual Information | |
|--------------------|-----------|
| Description | File Name |

| | |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rigid Transmission Line - copper, 7 3/16" | <p>Component Description: Item #20 Extra 7-75 T/L redo requested 5/9/18 per Natasha Lamothe ADDED QUOTE</p> <p>Amount: \$5,872.50</p> <p>Component Description: Down payment transmission line (Item 4) ADDED QUOTE</p> <p>Amount: \$84,562.65</p> |
| Rigid Transmission Line - copper, 6 1/8" | 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 TOWER | \$205,000.00 | \$200,000.00 | | \$0.00 | |
| Tall Tower (greater than 500') | \$205,000.00 | \$200,000.00 | This is half the cost. The other half is on WAXN-TV's form. | N/A | N/A |
| Sub-total | \$205,000.00 | \$200,000.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$3,915,458.00 | \$3,808,463.84 | N/A | \$2,593,534.61 | 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 |
|----------------------------------------------------------------------------------------------------|-----------------------------|---------------------|------------------------------|--------------------|---------------------------|
| Outside Professional Services | \$151,660.00 | \$163,700.00 | | \$18,393.10 | |
| Additional Field Engineering Service, 2 Days | <i>\$17,500.00</i> | \$17,500.00 | N/A | N/A | N/A |
| RF Exposure Measurements | \$20,500.00 | \$20,000.00 | N/A | N/A | N/A |
| Comprehensive coverage verification via field study, if needed | \$81,900.00 | \$80,000.00 | N/A | N/A | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application | \$2,305.00 | \$2,250.00 | N/A | N/A | N/A |
| Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application | \$4,100.00 | \$4,000.00 | N/A | \$3,056.70 | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | \$5,120.00 | \$5,000.00 | N/A | \$4,813.40 | N/A |

| | | | | | |
|-------------------------------------------------------------------------------------------------------------------------|------------|-------------|----------------------------------------|-------------|-----------------------------------------------------------------------------------------------------|
| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application | \$1,535.00 | \$1,500.00 | N/A | N/A | N/A |
| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application | \$2,050.00 | \$2,000.00 | N/A | N/A | N/A |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,070.00 | \$3,000.00 | N/A | N/A | N/A |
| Perform engineering study for new channel assignment and antenna development | \$7,170.00 | \$22,200.00 | Actual Engineering Cost. See attached. | \$10,523.00 | Actual is less than Estimated. This invoice is for work with WSOC and WAXN. Requesting 50% for WSOC |
| Prepare and or review reimbursement form | \$2,560.00 | \$2,500.00 | N/A | N/A | N/A |

| | | | | | |
|--------------------------------------|----------------|----------------|-----|----------------|-----|
| Project management of the transition | \$3,850.00 | \$3,750.00 | N/A | N/A | N/A |
| Sub-total | \$151,660.00 | \$163,700.00 | N/A | \$18,393.10 | N/A |
| Total for all systems | \$3,915,458.00 | \$3,808,463.84 | N/A | \$2,593,534.61 | N/A |

Components

| Actual Information | |
|------------------------------------------------------------------------------------|---------------------------|
| Description | File Name |
| Additional Field Engineering Service, 2 Days | Information not provided. |
| RF Exposure Measurements | Information not provided. |
| Comprehensive coverage verification via field study, if needed | Information not provided. |
| Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application | Information not provided. |

Attorney Fees - Aux
Antenna, prepare and File
Form 2100 Construction
Permit or License
Application

Component Description: Full payment of
invoice for legal
services for
WSOC-TV repack.
Amount: \$1,336.30

Component Description: Re-submit of
invoice after
removal of non-
reimbursable item.
New amount
requested
Amount: \$299.20

Component Description: Full payment of
invoice for legal
services for
WSOC-TV repack.
Amount: \$419.80

Component Description: Full payment of
invoice for legal
services for
WSOC-TV repack.
Amount: \$1,421.20

| | |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p> | <p>Component Description: Full Payment of invoice for legal services for WSOC-TV repack. #The is a redo, correcting the wrong amount of invoice 5/8/18 #</p> <p>Amount: \$2,521.80</p> <p>Component Description: Full payment of invoice for legal services for WSOC-TV repack.</p> <p>Amount: \$358.10</p> <p>Component Description: Full payment of invoice for legal services for WSOC-TV repack.</p> <p>Amount: \$1,933.50</p> |
| <p>RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application</p> | <p>Information not provided.</p> |
| <p>RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application</p> | <p>Information not provided.</p> |
| <p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p> | <p>Information not provided.</p> |
| <p>Perform engineering study for new channel assignment and antenna development</p> | <p>Component Description: Requesting 50% of invoice WSOC</p> <p>Amount: \$10,523.00</p> |

| | |
|------------------------------------------|---------------------------|
| Prepare and or review reimbursement form | Information not provided. |
| Project management of the transition | Information not provided. |

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 |
|--------------------------------------------------------------------------|-----------------------------|--------------------|------------------------------|---------------|---------------------------|
| Other Expenses | \$27,353.00 | \$27,095.00 | | \$0.00 | |
| MVPD Notification of Channel Change | <i>\$7,500.00</i> | \$7,500.00 | N/A | N/A | N/A |
| Develop and air announcement of upcoming channel change | <i>\$1,100.00</i> | \$1,100.00 | N/A | N/A | N/A |
| Equipment Storage | <i>\$2,600.00</i> | \$2,600.00 | N/A | N/A | N/A |
| FCC Filing Fees - Form 2100 license to cover application | \$333.00 | \$325.00 | N/A | N/A | N/A |
| FCC Filing Fees - Form 2100 minor change CP application | \$1,070.00 | \$1,070.00 | N/A | N/A | N/A |
| DTV Medical Facility Notification | \$11,250.00 | \$11,000.00 | N/A | N/A | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | <i>\$3,500.00</i> | \$3,500.00 | N/A | N/A | N/A |

| | | | | | |
|--------------------------------------------------|----------------|----------------|-----|----------------|-----|
| Equipment Delivery and Handling Charges | <i>\$0.00</i> | \$0.00 | N/A | \$0.00 | N/A |
| Sub-total | \$27,353.00 | \$27,095.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$3,915,458.00 | \$3,808,463.84 | N/A | \$2,593,534.61 | N/A |

Components

Information not provided.

| Cost Information | Grand Total | | |
|-----------------------|-----------------------------|----------------|----------------|
| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
| Total for all systems | \$3,915,458.00 | \$3,808,463.84 | \$2,593,534.61 |

| Construction Status | Question | Response |
|---------------------|---------------------------|----------|
| | Is construction complete? | No |

| Certification | Section | Question | Response |
|---------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| | <p>Submission of Estimated Expenses Statements</p> | <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"> 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 above-named applicant for the Authorization(s) specified above.

Ted Hand
*Director of
Engineering
/Operations*

10/01/2018

| Certification | Section | Question | Response |
|---------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| | <p>Submission of Actual Cost Documentation Statements</p> | <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"> 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 acknowledges that all certifications and attached documentation are considered material. 2. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. | |

- 3.** 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).
- 4.** 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.
- 5.** The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.
- 6.** The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 7.** 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.

Ted Hand
*Director of
Engineering
/Operations*

10/01/2018

Attachments