Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility ID: **53859** | Service: **DTS** | Call Sign: **WIPR-TV** | Channel: **26 (UHF)**

File Number: **0000028582**

FRN: **0005832233** | Date Submitted: **07/12/2017**

## Applicant Information

### Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|---|---|---|---|---|
| **PUERTO RICO PUBLIC BROADCASTING CORPORATION**<br>Doing Business As: PUERTO RICO PUBLIC BROADCASTING CORPORATION | Dr. Rafael Batista Cruz<br>PO Box 190909<br>Urb. Baldrich<br>SAN JUAN, PR<br>00918<br>United States | +1 (787) 766-0505 | Avazquez@wipr.pr | Government Entity |

## 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 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| **Alejandro Luciano**<br>*Consulting Engineer*<br>*Puerto Rico Public Broadcasting Corporation* | Alejandro Luciano PE<br>PO Box 194528<br>SAN JUAN, PR 00919<br>United States | +1 (787) 717-6984 | aluciano@aluciano.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 | File for CP as needed, Perform Towers Structural Study, modify tower as needed, build Interim facilities, remove existing transmitter, install new transmitter, transmission line, combiner, splitter, new antennas. sweep antennas test and transition. |

## Transmitters

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

## Auxiliary Transmitter

### Add Transmitter Information

| Section | Question | Response |
|---|---|---|
| **Existing Transmitter Description** | Type of change | Retune Existing |
| | Use | Auxiliary (Backup) |
| | Ownership | Owned |

| | | |
|---|---|---|
| | Owner | N/A |
| | Is this transmitter currently shared with another station? | No |
| | Is this transmitter currently in operating condition? | Yes |
| **Existing Transmitter Manufacturer and Type** | Manufacturer | Harris |
| | Model | Maxiva UAX1000AT |
| | Year | 2012 |
| | Type | Solid State |
| | Solid State Cooling | Air Cooled |
| | Solid State Power capacity | 1.0 kW |

## Auxiliary Transmitter

### Retuning Transmitter Costs

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

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

## Auxiliary Transmitter

### Other Transmitter Cost Not Listed

Information not provided.

## Primary Transmitter

### Existing Transmitter Information

| Section | Question | Response |
|---|---|---|
| **Existing Transmitter Description** | Type of change | Purchase New |
| | Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | 1 |
| | Is this transmitter currently shared with another station? | No |
| | Is this transmitter currently in operating condition? | Yes |
| **Existing Transmitter Manufacturer and Type** | Manufacturer | |
| | Model | Power CD |
| | Year | 2009 |
| | Type | Inductive Output Tube |
| | IOT Power Type | Two |
| | Power Capacity | 60 kW |

**Primary Transmitter**

### New Transmitter Costs

| Section | Question | Response |
|---|---|---|
| **New Transmitter** | Use | Primary (Main) |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | Yes |
| | Manufacturer | |
| | Model | Parallax |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 50 kW |
| | Justification for New Transmitter | GatesAir, indicates the cost of the modifications of the IOT transmitters plus rental of similar power transmitter to remain on the air will exceed the cost of a new S.S. transmitter. Documents attesting the above will be submitted as soon as received |

**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 | Yes |
| | Size | 2 inches |
| | Length | 300.0 feet |
| | Other Electrical Service | Yes |
| | Description | Panel Main Breaker and disconnect switches fro transmitter, cooling pumps and heat exchangers. |
| **HVAC Service** | Does the replacement transmitter require HVAC Service? | No |
| | Type | N/A |
| | Size | N/A |
| | Other Size | N/A |
| **Transmitter Building Addition/Modification or Leasehold Improvement** | Does the Transmitter Building require an addition, modification, other leashold improvement? | No |
| | Size | N/A |
| **Channel 14 Costs** | Is an RF Consulting Engineer needed? | N/A |
| | Is a channel 14 Mask Filer needed? | N/A |
| | Is additional field engineering time needed? | N/A |
| | Number of Days | N/A |

| | |
|---|---|
| **Primary Transmitter** | **Other Transmitter Cost Not Listed**<br>Information not provided. |

## Interim Transmitter

### New Transmitter Costs

| Section | Question | Response |
|---|---|---|
| **New Transmitter** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase |
| | Manufacturer | |
| | Model | Parallax |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 10.0 kW |
| | Justification for New Transmitter | An interim transmitter is needed for WAPA-TV while the shared transmission line combiner /splitter system is removed and the present transmission line is reconnected to the WAPA-TV transmitter and antenna. |

## Interim 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 | Yes |
| | Size | 2 inches |
| | Length | 200.0 feet |
| | Other Electrical Service | Yes |
| | Description | Main Panel Breaker and Disconnect Switch for transmitter, cooling pump and heat exchanger |
| **HVAC Service** | Does the replacement transmitter require HVAC Service? | No |
| | Type | N/A |
| | Size | N/A |
| | Other Size | N/A |
| **Transmitter Building Addition/Modification or Leasehold Improvement** | Does the Transmitter Building require an addition, modification, other leashold improvement? | No |
| | Size | N/A |
| **Channel 14 Costs** | Is an RF Consulting Engineer needed? | N/A |
| | Is a channel 14 Mask Filer needed? | N/A |
| | Is additional field engineering time needed? | N/A |
| | Number of Days | N/A |
| **Inside RF System** | Is an additional interior RF system required to support this interim transmitter? | No |

| | |
|---|---|
| **Interim Transmitter** | **Other Transmitter Cost Not Listed**<br>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 Description** | Type of change | Purchase New |
| | Antenna Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | 1 |
| | Is the existing antenna shared with another station or stations? | No |
| | Is the existing antenna directional? | Yes |
| | Is antenna in operating condition? | Yes |
| | Is antenna located on or in close proximity to an antenna farm? | Yes |
| **Existing Antenna Manufacturer and Type** | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels | N/A |
| | Design power capacity in use | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 762.0 kW |

| | |
|---|---|
| Manufacturer | |
| Model | 26JSC-R<br>CT150SP |
| Year | 2008 |

## 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? | Yes |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | Yes |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| **New Antenna Manufacturer and Types** | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Elliptical |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels/Bays | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Design power capacity in use | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 561.0 kW |
| | Manufacturer | |

| | | |
|---|---|---|
| | Model | TFU-26JSC /VP-R CT150 |
| | Year | 2017 |
| | Justification for New Antenna | The existing antenna is on channel 43, Dielectric the manufacturer indicates is not feasible to tune the channel 43 antenna to channel 26, WIPR repack assigned channel. |

**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 inches |

| | | |
|---|---|---|
| **Side Mount Brackets** | Do you require the separate purchase of side mount brackets for a high power antenna? | Yes |
| **Pattern Scatter Analysis** | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | Yes |
| **Sweep Test** | Do you require the sweep testing of transmission line and antenna? | Yes |

## Primary Antenna

### Other Antenna Cost Not Listed

| Name | Description |
|---|---|
| **WIPR-FM 2 Bays Interim Antenna** | 2 Bays Interim Antenna for WIPR-FM |
| **WIPR-FM 8 Bays FM Antenna High Power 125 kW** | To modify the existing tower for TIA 222 Rev G. compliance it is necessary to remove several components from the tower including the WIPR-FM Panel antenna and transmission line and replace with a lighter antenna and combined transmission line.. |

## Interim Antenna

### New Antenna Costs

| Section | Question | Response |
|---|---|---|
| **New Antenna Description** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | Yes |
| | Will antenna be located on or in close proximity to an antenna farm? | Yes |
| **New Antenna Manufacturer and Type** | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | Type | Other |
| | Number of Stations Supported | N/A |
| | Number of Panels/Bays | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Design power capacity in use | N/A |
| | Other Antenna Type | Broadband Panel Array |
| | ERP: (Effective Radiated Power) | 250.0 kW |
| | Manufacturer | |
| | Model | 773332 |
| | Year | 2018 |

| | | |
|---|---|---|
| | Justification for New Antenna | An interim antenna is needed for WIPR-TV to remain on air while the present combiner /splitter system is removed, WIPR Ch. 43 Antenna is replaced and existing WAPA antenna and transmitter are reconnected. |

## Interim Antenna

### Other Antenna Costs

| Section | Question | Response |
|---|---|---|
| **Elbow Complex** | Do you require the separate purchase of the Elbow Complex? | Yes |
| | Broadband or Single Channel? | B |
| | Feed Line Size | 4 1/16 inches |
| **Side Mount Brackets** | Do you require the separate purchase of side mount brackets for an 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 |

## Interim Antenna

### Other Antenna Cost Not Listed

Information not provided.

## Interim Antenna

### New Antenna Costs

| Section | Question | Response |
|---|---|---|
| **New Antenna Description** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | Yes |
| | Will antenna be located on or in close proximity to an antenna farm? | Yes |
| **New Antenna Manufacturer and Type** | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels/Bays | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Design power capacity in use | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 260.0 kW |
| | Manufacturer | |

| | | |
|---|---|---|
| | Model | ALP24M6-HSW-27 |
| | Year | 2018 |
| | Justification for New Antenna | An interim antenna is needed for WAPA-TV to remain on the air while the existing combiner /splitter system is removed, the WIPR Antenna is replaced and the existing WAPA antenna and transmitter are reconnected. |

**Interim Antenna**

### Other Antenna Costs

| Section | Question | Response |
|---|---|---|
| **Elbow Complex** | Do you require the separate purchase of the Elbow Complex? | Yes |
| | Broadband or Single Channel? | S |
| | Feed Line Size | 4 1/16 inches |
| **Side Mount Brackets** | Do you require the separate purchase of side mount brackets for an antenna? | Yes |
| **Pattern Scatter Analysis** | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No |

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

## Interim 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 | Purchase New |
| | Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Leased |
| | Owner | Televicentro LLC |
| | Site | 1 |
| | 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 | 7 3/16 inches |
| | Other Diameter | N/A |
| | Segment Length | 20 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1000 feet per run |

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

| Facility ID | Call Sign |
|---|---|
| 52073 | WAPA-TV |

## 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 |
| | Other Diameter | N/A |
| | Segment Length | 19 1/2 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1000 feet per run |

| | |
|---|---|
| Justification for New Transmission Line | The existing shared transmission line belong to WAPA-TV, that station operates non DA, and it's line section of 20' are a prohibited length for operation in channel 26. Also it is not possible to build a splitter for adjacent channels operation. |

**Primary Transmission Line**

**Other Transmission Line Expenses Not Listed**

Information not provided.

## Interim Transmission Line

### New Transmission Line

| Section | Question | Response |
|---|---|---|
| **New Transmission Line Costs** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Type | Flexible Air |
| | Diameter | 4 inches |
| | Segment Length | N/A |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 550 feet per run |
| | Justification for New Transmission Line | An interim transmission line is needed for WIPR-TV to remain on the air while the existing combiner splitter system is removed, the present WIPR antenna is replaced, and the existing WAPA antenna and transmitter are recombined. |

## Interim Transmission Line

### Other Transmission Line Expenses Not Listed

Information not provided.

## Interim Transmission Line

### New Transmission Line

| Section | Question | Response |
|---|---|---|
| **New Transmission Line Costs** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Type | Flexible Air |
| | Diameter | 4 inches |
| | Segment Length | N/A |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 600 feet per run |
| | Justification for New Transmission Line | An interim transmission line is needed for WAPA-TV to remain on the air while the existing combiner /splitter system is removed and the existing WAPA antenna and transmitter are reconected. |

## Interim Transmission Line

### Other Transmission Line Expenses Not Listed

Information not provided.

## Interim Transmission Line

### New Transmission Line

| Section | Question | Response |
|---|---|---|
| **New Transmission Line Costs** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Type | Flexible Air |
| | Diameter | 3 inches |
| | Segment Length | N/A |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 450 feet per run |
| | Justification for New Transmission Line | An interim transmission line is needed for WIPR-FM to remain on the air while the existing WIPR-FM panel antenna system and transmission line are removed to reduce approximately a 5 tons weight load from the present antenna and transmission line. |

## Interim 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 | Modify Existing |
| | Tower Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Leased |
| | Is this tower consider Complex? | Terrain Constrained |
| | 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? | No |
| **Existing Tower Structure Registration** | Do you have a tower registration number? | Yes |
| | ASR Number | 1010730 |
| **Coordinates (NAD83 ( North American Datum of 1983))** | Latitude (NAD83) | 18° 06' 35.0" N- |
| | Longitude (NAD83) | 066° 03' 04.0" W- |
| | Overall Structure Height | 1090.87 feet |
| | Support Structure Height | 1006.88 feet |

| | |
|---|---|
| Ground Elevation Above Mean Sea Level (AMSL) | 2955.02 feet |
| Structure Type | TOWER - Free Standing or Guyed Structure |
| Tower Owner | Televicentro of Puerto Rico, LLC |
| Date Constructed | 07/01/1966 |

### 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 |
|---|---|---|
| 52073 | WAPA-TV | DTV |
| 53860 | WIPR-FM | FM |

**Primary Tower**

### Tower Modification Costs

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

**Primary Tower**

### Tower Rigging Costs

| Section | Question | Response |
|---|---|---|
| **Tower Rigging Costs** | Complex Tower | Terrain constrained |

| | | |
|---|---|---|
| **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 | 1500 |
| | Explanation | Due to extreme budget constrains WIPR does not have the necessary technical staff to perform the project management for the repack. |
| **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 | 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 | Yes |
| | Quantity | 3 |
| | Do you have Distributed Transmission System engineering services? | No |
| | 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 | No |
| | For Main Facility | Yes |
| | Prepare and file Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare request for Special Temporary Authority | Yes |
| | Quantity | 3 |
| | NEPA Section 106 environmental review | No |
| | Environmental Assessment | No |
| | ASR Modification | Yes |
| | FAA Consultation (including preparation of FAA Form 7460) | No |
| | Negotiation of Lease and other Matter for Shared Locations | Yes |
| | Prepare or Review FCC Form 399 for Reimbursement | Yes |
| | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| **RF Field Engineering Services** | Comprehensive coverage verification via field study | No |
| | RF exposure measurements | Yes |
| | Additional Field Engineering Service | No |
| | Number of Days | N/A |
| | Justification | N/A |

## Outside Professional Services Costs

### Other Professional Services Expenses Not Listed

| Name | Description |
| --- | --- |
| **Quarterly Progress Reports.** | FCC Quarterly Repack Progress Report |

## 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 | No |
| | Name | N/A |
| | Is Notification of a Medical Facility required as a result of DTV broadcasting? | Yes |
| **Permit and Filing Costs** | Local Zoning | Yes |
| | 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 | Yes |
| **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

| Name | Description |
| --- | --- |
| **Station Employees Time** | Stations Employees time exclusively dedicated to the repack functions |
| **8 poles Adjacent Channel Filter. Two Filters, Two Stations** | WIPR-TV and WAPA-TV radiation centers are within 50ft vertically, after repack WIPR will be on Ch. 26 adjacent to WAPA Ch. 27. A filter is needed for both WAPA and WIPR to impede interactions to WAPA and WIPR transmitters from each other emissions. |
| **WIPR-TV-WIPR-FM Combiner-Splitter.** | To minimize tower loading as per structural engineer request and to optimize the use of the WIPR-TV transmission line it is proposed to combine the WIPR-TV and WIPR-FM signals on the 7 inch line to be installed for WIPR-TV. |

## 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 |
|---|---|---|---|---|---|
| **Interim Transmitter Parallax** | **$517,700.00** | **$493,000.00** | | **$0.00** | |
| Other Electrical Service: Main Panel Breaker and Disconnect Switch for transmitter, cooling pump and heat exchanger | ***$18,000.00*** | $18,000.00 | As per previous experience during the analog to digital transitions and site remote location. | N/A | N/A |
| UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW | $494,500.00 | $470,000.00 | N/A | N/A | N/A |
| 2" Rigid Conduit and Wiring (Cost per foot) | $5,200.00 | $5,000.00 | N/A | N/A | N/A |
| **Primary Transmitter Parallax** | **$1,489,800.00** | **$1,416,500.00** | | **$0.00** | |
| Other Electrical Service: Panel Main Breaker and disconnect switches fro transmitter, cooling pumps and heat exchangers. | ***$9,000.00*** | $9,000.00 | As per previous experience during the analog to digital transitions and site remote location. | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW | $1,473,000.00 | $1,400,000.00 | N/A | N/A | N/A |
| 2" Rigid Conduit and Wiring (Cost per foot) | $7,800.00 | $7,500.00 | N/A | N/A | N/A |
| **Auxiliary Transmitter Maxiva UAX1000AT** | **$108,230.00** | **$102,800.00** | | **$0.00** | |
| UHF and VHF - minor banding issues | $105,200.00 | $100,000.00 | N/A | N/A | N/A |
| 1.5 kW mask filter | $3,030.00 | $2,800.00 | N/A | N/A | N/A |
| **Sub-total** | $2,115,730.00 | $2,012,300.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $5,577,525.00 | $5,338,885.00 | N/A | $0.00 | 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 Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|---|---|---|---|---|
| **Interim Antenna 773332** | **$207,180.00** | **$196,800.00** | | **$0.00** | |
| UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized | $189,500.00 | $180,000.00 | N/A | N/A | N/A |
| Sweep test of existing antenna | $6,730.00 | $6,400.00 | N/A | N/A | N/A |
| Elbow complex, broadband, at antenna input, per 4 1 /16. feedline (if needed) | $10,950.00 | $10,400.00 | N/A | N/A | N/A |
| **Interim Antenna ALP24M6-HSW-27** | **$228,950.00** | **$217,500.00** | | **$0.00** | |
| UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized | $189,500.00 | $180,000.00 | N/A | N/A | N/A |
| Sweep test of existing antenna | $6,730.00 | $6,400.00 | N/A | N/A | N/A |

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|---|---|---|---|---|---|
| Elbow complex, single channel, at antenna input, per 4 1 /16. feedline (if needed) | $9,570.00 | $9,100.00 | N/A | N/A | N/A |
| Side mount brackets for high power antennas (if not included in antenna base cost) | $23,150.00 | $22,000.00 | N/A | N/A | N/A |
| **Primary Antenna TFU-26JSC/VP-R CT150** | **$353,040.00** | **$350,600.00** | | **$0.00** | |
| WIPR-FM 2 Bays Interim Antenna | ***$10,000.00*** | $10,000.00 | Based on Manufacturer Consultations, Final quote to be provided as soon as received. | N/A | N/A |
| WIPR-FM 8 Bays FM Antenna High Power 125 kW | ***$78,000.00*** | $78,000.00 | Based on Manufacturer Consultations, Final quote to be provided as soon as received. | N/A | N/A |
| Elbow complex, single channel, at antenna input, per 7 3 /16. feedline (if needed) | $13,900.00 | $13,200.00 | N/A | N/A | N/A |

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|---|---|---|---|---|---|
| UHF - High Power, Side Mount, basic slot antenna, 561 kW input, directional,, elliptically or circularly polarized | ***$216,000.00*** | $216,000.00 | Based on Catalog pricing for one station 200-500 kW elliptic polarized antenna. | N/A | N/A |
| Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost) | $5,260.00 | $5,000.00 | N/A | N/A | N/A |
| Sweep test of existing antenna | $6,730.00 | $6,400.00 | N/A | N/A | N/A |
| Side mount brackets for high power antennas (if not included in antenna base cost) | $23,150.00 | $22,000.00 | N/A | N/A | N/A |
| **Sub-total** | $789,170.00 | $764,900.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $5,577,525.00 | $5,338,885.00 | N/A | $0.00 | 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 Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|---|---|---|---|---|
| **Interim Transmission Line** | **$40,700.00** | **$38,500.00** | | **$0.00** | |
| Flexible Air Transmission Line - dielectric, 4" | $40,700.00 | $38,500.00 | N/A | N/A | N/A |
| **Interim Transmission Line** | **$44,400.00** | **$42,000.00** | | **$0.00** | |
| Flexible Air Transmission Line - dielectric, 4" | $44,400.00 | $42,000.00 | N/A | N/A | N/A |
| **Interim Transmission Line** | **$26,550.00** | **$25,200.00** | | **$0.00** | |
| Flexible Air Transmission Line - dielectric, 3" | $26,550.00 | $25,200.00 | N/A | N/A | N/A |
| **Primary Transmission Line** | **$290,000.00** | **$276,000.00** | | **$0.00** | |

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|---|---|---|---|---|---|
| Rigid Transmission Line - copper, 7 3/16" | $290,000.00 | $276,000.00 | The existing transmission line is not owned by WIPR, the sections length are prohibited for channel 26 and is not possible to separate adjacent channels at tower to feed separate antennas. | N/A | N/A |
| **Sub-total** | $401,650.00 | $381,700.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $5,577,525.00 | $5,338,885.00 | N/A | $0.00 | 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 TOWER** | **$1,485,600.00** | **$1,412,000.00** | | **$0.00** | |
| Structural engineering tower load study for well documented tower | $12,600.00 | $12,000.00 | N/A | N/A | N/A |
| Serious tower reinforcement /modifications | $1,052,000.00 | $1,000,000.00 | N/A | N/A | N/A |
| Complex Tower (includes, for example, those with candelabras and /or stacked antennas) | $421,000.00 | $400,000.00 | N/A | N/A | N/A |
| **Sub-total** | $1,485,600.00 | $1,412,000.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $5,577,525.00 | $5,338,885.00 | N/A | $0.00 | 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** | **$308,685.00** | **$291,900.00** | | **$0.00** | |
| Project management of the transition | $237,000.00 | $225,000.00 | N/A | N/A | N/A |
| ASR modification (prepare FCC Form 854) | $2,105.00 | $2,000.00 | N/A | N/A | N/A |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | $11,040.00 | $10,500.00 | N/A | N/A | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application | $2,365.00 | $2,250.00 | N/A | N/A | N/A |
| Attorney Fees - Negotiation of lease and other matters for shared locations | $4,210.00 | $4,000.00 | N/A | N/A | N/A |
| RF Exposure Measurements | $21,050.00 | $20,000.00 | N/A | N/A | N/A |
| Prepare and or review reimbursement form | $2,630.00 | $2,500.00 | 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 |
| Perform engineering study for new channel assignment and antenna development | $7,360.00 | $7,000.00 | 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 |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | $1,580.00 | $1,500.00 | N/A | N/A | N/A |
| Prepare request for Special Temporary Authorization | $6,150.00 | $4,500.00 | N/A | N/A | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | $5,260.00 | $5,000.00 | N/A | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Quarterly Progress Reports. | ***$2,150.00*** | $2,150.00 | Estimated Fee for Quarterly Repack Progress Report Documents preparation and filling. | N/A | N/A |
| **Sub-total** | $308,685.00 | $291,900.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $5,577,525.00 | $5,338,885.00 | N/A | $0.00 | N/A |

## Components

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** | **$476,690.00** | **$476,085.00** | | **$0.00** | |
| 8 poles Adjacent Channel Filter. Two Filters, Two Stations | ***$160,000.00*** | $160,000.00 | Estimated price for two hi power filters (WAPA Ch. 27 and WIPR Ch. 26) based on manufacturer consultation. Final quote price to be provided as soon as received. | N/A | N/A |
| MVPD Notification of Channel Change | ***$7,000.00*** | $7,000.00 | Based on previous experience during the analog to digital transition | N/A | N/A |
| Develop and air announcement of upcoming channel change | ***$20,000.00*** | $20,000.00 | Based on previous experience during the analog to digital transition | N/A | N/A |
| Equipment Storage | ***$7,000.00*** | $7,000.00 | Based on previous experience during the analog to digital transition | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Equipment Delivery and Handling Charges | ***$50,000.00*** | $50,000.00 | Based on previous experience during the analog to digital transition | N/A | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | ***$4,500.00*** | $4,500.00 | Based on previous experience during the analog to digital transition. | N/A | N/A |
| Local Zoning | ***$10,000.00*** | $10,000.00 | Based on previous experience. Local authority estimated fees for tower work permits. | N/A | N/A |
| FCC Filing Fees - Special Temporary Authorization request | $195.00 | $190.00 | 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 |
| DTV Medical Facility Notification | $11,550.00 | $11,000.00 | N/A | N/A | N/A |
| Station Employees Time | ***$105,000.00*** | $105,000.00 | Estimated amount for station personnel repack dedicated time. | N/A | N/A |

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|---|---|---|---|---|---|
| FCC Filing Fees - Form 2100 license to cover application | $335.00 | $325.00 | N/A | N/A | N/A |
| WIPR-TV-WIPR-FM Combiner-Splitter. | ***$100,000.00*** | $100,000.00 | Based on Manufacturer Consultations, final price quote will be provided as as soon as received. | N/A | N/A |
| **Sub-total** | $476,690.00 | $476,085.00 | N/A | $0.00 | N/A |
| **Total for all systems** | $5,577,525.00 | $5,338,885.00 | N/A | $0.00 | N/A |

### Components

Information not provided.

## Cost Information

### Grand Total

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|---|---|---|---|
| **Total for all systems** | $5,577,525.00 | $5,338,885.00 | $0.00 |

## 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** | WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT. | |
| | 1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.<br>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.<br>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. | **Rafael Batista Cruz**<br>*President*<br><br>07/12/2017 |

## Attachments

Information not provided.