

**Wyandotte Municipal Services
CMTS Replacement Project Response
Bid Number 4685**

Date: 28 April 2016





Advanced Media Technologies

3150 SW 15th Street
Deerfield Beach, FL
33442

April 28, 2016

Mr. Steve Timcoe
Superintendent – CATV Telecommunications
3200 Biddle Avenue
Suite 200
Wyandotte, MI
48192

Re: Request for Proposal – Wyandotte Municipal Services – CMTS Replacement Project – Bid Number 4685

Dear Mr. Timcoe,

Thank you for the opportunity to bid on your CMTS Replacement Project. We have analyzed the RFP and are pleased to submit our proposal for the ARRIS E6000 CMTS.

Our proposal is built on proven success-based methodologies for providing DOCSIS internet to your customers at a competitive price.

The following individuals, together or individually, participated in this RFP response:

1. Mr. Anthony Dart, Sales, National Accounts, adart@amt.com
2. Mr. Eric Gudgel, Sales Engineering Manager – egudgel@amt.com
3. Mr. Michael J. Citrigno, Director, Services and System Integration – mcitrigno@amt.com

If awarded the RFP, AMT is ready to begin this CMTS project by 5/18/16.

Should you desire or require any clarification, please don't hesitate to contact me by email or phone.

Sincerely

Anthony Dart
Sales, National Accounts
913-636-5121



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Cover Letter

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Section 1 - Executive Summary

Bidders Scope of the Proposed Solution

AMT is pleased to present our proposal for a turnkey CMTS replacement solution. Our proposal includes all necessary equipment to replace an existing CMTS with a new ARRIS E6000 Converged Edge Router to provide DOCSIS services to WMS' customers. AMT's proposal includes the services to install, configure, and migrate customers to the new CMTS. Further, the proposal includes CMTS Training as well as ongoing Technical Support.

Recommended Business Relationship with WMS

AMT has previously provided WMS with equipment and services to implement the successful Digital Simulcast Video Project, All Digital DTA fulfillment Project, as well as multiple phases of HD Channel additions and Ad Insertion integration projects. AMT hopes to leverage the very positive working relationship between WMS staff and AMT's Sales and Professional Services staff to successfully deploy the proposed CMTS solution.

Technology Overview

The ARRIS E6000 Converged Edge Router is a widely deployed CCAP CMTS platform that was introduced in 2012. The E6000 is based upon the code string and basic architecture that was first introduced in the highly successful ARRIS C4 CMTS platform in 2000. As of Q1 2015, the E6000 held approximately 51% of the total CCAP CMTS Market Share with over 3000 units deployed.

The E6000 consists 4 major components: The Midplane Chassis with Redundant DC Power Entry Modules. Redundant Router Service Modules which provide processing and network interfaces. Downstream DOCSIS Cable Access Modules (CAM) configured for N-1 redundancy, consisting of 8 F-Connector ports, each port capable of 8-32 DOCSIS 3.0 Carriers plus DOCSIS 3.1 and CCAP Video. Upstream DOCSIS CAMs configured for N-1 Redundancy, consisting of 24 MCX RF Connectors each capable of 2-4 DOCSIS 3.0 Carriers. The E6000 is deployed with a licensed model that allows for growth by adding licenses without the need to add hardware.

Executive Summary - Continued

Description of Corporate Qualifications

AMT has been Arris' (fmr Motorola) largest distributor for over 16 years, representing equipment sales and installations greater than all of other distribution partners combined. AMT has a number of reference accounts listed in the Appendix section of this RFP response, all of them representing recent, successful, similar projects.

Description of demonstrated deployment procedures

AMT has successfully deployed numerous ARRIS CMTSs, both C4 and E6000 platforms, in partnership with Arris and as stand-alone AMT service engagements. AMT has completed and continues to stay current on all Arris training requirements to insure all systems are being deployed within all recommended parameters and validated periodically by appropriate Technical Support staff. AMT maintains a full time services organization that provides all project management, field engineering staff and tier 1 initial support. AMT's CMTS engineer is DOCSIS, Network and ISP trained with over 10 years direct industry experience. AMT's Installation and Cabling engineer has many years of physical installation experience in Tier 1 telecom and cable operators and provides quality of work that exceeds the aesthetic and functional requirements of those operators.

Proposed Deployment Schedule

AMT's proposed deployment engagement would consist of approximately 4 weeks between onsite assessment, design, onsite installation and cabling, CMTS deployment and post deployment monitoring. The installation and cabling would require the installation engineer to be onsite for 1 week and would take place 1-2 weeks before the deployment. The deployment and launch of the E6000 would require the AMT CMTS Engineer to be onsite no less than 1 week.



Section 2 – Technical Proposal

E6000 Benefits

The basic structure and market position of the ARRIS E6000 was provided in the Executive Summary. The Exact Configuration and pricing has been presented in Section 4 – Price and Business Relationship Proposal. Below is a list of benefits of the ARRIS E6000 CER platform:

- Widely deployed worldwide in Tier 1, 2, and 3 operators.
- First CCAP CMTS to market, over 50% worldwide market share.
- Over 3000 E6000 units deployed.
- Full Carrier Class Redundancy within the Chassis.
- Leverages Consistent code string dating back to industry leading previous generation C4 CMTS platform.

Compliance with System Requirements RFP Section 3.0

3.2 – Comply. The AMT Proposal will provide a complete Turn Key replacement of the Existing UBR-10012 with a new ARRIS E6000 CER CMTS.

3.3 – Comply.

With Wyandotte Cable being under contract with Momentum and being supported from a provisioning and NOC standpoint, AMT proposes provide onsite training to focus on CMTS day to day operations and system checks including but not limited to:

1. Verifying online modem counts and status
 - a. Channel bonding
2. Verifying SNR
3. Being to view and understand E6000 configuration
 - a. Service Groups
 - i. US/DS Frequencies
 - ii. Upstream channel width and modulations
 - b. Fiber Nodes
4. Viewing and verifying IP Routing

Section 2 – Technical Proposal – Continued

This training would be conducted onsite during the initial chassis deployment and would consist of up to 8 hours, and is included in the pricing for the overall services engagement. This training combined with Momentum's support services should provide WMS with the ability to manage the E6000 going forward.

If WMS would like to further augment staff training at a later date, ARRIS offers E6000 training courses at their facility in the Atlanta Area at a rate of \$2,000/weekly course per person not including travel and expenses. ARRIS also offers onsite training for up to 8 staff members at a rate of \$15,000/week.

3.4 – Comply.

AMT's Account Management approach is to include the professional services team in the presales process, that way there are no issues when the project is handed from the sales team to the installation team. Once the sale is complete and the installation begins, the process will be handled as follows:

1. Conducting onsite assessment and current system survey
 - a. Includes power verification
2. Creating service group design
3. Creating initial site specific system configuration
 - a. Channel frequencies
 - b. IP Information and Routing
4. Validate new DOCSIS 3.0 configuration with site prior to deployment
 - a. Verify all current and future customer requirements and expectations are met

Installation

1. Coordinate onsite rack, stack and wiring with site once all equipment has arrived
 - a. Site to confirm all equipment has been received
 - b. Site to confirm all space and facilities ready
2. AMT will install all CMTS equipment and wire to the first node as defined in the approved design
 - a. Includes initial chassis turn-up

Deployment

1. AMT will configure the E6000 with the configuration developed and approved during the design
2. AMT will confirm a First Modem Provision
 - a. Validating all the current US/DS bonding
 - b. Validating complete modem online status
3. AMT will coordinate a maintenance window cutover with Momentum
4. AMT will launch new E6000 and will monitor new E6000 for 24 hours onsite
6. All post launch support will be monitored by AMT for up to a week post
7. AMT will facilitate all SLA and Contract information is delivered to site

Section 2 – Technical Proposal – Continued

4.0 – Product Warranties

See Standard Warranty Taken from the product Manual. Included in Appendix A.



Section 3 – Minimum Bidder Qualifications

Bidder shall address the following:

- Bidder has been a CMTS equipment provider for minimum of 10 years.
 - Advanced Media Technologies has been selling CMTS equipment for 10 years.
- Current solution technically significant to form has been commercially available for a minimum of 3 years.
 - The ARRIS E6000 was been commercially available for more than 3 years.
- Describe current financial condition of the bidder's company.
 - Advanced Media Technologies is the largest ARRIS distributor and largest distributor of our type in North America. Advanced Media Technologies is a wholly owned subsidiary of ITOCHU International and is in good financial standing.
- A minimum of 20 current deployments of proposed CMTS model.
 - Advanced Media Technologies has deployed over 20 E6000's. ARRIS has deployed over 3,000 E6000's.
- Only systems with proven deployments that have the capability of supporting minimum 8,000 modems.
 - The E6000 is capable of supporting well in excess of 8000 modems.
- Bidders must identify all hardware, software, license, electrical, design, general & miscellaneous material/equipment, labor and any other requirements associated with a CMTS Replacement 'turn key' project.
 - This proposal includes all necessary Hardware, Licenses, Design, and labor to deploy the CMTS.
 - The Proposal does not include Rack Equipment (at least 40RU of Rack Space is required for CMTS and Power Equipment)
 - The Proposal also assumes that the customer will provide Electrical Service of 4 20A 220vAC Circuits with which the UPS and CMTS will be powered (Power requirements document provided in Section 6).
 - The Proposal Assumes that the customer will provide sufficient cooling to the location of the unit to operate at a standard ambient temperature for Headend Equipment (~75 degrees F).
- The Proposal includes a provision for Misc equipment such as tools, cable fittings, etc that may be deemed necessary during the specific installation in the customer's location.



3150 SW 15th Street
 Deerfield Beach, FL 33442
 Phone: 954-427-2187 x 237
 Fax: 954-427-9688

Section 4 - Price and Business Relationship Proposal

To: City of Wyandotte Reference #: E6000 Proposal																														
Notes: This project represents the Hardware, Software, and Support to deploy an Arris E6000 Converged Edge Router with redundant processors and network interfaces, network interfaces include 8x 10Gbe SFP+ Ports. The chassis contains 12 slots for Cable Access Modules, including redundant CAMs, which can be used in any combination desired. The downstream CAMs are capable today of a maximum of 32 QAMs per port, the upstream CAMs are capable of a maximum of 4 QAMs per port. This configuration represents 48 ports of 16x DOCSIS downstream and 48 ports of 3x DOCSIS upstream. All items are stocked by AMT for immediate shipment, in the rare event that an item is out of stock, a maximum lead time of 45 days is expected.																														
Module Summary: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Active Downstream Modules</td> <td style="text-align: center;">6</td> <td>Active Upstream Modules</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Active Downstream Physical Ports Per Module</td> <td style="text-align: center;">8</td> <td>Physical Upstream Ports per Module</td> <td style="text-align: center;">24</td> </tr> <tr> <td>Active Channels Per Port</td> <td style="text-align: center;">16</td> <td>Licensed Upstream Channels per Module</td> <td style="text-align: center;">72</td> </tr> <tr> <td>Total Downstream Channels</td> <td style="text-align: center;">768</td> <td>Total Upstream Channels</td> <td style="text-align: center;">144</td> </tr> <tr> <td>Redundant Module</td> <td style="text-align: center;">1</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td>Slots Remaining in the Chassis</td> <td style="text-align: center;">2</td> <td>Physical Upstream Ports</td> <td style="text-align: center;">48</td> </tr> </table>							Active Downstream Modules	6	Active Upstream Modules	2	Active Downstream Physical Ports Per Module	8	Physical Upstream Ports per Module	24	Active Channels Per Port	16	Licensed Upstream Channels per Module	72	Total Downstream Channels	768	Total Upstream Channels	144	Redundant Module	1		1	Slots Remaining in the Chassis	2	Physical Upstream Ports	48
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Line	Brand	Part Number	Description	QTY	Item Price	Total																								
1	Chassis Components & Power Supplies																													
2	ARRIS	801023	E6000 CER Duplex Chassis Kit - Two RSMs, No CAMs, Release 1.x	1	\$ 59,693.00	\$59,693.00																								
3	These Components Make up the 128DCAM Kit																													
4	ARRIS	781247	E6000 CER 96 DS DCAM Kit (Active) - 1 DCAM, Active DCAM PIC, and 96 DOCSIS DS Licenses, Licenses are Non-Recurring one time Charges.	6	\$ 17,908.00	\$107,448.00																								
5	ARRIS	781304	E6000 CER Annex B 32 DOCSIS DS License Bundle, Licenses are Non-Recurring one time Charges.	6	\$ 5,899.00	\$35,614.00																								
6	These Components Make up the 72UCAM Kit																													
7	ARRIS	799008	E6000 CER 48 US UCAM Kit (Active) - 1 UCAM, Active UCAM PIC, and 48 DOCSIS US Licenses, Licenses are Non-Recurring one time Charges.	2	\$ 27,857.00	\$55,714.00																								
8	ARRIS	781268	E6000 CER 24 US License Bundle, Licenses are Non-Recurring one time Charges.	2	\$ 4,974.00	\$9,948.00																								
9	ARRIS	781314	E6000 CER GE Power Supply Assembly, High Line, 250VAC (5450W) Note: Power Cords must be ordered separately for correct region and voltage application Not Required if DC Power is available. Requires 1 for 220vAC, 2 for 110vAC	1	\$ 3,613.00	\$3,613.00																								
10	TrippLite	SU5000RT3UHV	5RU SmartOnline 208/240v 5KVA 3.5kW UPS. Nema L6-30R Input Connectors to Wall, 2xL6-20R Outputs.	2	\$ 2,813.00	\$5,626.00																								
11	TrippLite	P040-006	6' L6-20P to C19 Power Cables, to connect UPS to GE Rectifier Shelf	4	\$ 16.00	\$64.00																								
12	ARRIS	801147	E6000 CER SFP+ Optical Interface, 10GBASE-SR, 850nm	4	\$ 149.00	\$596.00																								
13	ARRIS	802445K	DCAM INSTALLATION KIT: INCLUDES ONE 180 INCH BLACK 8 PACK HARNESS, TERMINATED AT ONE END WITH DIGICON MINI F MALE COMPRESSION CONNECTORS, A BAG OF 10 DIGICON MINI F MALE COMPRESSION CONNECTORS, AND A 5 YD BLACK VELCRO SPOOL.	6	\$ 124.47	\$746.80																								
14	ARRIS	802446K	UCAM INSTALLATION KIT: INCLUDES THREE 180 INCH BLACK 8 PACK HARNESSES, TERMINATED AT ONE END WITH MCX MALE COMPRESSION CONNECTORS, A BAG OF 25 DIGICON MINI F MALE COMPRESSION CONNECTORS, AND THREE 5 YD BLACK VELCRO SPOOLS.	2	\$ 436.83	\$873.66																								

15	AMT	TBD	Ancillary Installation Tools and Equipment that may be required to complete the installation per the RFP, including but not limited to Tools, Rack Equipment, Cabling and Cable Mangement, etc.	1	\$	1,000.00	\$1,000.00
16	Redundant Hardware						
17	ARRIS	Note:	The Chassis Kit Above includes Redundant RSMs				\$0.00
18	ARRIS	781248	E6000 CER 06 DS DCAM Kit (Spare) - 1 DCAM, Spare DCAM PIC, and 96 DOCSIS DS Licenses. Licenses are Non-Recuring one time Charges.	1	\$	17,908.00	\$17,908.00
19	ARRIS	781304	E6000 CER Annex B 32 DOCSIS DS License Bundle. Licenses are Non-Recuring one time Charges.	1	\$	5,969.00	\$5,969.00
20	ARRIS	801026	E6000 CER 48 US UCAM Kit (Spare) - 1 UCAM, Spare UCAM PIC, and 48 DOCSIS US Licenses. Licenses are Non-Recuring one time Charges.	1	\$	27,857.00	\$27,857.00
21	ARRIS	781268	E6000 CER 24 US License Bundle. Licenses are Non-Recuring one time Charges.	1	\$	4,974.00	\$4,974.00
22	Installation Services						
23	AMT	Prof Service	Installation Services: Includes 1 Day onsite pre-design assessment, pre launch Service Group Migration Design, Onsite Configuration, Testing, and First Modem Provisioning Support. Includes Training as Described in Section 2-3.3 of RFP. Includes Travel and expenses.	1	\$	12,500.00	\$12,500.00
24	AMT	Prof Service	CMTS, UPS, and Rectifier Installation in Rack, connecting to Rectifier to UPS, CMTS to Rectifier, and Wiring Coax cabling to combining network based on Service Group Design. Includes Travel and Expenses	1	\$	7,500.00	\$7,500.00
25	Competitive Trade in Credit						
26	ARRIS	801182	Buyback Credit - Maximum of 1 credit with Competitive CMTS replaced and E6000 duplex chassis kit purchased. Customer must return CMTS to Arris or certify it's destruction to receive credit. Requires Minimum 6 CAM Fill.	1	\$	(19,624.70)	-\$19,624.70
27	SLA: Firmware Upgrades & Technical Support						
28	ARRIS	801169	E6000 Gold Support, 7x24 Tech support, SW updates, SW upgrades, Required at time of Purchase, Annual Renewal	1		7%	\$23,649.11
29	ARRIS	801165	E6000 Advance Replacement 2nd Bus Day Ship, Optional, Annual Renewal	1		3%	\$10,135.33

Total

\$372,004.20

Appendix A - Collusion Affidavit and Proposal Forms

Collusion Affidavit: Form No. 1

The Affidavit set forth below must be executed on behalf of the Contractor and furnished with each Proposal.

State of Florida
County of Broward

Ken Mosca, being duly sworn, deposes and says he/she is the President/CEO of Advanced Media Technology, the Contractor, which has submitted, on or about the 22 day of April, 2016 or will submit to Wyandotte Municipal Services, Wyandotte, Michigan, a proposal for CMTS Replacement (item being Proposal), all as fully set forth in said proposal and that except as specified below, the aforementioned Contractor constitutes the only person, firm or corporation having any interest in said Proposal or in any contract, benefit or profit which may, might or could accrue to grow out of the acceptance in whole or in part of said proposal, said exceptions being as follows:

No exceptions
(If no exceptions, please state)

Affiant further states that said proposal is in all respects fair and is submitted without collusion or fraud; and that no member of the Wyandotte City Council, Wyandotte Municipal Service Commission, officer or employee of said City of Wyandotte is directly or indirectly interested in said Proposal.

[Signature]
(Affiant)

SWORN TO and subscribed before me, a Notary Public, in and for the above named State and County this 22nd day of April, 2016

[Signature]



Proposal Bond: Form No. 2

NOTE: The following Proposal bond, or a cashier's or certified check in lieu thereof, must be executed and furnished with each Proposal, in an amount of \$150 or ten percent (10%) of the total Proposal price, whichever is greater. (If Contractor is not a corporation, cross out inappropriate wording).

KNOW ALL MEN BY THESE PRESENTS: That we, Advanced Media Technologies, Inc., a corporation organized and existing under the laws of the State of Florida as Principal, and American Home Assurance Company a surety company qualified to do business in the State of Michigan, as Surety, are hereby held and bound unto the Municipal Service Commission of the City of Wyandotte, Michigan, as Obligee, in the sum of Ten Percent of bid amount & no/100 (10% of bid amount), for the payment of which we do well and truly and jointly and severally bind ourselves and our respective successors assigns.

DATED as of the 20th day of April, 2016.

The conditions of this obligations are such: That whereas the above bound principal has submitted on or about the 20th day of April, 2016 or will submit to the Obligee a proposal for Wyandotte Municipal Services CMTS Replacement Project Bid Number 4685, more fully described in said proposal, which proposal is, by reference, incorporated in and made part of this instrument.

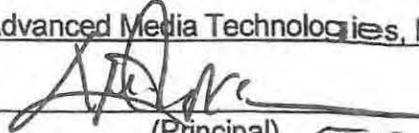
NOW THEREFORE: If said Principal shall, upon acceptance of said proposal, either in whole or in part, enter into an appropriate contract with said Obligee for Wyandotte Municipal Services CMTS Replacement Project Bid Number 4685, said proposal and concurrently with the execution of said contract give bond, as required by said Obligee, for the full and faithful performance and keeping all the provisions, terms, requirements, covenants and warranties of said contract, then this obligation shall be void; otherwise, the same shall remain in full force and effect.

WITNESS the corporate hands and seals of the said Principal and said Surety as of the date first above written.

Proposal Bond: Form No. 3

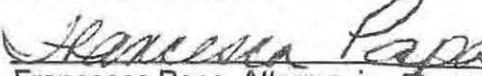
Advanced Media Technologies, Inc.

By:


(Principal) CEO

American Home Assurance Company

By:


Francesca Papa, Attorney-in-Fact (Surety)

(Power of Attorney of Surety's attorney-in-fact should be attached.)

ACKNOWLEDGEMENT OF ANNEXED INSTRUMENT

STATE OF NEW YORK

COUNTY OF NEW YORK

On April 20, 2016 before me, the undersigned, a Notary Public in and for said county, personally Appeared Francesca Papa, who is to me well known, who being duly sworn, did depose and say that he resides in New York, NY that he is Attorney-in-Fact of American Home Assurance Company a corporation, the corporation described in and who executed the within instrument as surety. That he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was thereto affixed by order to the Board of Directors of said corporation, and that he signed his name thereto by like order.

Migdalia Otero

MIGDALIA OTERO
Notary Public, State of New York
No. 010T6316321
Qualified in Kings County
Commission Expires December 8, 2018

POWER OF ATTORNEY

American Home Assurance Company
National Union Fire Insurance Company of Pittsburgh, PA.
Principal Bond Office: 175 Water Street, New York, NY 10038

Power No. 28818

No. 01-B-08042

KNOW ALL MEN BY THESE PRESENTS:

That American Home Assurance Company, a New York corporation, and National Union Fire Insurance Company of Pittsburgh, PA, a Pennsylvania corporation, does each hereby appoint

--Peter Healy, Mary Lawrence, James Holland, Theresa Giraldo,
Vincent Moy, Francesca Papa, William Morrissey, Terry Ann Gonzales-Selman, of New York, New York--

its true and lawful Attorney(s)-in-Fact, with full authority to execute on its behalf bonds, undertakings, recognizances, and other contracts of indemnity and writings obligatory in the nature thereof, issued in the course of its business, and to bind the respective company thereby.

IN WITNESS WHEREOF, American Home Assurance Company and National Union Fire Insurance Company of Pittsburgh, PA, have each executed these presents:

this 7th day of March, 2016



Michael C. Fay

Michael C. Fay, Vice President

STATE OF NEW YORK }
COUNTY OF NEW YORK } ss.

On this 7th day of March, 2016 before me came the above named officer of American Home Assurance Company and National Union Fire Insurance Company of Pittsburgh, PA, to me personally known to be the individual and officer described herein, and acknowledged that he executed the foregoing instrument and affixed the seals of said corporations thereto by authority of his office.

Juliana Hallenbeck

JULIANA HALLENBECK
Notary Public - State of New York
No. 01HA8125671
Qualified in Bronx County
My Commission Expires April 18, 2017

CERTIFICATE

Excerpts of Resolutions adopted by the Boards of Directors of American Home Assurance Company and National Union Fire Insurance Company of Pittsburgh, PA, on May 18, 1976

"RESOLVED, that the Chairman of the Board, the President, or any Vice President be, and hereby is, authorized to appoint Attorneys-in-Fact to represent and act for and on behalf of the Company to execute bonds, undertakings, recognizances and other contracts of indemnity and writings obligatory in the nature thereof, and to attach thereto the corporate seal of the Company, in the transaction of its surety business;

"RESOLVED, that the signatures and attestations of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company when so affixed with respect to any bond, undertaking, recognizance and other contract of indemnity and writing obligatory in the nature thereof;

"RESOLVED, that any such Attorney-in-Fact delivering a secretarial certification that the foregoing resolutions still be in effect may insert in such certification the date thereof, said date to be not later than the date of delivery thereof by such Attorney-in-Fact."

I, Martin Bogue, Assistant Secretary of American Home Assurance Company and of National Union Fire Insurance Company of Pittsburgh, PA, do hereby certify that the foregoing excerpts of Resolutions adopted by the Boards of Directors of these corporations, and the Powers of Attorney issued pursuant thereto, are true and correct, and that both the Resolutions and the Powers of Attorney are in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the facsimile seal of each corporation



this 20 day of April, 2016

Martin Bogue

Martin Bogue, Assistant Secretary

American Home Assurance Company

Executive Offices
175 Water Street
New York, NY 10038

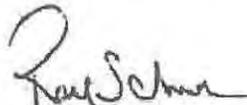
**STATUTORY
FINANCIAL STATEMENT
as of DECEMBER 31, 2015**

Assets		Liabilities	
Bonds.....	\$ 16,338,890,432	Reserve for Losses and Loss Expense.....	\$ 13,170,909,334
Stocks.....	277,998,251	Reserve for Unearned Premiums.....	3,180,709,950
Cash & Short-Term Investments.....	131,195,277	Reserve for Expenses, Taxes, Licenses and Fees.....	238,131,835
Other Invested Assets	5,347,909,012	Provision for Reinsurance.....	84,266,349
Agents' Balances or Uncollected Premiums....	1,714,001,178	Funds Held Under Reinsurance:	
Funds Held by Ceding Reinsurers.....	183,889,240	Treaties.....	1,378,845,798
Reinsurance Recoverable on Loss Payments.	337,695,238	Other Liabilities.....	1,480,232,417
Equities & Deposits in Pools & Associations.	12,106,360	TOTAL LIABILITIES.....	19,463,095,683
Other Admitted Assets.....	1,760,410,583	Capital Stock.....	28,815,918
		Surplus.....	6,611,983,970
TOTAL ASSETS	\$ 26,103,895,571	TOTAL POLICY HOLDERS' SURPLUS.....	6,640,799,888
		TOTAL LIABILITIES AND POLICYHOLDERS' SURPLUS	\$ 26,103,895,571

Bonds and stocks are valued in accordance with the basis adopted by the National Association of Insurance Commissioners. Securities carried at \$726,436,692 in the above statement are deposited as required by law or otherwise pledged.

CERTIFICATE

Robert Scott Higgins Schimek, President, and Joseph Daniel Cook, Chief Financial Officer, of American Home Assurance Company being duly sworn, each for himself deposes and says that they are the above described officers of the said Company and that on the 31st day of December, 2015, the Company actually possessed the assets set forth in the foregoing statement and that such assets were available for the payment of losses and claims and held for the protection of its policyholders and creditors, except as hereinbefore indicated, and that the foregoing statement is a correct exhibit of such assets and liabilities of said Company on the 31st day of December, 2015, according to the best of their information, knowledge and belief respectively.


President

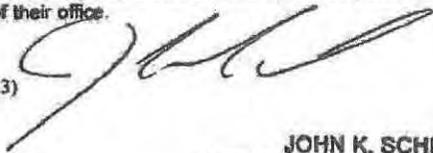

Chief Financial Officer

STATE OF NEW YORK
COUNTY OF NEW YORK

)} ss.:

On this 27 day of March 2016, before me came the above named officers of American Home Assurance Company to me known to be the individuals and officers described herein, and acknowledged that they executed the foregoing instrument and affixed the seal of said corporation thereto by authority of their office.

31078 (3/03)



JOHN K. SCHILD
Notary Public, State of New York
No. 01SC5053075
Qualified in Kings County
Commission Expires December 11, 2017

CONTRACT BOND REQUEST



Request Date: 4/19/2016

Requester: Anthony Dart or Alain Lee
Company: Advanced Media Technologies, Inc
Address: 3150 SW 15 St
Deerfield Beach, FL 33442
Phone: 954-427-5711 Fax:
Email: alee@amt.com

Recipient Name and Address: (if different than requester)
Company:
Address:
Phone: Fax:
Email Address:

DATE BOND IS NEEDED: April 22, 2016

TYPE & AMOUNT OF BOND: (Unless otherwise indicated, Perf & Payment bonds will be issued at 100% of Contract Amt.)

Bid 10%/\$ Performance ___%/\$ Payment ___%/\$ Maintenance/Warranty ___%/\$
 Other (Please Specify) Letter of Intent Supply Only Advance Payment Subdivision/Completion

BID DATE CONTRACT DATE
April 28, 2016 (Date)

CONTRACT AMOUNT: \$ 380,566.38
(Estimated Contract Amount if requesting a Bid Bond)

JOB NAME / DESCRIPTION:

Wyandotte Municipal Services

CMTS Replacement Project
Bid Number 4685

General Contractor Names & Address (if different than Obligee):

PRINCIPAL NAME & ADDRESS

Advanced Media Technologies, Inc.
3150 SW 15th Street
Deerfield Beach, FL 33442

OBLIGEE NAME & ADDRESS

Municipal Service Commission of the City of Wyandotte, MI
3200 Biddle Avenue
Wyandotte, MI 48192

BOND FORM: *Owner Form Surety Form
 Other (AIA or Federal)
Multi-Year Contracts - Does the contract include a provision allowing the bond to annually renew? Yes No
If owner's or other form provided, is it annually renewable? Yes No
*All owner bond forms must be attached (bid, performance, payment and warranty/maintenance etc...) to this request form for approval before the bid bond can be authorized.

WARRANTY/MAINTENANCE PERIOD:

Standard Defects in Workmanship and Materials
 Efficient or Successful Operations
 Special Warranty Provisions Yes No
(If yes, please describe below in the space provided - duration > 12 mos, separate bond requirements, etc.)

RETAINAGE %

LIQUIDATED DAMAGES: Yes No
If yes, amount \$

PAYMENT TERMS: Monthly
 Milestones
 Upon Completion
 Advance Payment - \$

COST BREAKDOWN:

Materials	\$
Major Equipment	\$
Labor	\$
Subcontractor Costs	\$
Profit	\$
Total	\$

ESTIMATED COMPLETION

Days Calendar Working

Anticipated Start Date: 5/18/16 Date of Completion:

OF ORIGINAL BONDS NEEDED

You will receive One (1) original unless otherwise indicated.

MAINTENANCE GUARANTEE

Yes No How Long?

HAS CONTRACT BEEN SIGNED? Yes No

ADDITIONAL COMMENTS OR INSTRUCTIONS:

URGENT (Please process overnight) Other:

Please fax or email completed bond request form and all related documents to the Marsh Primary Service Representative below.

INSERT PRIMARY SERVICE REPRESENTATIVE

Marsh USA

Phone: Insert Phone Number

Fax: Insert Fax Number

E-mail: Insert Email address



CERTIFICATE OF LIABILITY INSURANCE

OP ID: 1

DATE (MM/DD/YYYY)

04/20/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Marsh JCS Inc. 1166 Ave. of the Americas New York, NY 10036		CONTACT NAME: PHONE (A/C, No, Ext): _____ FAX (A/C, No): _____ E-MAIL ADDRESS: _____ PRODUCER CUSTOMER ID #: IIIAD-1	
INSURED Advanced Media Technologies 3150 SW 15th Street Deerfield Beach, FL 33442		INSURER(S) AFFORDING COVERAGE INSURER A : Tokio Marine America Insurance NAIC # 10945 INSURER B : Mitsui Sumitomo Marine & Fire INSURER C : Mitsui Sumitomo Ins Group INSURER D : INSURER E : INSURER F :	

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

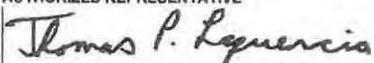
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC	X	CLL6403455-05	06/30/2015	06/30/2016	EACH OCCURRENCE	\$ 1,000,000
						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 500,000
						MED EXP (Any one person)	\$ 10,000
						PERSONAL & ADV INJURY	\$ 1,000,000
						GENERAL AGGREGATE	\$ 2,000,000
						PRODUCTS - COMP/OP AGG	\$ 1,000,000
							\$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS	X	BVR8302197	01/01/2016	01/01/2017	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
						BODILY INJURY (Per person)	\$
						BODILY INJURY (Per accident)	\$
						PROPERTY DAMAGE (PER ACCIDENT)	\$
							\$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DEDUCTIBLE <input checked="" type="checkbox"/> RETENTION \$ 10,000	X	CU6406757-02	06/30/2015	06/30/2016	EACH OCCURRENCE	\$ 5,000,000
						AGGREGATE	\$ 5,000,000
							\$
							\$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	WCP9108740	01/01/2016	01/01/2017	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER	
						E.L. EACH ACCIDENT	\$ 1,000,000
						E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
						E.L. DISEASE - POLICY LIMIT	\$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Wyandotte Municipal Services is included as Additional Insured where required by written contract or agreement. Waiver of Subrogation is applicable where required by written contract or agreement.

CERTIFICATE HOLDER**CANCELLATION**

Wyandotte Municipal Services 3200 Biddle Avenue, Ste 200 Wyandotte, MI 48192	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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Section 6 – Appendix

Include relevant material needed to illuminate proposal content. This shall include but not limited to annual report summary, project plans, deployment schedules, resumes of key personnel, references, product brochures and specifications, etc.

See Section 2 Technical Proposal regarding Project Plans and Deployment Schedules.

Key Personnel

Anthony Dart – Sales, National Accounts

Anthony has been employed with AMT for over 8 years and specifically focuses on NCTC members. He has managed the City of Wyandotte account since he started at AMT. Anthony was part of the AMT Team that responded to and won the WMS Digital Bandwidth Reclamation Project in 2012. He worked very closely with the WMS Team to ensure a timely and successful launch. Anthony has since helped WMS with additional video upgrades as well as DTA deployment. Since 2013 Anthony has completed over 20 CMTS deployments including but not limited to the ARRIS E6000.

Eric Gudgel – Sales Engineering Manager

Eric has been employed with AMT for over 4 years and focuses on creating solutions and proposals to AMT's Cable Television division, as well as managing the Sales Engineering team that serves AMT's IPTV, Access Networks, and Private Cable Divisions. Eric was part of the AMT Team that responded to and won the WMS Digital Bandwidth Reclamation Project in 2012. With AMT Eric also serves as the program manager for the CMTS product line and has designed CMTS solutions for over 50 operators. Prior to AMT, Eric was the Network Engineering Manager for a Top 25 Cable Television MISO for 15 years, where he was responsible for designing and implementing Digital Video and CMTS solutions for over 40 headends serving approximately 250,000 subscribers across 10 states.

Michael Citrigno- Director, Professional Services

Michael has been an AMT employee for over 3 years. His focus has been pre-sales support, service delivery and post-delivery support of all internally and vendor delivered professional services. Michael has over 20 years industry experience with a heavy background in high-speed data and networking. Prior to AMT, Michael came from a Tier 1 bringing an operational background that was focused on testing and launching new voice, video and data products and has helped streamline and facilitate CMTS deployments from various vendors with primary focus on the Arris product line.

John Barbieri - Field Services Engineer

John has been an employee of AMT for two years. His focus is on anything related to CMTSs and DOCSIS. When not onsite installing CMTSs at customers' locations, he is AMT's go-to guy for anything DOCSIS or CMTS related. John has been in the industry for twelve years, with ten of those years specifically on CMTS and DOCSIS. Prior to AMT, John worked as a Senior DOCSIS engineer for a hosted OSS company, and before that, worked at a top 25 cable MSO in New England.

References

Josh Francis
Network Manager
Glasgow Electric Plant Board
270-651-8341
jfrancis@glasgow-ky.com

Bobby Williams
Network Manager
Hart Telephone CO
706-856-2262
Bobbyr@hartcom.net

Lynn Root
Network Manager
Cunningham Communications
lynnctc@nckcn.com
785-545-3215

Craig Yohn
Operations Manager
Nittany Media, Inc.
717-248-3733
cyohn@nmax.net

Product Specifications – See Next Page

ARRIS E6000 GENERAL LAYOUT AND CONFIGURATION



ARRIS E6000 CONVERGED EDGE ROUTER													
Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13
CABLE ACCESS MODULE (CAM) SLOT	CABLE ACCESS MODULE (CAM) SLOT	CABLE ACCESS MODULE (CAM) SLOT	CABLE ACCESS MODULE (CAM) SLOT	CABLE ACCESS MODULE (CAM) SLOT	CABLE ACCESS MODULE (CAM) SLOT	Optional Redundant RSM (Router System Module) 10G 10G 10G 10G 10G 10G 10G 10G	RSM (Router System Module) 10G 10G 10G 10G 10G 10G 10G 10G	CABLE ACCESS MODULE (CAM) SLOT					
PEM – (Power Entry Module) DC POWER SUPPLY						PEM – (Power Entry Module) DC POWER SUPPLY							

- Downstream Module
- 8x F Connectors
- 8-32 SC-QAM 3.0 Channels Per port + 3.1 OFDM Block
- CCAP License Available for VOD, SWITCHED
- 7:1 Hitless Sparing
- **All Ports Connect directly to downstream combining network (no edge QAM or RF Switch required)**



- All RF Cabling is on the rear of the chassis.
- All Uplink (10G) wiring is on the front of the chassis.
- The DC Power cables connect on *the rear of the* chassis.
- The AC-DC Rectifier Shelf is a 1RU external device requiring 4x 220vAC Inputs.

CABLE ACCESS MODULES (CAM)

UCAM Module

- Upstream Module
- 24x MCX Connectors
- 2-4 Upstream Channels Per port
- 6:1 Hitless Sparing
- **Return combining network connects directly to UCAM**

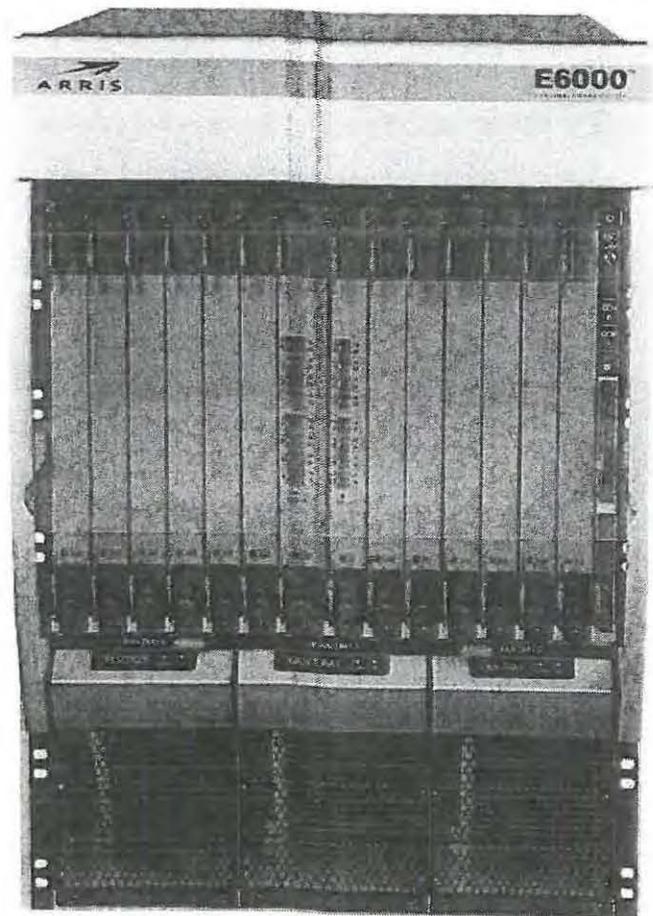
Approved by:	DATE:	REV:	DESCRIPTION:
Accepted by:			

Company:	Northwest Telecom - Tripp
Site:	Tab: E6000 Chassis Diagram
Star:	Design by: Eric Guadagnoli
Scale:	1" = 1"
Page:	Chassis Layout
File:	Date: 4/25/2016



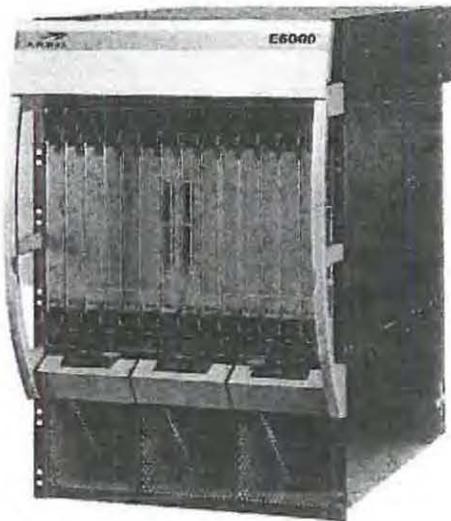
E6000™ CER

CONVERGED EDGE ROUTER



PRODUCT OVERVIEW:

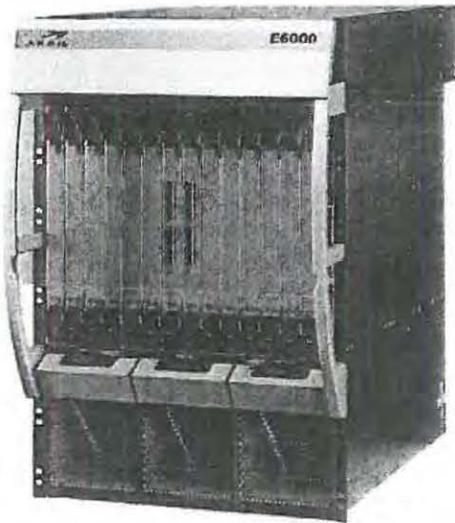
The E6000 Converged Edge Router (CER) is a next-generation CCAP-ready platform that provides cable operators unprecedented advances in channel density, power efficiency, and **cost savings in a redundant, integrated architecture** designed from the ground up for high availability. Operators deploy the E6000 today as a dense, high-availability CMTS for data and voice services. ARRIS will deliver a series of software upgrades beginning in early 2015 that will provide for Integrated Edge QAM (IEQ) functionality with today's E6000 CER hardware. The E6000 CER software is based on that of the C4 CMTS, meaning that the E6000 benefits from over ten years of refinements in stability, hitless failover, and performance at high scale. This software re-use also provides the E6000 CER with a proven set of features for IPv6. No other CCAP-ready platform today enjoys a proven software code base for these critical functional areas.



Release 1.1 provides an additional set of CMTS capabilities for the E6000 CER. Operators deploying the E6000 CER with Rel. 1.1. software will be able to double their downstream channel density – with no hardware changes – simply by applying a license available for ARRIS. This is another example of the tremendous advantages in rack space savings, power efficiency, and price per downstream that the E6000 CER provides. A number of additional features in Rel. 1.1 provide operational enhancements for cable operators, including Multi-Protocol BGP with IPv6 Address Family Support, Automated Hitless Patching, Multi-Tuner Cable Modem Support, and others.

FEATURES

- Enhanced Scaling
- 32 Annex B / 24 Annex A QAMs per F
- Extended modem Tx power for USCB
- Dual Shared Secret
- Enhanced USCB Scaling per CAM
- Integrated Service Class Agility
- Dynamic Service Class Modifications
- IPv6 PCMM for Voice Services
- Upstream Drop Classifier Support
- Support for Modem Loss of AC Power
- Improved Partial Service
- PBR Recursive Next Hop
- DSG Reset to Null
- TCS Optimization for Static Upstream Bonding Groups
- Multi-tuner Cable Modem Support
- IS-IS Point-to-Point Adjacencies
- IS-IS Dynamic Hostname Support
- RADIUS Authentication
- CM Status SOR Handling
- Annex A Mixed 256 QAM / 64 QAM per F Connector
- Automated Hitless Patching
- Load Balancing via SNMP MIB
- UCAM Hitless Sparring Expansion to 6+1
- MP-BGP + IPv6 Address Family
- Secure NTP
- Intelligent Channel Optimizer (ICO) Support
- Copy FTP Source IP on Same Command Line
- IPv6 Route Scaling Enhancement
- Intelligent RCS Assignment/Balancing Control

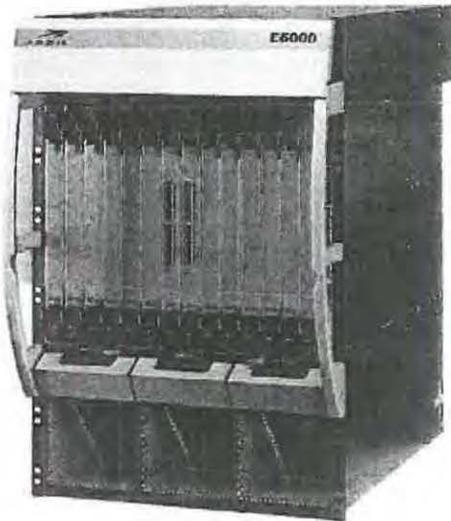


Managing the E6000 CER is typically done via the SNMP or CLI interfaces. The E6000 has multiple options available for IPDR, a useful tool for measuring bandwidth usage. Physical maintenance of the E6000 is very simple. Air filters, one in the front and another in the rear of the chassis, should be inspected and/or replaced per recommendations in the E6000 CER User Guides.

GENERAL SPECIFICATIONS

RF Downstream	
Frequency Range (MHz)	57 to 999 (DOCSIS 3.0); 90 to 1002 (EuroDOCSIS 3.0)
Modulation (QAM)	64, 256 (256 Only in Release 1.1)
Data Rate (Mbps) (Max.)	30.34 to 55.62 per channel (42.89 to 55.62 in Release 1.0)
RF Output Level (dBmV)	41 to 60
Typical Modulation Error Ratio (MER) (dB)	47
Symbol Rate (Msym/sec)	5.361 (DOCSIS); 6.952 (EuroDOCSIS)
Bandwidth (MHz)	6 (DOCSIS), 8 (EuroDOCSIS)
Output (load) impedance (ohms)	75
Physical	
Power	-48 VDC (-40 to -72 VDC)
Power Consumption (full-fill system)	3,800 W nominal at -48 VDC, 77°F (25°C)
Operating Temperature:	
Short Term °F (°C)	+23 to +131 (-5 to +55)
Long Term °F (°C)	+41 to +104 (+5 to +40)
Storage Temperature °F (°C)	-40 to +158 (-40 to +70)
Operating Humidity (Min.-Max.)	5 to 85% (Non condensing)
Dimensions (H x W x D) in. (cm)	13.8 x 1.2 x 17.8 (35.0 x 3.0 x 45.3)
Weight lbs. (kg) (full-fill system)	approx. 235 (107)

RF Upstream	
Frequency Range (MHz)	5 to 85 (5 to 65 with Software Release 1.0)
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM (No 8 QAM Support in Release 1.1)
Channel Type	TDMA, ATDMA, TDMA/ATDMA, SCDMA (No SCDMA Support in Release 1.1)
Data Rate (Mbps) (Max.)	30.72 per channel
RF Input Level (dBmV)	-16 to +29
Frequency Resolution (KHz)	< 1
Symbol Rate (Ksym/sec)	160, 320, 640, 1280, 2560, 5120
Bandwidth per Channel (MHz)	0.2, 0.4, 0.8, 1.6, 3.2, 6.4
Installation Environment	
Management Interfaces	10/100/1000 Mbps Ethernet (RJ-45) plus Console (serial port, RJ45)
Network-side Interfaces	10 Gigabit Ethernet (SFP+) auto-baud, eight per card
Connector Access	NSI Ethernet ports via front of chassis, management ports via rear (RSM PIC)
Management Access	
In-band Management with Access Control Lists via any NSI port	
Out-of-Band Management via dedicated Ethernet port on RSM PIC	
Console (serial) port on RSM PIC	
Future Capabilities (not supported in Release 1.1)	
Dedicated Ethernet interface on RPIC for Conditional Access System (CAS)	
Active and Stand-by DTI interfaces on RPIC	



The E6000 CER provides cable operators with unprecedented efficiencies in DC power consumption per downstream channel. This leads to reduced powering and cooling requirements for the operators' facilities, which can provide significant savings in operational and capital expenditures.

SOFTWARE RELEASE 1.1 FEATURES (PARTIAL LISTING)

DCAM	Policy-Based Routing
8 RF (F-Connectors) per slot	24 Channel Bonding (Downstream)
256 Channels (Annex B) per card	Four Channel Bonding (Upstream)
192 Channels (Annex A) per card	BGPv4, MP-BGP with IPv6 Address Fam.
Max 32 Channels per RF connector	PacketCable™ Multimedia Support
Up to 7+1 RF Sparing	Dynamic Cable Modem Load Balancing
IPv6 Features	SII Lawful Intercept (RFC 3924)
Cable modem management	802.1Q VLAN tagging
Dual-Stack CPE	Extended ACLs & Named ACLs
IS-IS Routing with Multi-topology support	Secure Shell v2 (SSHv2)
Cable Source Verify with DHCP Lease Query	Automated Hitless Patching
Prefix Delegation Route Injection	DHCP Relay Agent (Option 82)
OSPFv3	DNS Client
Prefix Stability	TFTP Enforce and Dynamic Shared Secret
Distribute Lists	BSoD L2 VPN
TFTP Enforce / Dynamic Shared Secret	BPI+ Enforce
DS and US Subscriber Management Filters	IPDR/SP
DOCSIS 3.0 Multicast IP Video Support (via IGMPv3 Control)	CM Status SOOR Support
Extended CM TX Power Support	DSG Reset to Null
Integrated Service Class Agility	Multi-Tuner CM Support

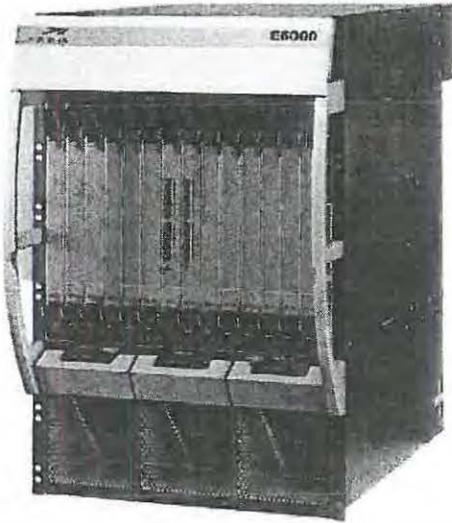
ORDERING INFO (RELATIVE)

801023	Duplex Chassis Kit - Two RSMs, No CAMs, Rel. 1.x
801022	Simplex Chassis Kit - One RSM, No CAMs, Rel. 1.x
799012	Router System Module Kit - 1 RSM and RSM PIC
796836	Router System Module (796836)
796847	RPIC - Physical Interface Card for RSM (796847)
801146	SFP+ Optical Interface, 10GBASE-LR/LW, 1310nm
801147	SFP+ Optical Interface, 10GBASE-SR, 850nm
781346	SFP+ Optical Interface, 10GBASE-ER, 1550nm
781347	SFP+ Optical Interface, 10GBASE-ZR, 1550nm
801025	128 DS DCAM Kit (Active) - 1 DCAM, Active DCAM PIC, and 128 DOCSIS DS Licenses
801021	128 DS DCAM Kit (Spare) - 1 DCAM, Spare CAM PIC, and 128 DOCSIS DS Licenses
799011	64 DS DCAM Kit (Active) - 1 DCAM, Active DCAM PIC, and 64 DOCSIS DS Licenses
801019	64 DS DCAM Kit (Spare) - 1 DCAM, Spare CAM PIC, and 64 DOCSIS DS Licenses
802117	128 DS DCAM Kit (Active) - 1 DCAM, Active DCAM PIC, and 128 EuroDOCSIS DS Licenses
802118	128 DS DCAM Kit (Spare) - 1 DCAM, Spare DCAM PIC, and 128 EuroDOCSIS DS Licenses
801169	E6000 Software Maintenance – Phone Plus Gold

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ORDERING INFORMATION (CONTD)

Part Number	Description
781304	Annex B 32 DOCSIS DS License Bundle
781296	Annex A 32 EuroDOCSIS DS License Bundle
799008	48 US UCAM Kit (Active) - 1 UCAM, Active UCAM PIC, and 48 DOCSIS US
801026	48 US UCAM Kit (Active) - 1 UCAM, Active UCAM PIC, and 48 DOCSIS US
781245	72 US UCAM Kit (Active) - 1 UCAM, Active UCAM PIC, and 72 DOCSIS US
781246	72 US UCAM Kit (Spare) - 1 UCAM, Spare UCAM PIC, and 72 DOCSIS US
802221	96 US UCAM Kit (Active) - 1 UCAM, Active UCAM PIC, and 96 DOCSIS US
802222	96 US UCAM Kit (Spare) - 1 UCAM, Spare UCAM PIC, and 96 DOCSIS US
781268	24 US License Bundle - applicable only with 48 & 72 US UCAM Kits
801062	48 US License Bundle - applicable only with 48 US UCAM Kits

Full price list available from ARRIS.

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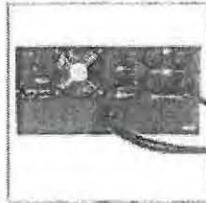
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Tripp Lite
1111 W. 35th Street
Chicago, IL 60609 USA
Telephone: 773.869.1234
www.tripp-lite.com

SmartOnline 208/240V 5kVA 3.5kW Double-Conversion UPS, 5U Rack/Tower, Extended Run, SNMPWEBCARD Option, DB9 Serial

MODEL NUMBER: SU5000RT3UHV



Description

Tripp Lite 5kVA Smart Online RM UPS. 5000VA on-line, double-conversion UPS for server, network and telecommunications equipment. Maintains battery derived AC output during blackouts with active, full-time power conditioning. Fault-tolerant auto-bypass prevents unexpected service interruptions during overload or internal fault conditions. 3U power module and 2U battery pack install in 5 rack spaces. Full-time sine wave output within 2% of selectable 200/208/220/230/240V AC. Corrects brownouts to 156V and overvoltages to 276V. Frequency regulation locks output power to 50/60Hz(+/-0.2%)/Expandable runtime with optional rackmount external battery packs. Double-conversion UPS converts raw input from AC to DC, then back to perfect sine wave AC output with enhanced protection from harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types. Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs. Network-grade AC surge and noise suppression. Network management interfaces include 2 DB9 ports and SNMPWEBCARD slot. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off(EPO) interface. Front panel LEDs and LCD readout with scroll controls support visual monitoring of all major UPS functions. Audible alarm. Self test. 4-post rackmount accessories included; 2-9U STAND and 2-POST RM KITHD accessories available. L6-30P plug-in connection; built-in L6-30 & L6-20 outlets. Power Distribution Unit(PDU) options supported. Field-replaceable, hot-swappable external battery packs. Attractive all-black color scheme.\$250,000 Ultimate Lifetime Insurance(U.S., Canada, and Puerto Rico only).

Features

- True online, double-conversion UPS provides pure, full-time sine wave AC output free of surges, voltage fluctuations and line noise
- 5000VA/3500 watt output power capacity compatible with 200-240V applications at 50/60 Hz
- 3U power module and 2U battery pack installs in any 19 inch rack enclosure using only 5 rack spaces
- Double conversion UPS actively converts raw input from AC to DC, then back to perfect sine wave AC output with enhanced protection from harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types
- Provides perfectly regulated, sine wave output power free of line noise, transient surges and frequency variation for the most efficient operation of critical

Highlights

- 5000VA / 5kVA / 3500 watt on-line double-conversion 5U rack/tower UPS
- 200/208/220/230/240V 50/60Hz output, high efficiency economy mode option
- Hot-swappable battery modules
- RS232 & EPO ports; support for SNMP/WEB card options
- Front panel LEDs with detailed LCD monitoring and control screen
- Expandable runtime with optional external battery packs
- NEMA L6-30P input (3 wire); L6-30R & L6-20R outputs

Package Includes

- SU5000RT3UPM UPS Power Module
- BP240V5RT2U External Battery Pack
- PowerAlert UPS management software and complete cabling
- Mounting hardware to support each module in 4-post rackmount enclosures
- Warranty information
- Instruction manual



Tripp Lite
 1111 W. 35th Street
 Chicago, IL 60609 USA
 Telephone: 773.869.1234
 www.tripplite.com

- servers, networking and telecommunications equipment
- Accepts input voltages between 156 and 276, regulating output within 2% of selected 200/208/220/230/240V nominal voltage
- Supports connected equipment during blackouts for 20/8 minutes at half/full load levels. Runtime is further expandable with optional external battery packs
- Intelligent battery management system extends battery life
- Network interfaces support simultaneous communications via 2 DB9 ports and SNMPWEBCARD slot
- Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP
- Communications ports support on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, AC line frequency, timed inverter shutoff, activate self-test and output power control
- Built-in Emergency Power Off(EPO) interface with cable
- Includes 4 built-in output receptacles(2 L6-30R, 2 L6-20R)
- L6-30P input plug-in connection
- Front panel LEDs and LCD readout with scroll button enables visual confirmation of all major UPS functions and current site electrical conditions
- Front panel switches enable power on/off control, self-test and alarm cancel functions
- Included adjustable mounting rails support installation in 4 post 19 inch rack enclosures. Optional 2POSTRMKITHD supports 2 post rackmount installation
- UPS ships fully assembled in full compliance with DOT regulations, no time consuming connection of internal batteries by user is required
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- \$250,000 Ultimate Lifetime Insurance(U.S., Canada, and Puerto Rico only)

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	5000
Output kVA Capacity (kVA)	5
Output Watt Capacity (Watts)	3500
Output kW Capacity (kW)	3.5
Output Capacity Details	Supports up to 102% load continuously in double conversion mode, 102 to 125% for 1 minute, 126% to 150% for 30 seconds; Loads over 150% trigger immediate bypass mode operation to support loads directly from mains power; Double conversion mode is automatically restored as the overload is cleared
Power Factor	0.7
Crest Factor	3:1
Nominal Output Voltage(s) Supported	200V; 208V; 220V; 240V
Nominal Voltage Details	Voltage selection via front panel LCD interface
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Output frequency matches input nominal on startup
Output Voltage Regulation (Line Mode)	+/- 2%
Output Voltage Regulation (Economy Line Mode)	+/- 10%
Output Voltage Regulation (Battery Mode)	+/- 2%



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Output Receptacles	(2) L6-20R; (2) L6-30R
Output Circuit Breakers	20A double-pole breaker protects L6-20R outlets. L6-30R outlets are un breakered
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
INPUT	
Rated input current (Maximum Load)	24A (208V), 21A (240V)
Nominal Input Voltage(s) Supported	200V AC; 208V AC; 220V AC; 230V AC; 240V AC
UPS Input Connection Type	L6-30P
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3
Recommended Electrical Service	30A 208/240V
Input Phase	Single-Phase
BATTERY	
Full Load Runtime (min.)	8 min. (3500w)
Half Load Runtime (min.)	20 min. (1750w)
Expandable Battery Runtime	Supports extended runtime with optional external battery packs
External Battery Pack Compatibility	BP240V10RT3U; BP240V557C-1PH; BP240V787C-1PH; BP240V1037C-1PH; BP240V1407C-1PH
DC System Voltage (VDC)	240
Battery Recharge Rate (Included Batteries)	Less than 6 hours from 10% to 80% (typical, full load discharge)
Battery Replacement Description	Hot-swappable, user replaceable batteries
Expandable Runtime	Yes
VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	2% output voltage regulation during overvoltages to 276
Undervoltage Correction	2% output voltage regulation during undervoltages to 156
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LCD Display	Selectable LCD display with scroll and selection buttons enables UPS control and detailed monitoring options; LED/LCD panel rotates for viewing in rack/tower formats (see manual)
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation; 2 additional switches support set and execute scrolling LCD functions
Alarm Cancel Operation	Alarm cancel switch
Audible Alarm	Unique audible alarms for all major UPS, environmental and power conditions (see manual)



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LED Indicators	6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD screen offers additional information and control options
SURGE / NOISE SUPPRESSION	
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Included Mounting Accessory Description	2 sets of adjustable 4 post rack rails included
Installation Form Factors Supported with Optional Accessories	2 post rackmount(2POSTRMKITHD); Tower(2-9USTAND)
Optional Mounting Accessory Notes	2 sets of 2POSTRMKITWM required for 2 post rackmount installation of separate power module and battery pack
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	5.2 x 17.5 x 26
UPS Power Module Dimensions (hwd, cm)	13.3 x 44.4 x 66
Rack Height (U Spaces)	5
Maximum Device Depth (in.)	26
Minimum Required Rack Depth (inches)	33
Maximum Device Depth (cm)	66
Minimum Required Rack Depth (cm)	83.8
UPS Power Module Weight (lbs.)	42
UPS Power Module Weight (kg)	19.1
UPS Dimensions Details	Includes 3U UPS/power module and 2U battery pack
Included Battery Pack Dimensions (hwd / in.)	3.5 x 17.5 x 22.5
Included Battery Pack Dimensions (hwd / cm)	8.9 x 44.4 x 57.2
Included Battery Pack Weight (lbs.)	92
Included Battery Pack Weight (kg)	41.8
UPS Shipping Dimensions (hwd / in.)	25 x 40 x 48
UPS Shipping Dimensions (hwd / cm)	63.5 x 101.6 x 121.9
Shipping Weight (lbs.)	196
Shipping Weight (kg)	89
Cooling Method	Fan



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UPS Housing Material	Steel
ENVIRONMENTAL	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
Relative Humidity	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	1322.2
AC Economy Mode BTU / Hr. (Full Load)	759.6
AC Mode Efficiency Rating (100% Load)	90%
AC Economy Mode Efficiency Rating (100% Load)	94%
COMMUNICATIONS	
Communications Interface	DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface
Network Monitoring Port Description	RS232 and contact closure communications are located on two separate DB9 ports
PowerAlert Software	Included
Communications Cable	DB9 cable included
LINE / BATTERY TRANSFER	
Transfer Time	No transfer time (0 ms.) in online, double-conversion mode
Low Voltage Transfer to Battery Power (Setpoint)	156
High Voltage Transfer to Battery Power (Setpoint)	276
SPECIAL FEATURES	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Automatic inverter bypass; Hot swappable batteries
Green Energy-Saving Features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); CE; Tested to GOST (Russia); Tested to SASO (Saudi Arabia); Meets FCC Part 15 Category A (EMI)
WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty



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Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 Ultimate Lifetime Insurance
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E6000 CER Release 3.5 User Guide

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ARRIS C4® CMTS and E6000™ Converged Edge Router Warranty

ARRIS Product Categories	Warranty Period from Shipment Date	
	Domestic U.S.	Outside of U.S.
All ARRIS CMTS products including WiDOX CMTS, C3, C4, C4c, D5 UEQ and E6000 CER; and EGT Encoder Solutions: Encore and Quartet Encoders, VIPr Video Transcoder and System Solutions, and HEMi Headend Micro Solutions.	Hardware—one (1) Year Software—ninety (90) days	Hardware—one (1) Year Software—ninety (90) days

E6000® Converged Edge Router

E6000® Converged Edge Router

ARRIS C4® Cable Modem Termination System (CMTS)

- ARRIS C4® Cable Modem Termination System
- ARRIS C4c™ Cable Modem Termination System
- ARRIS DOCSIS® 3.0 C4® CMTS

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Patent Information

The ARRIS C4® Cable Modem Termination System (CMTS) and E6000® Converged Edge Router are protected by U.S. and international patents including:

6,449,249	6,457,978	6,636,482	6,637,033	6,662,368	6,769,132
6,898,182	7,002,914	7,047,553	7,272,144	7,480,237	7,480,241
7,570,127	7,593,495	7,606,870	7,660,250	7,698,461	7,701,956
7,953,144	7,958,260	7,974,303	8,136,141	8,218,438	8,332,911
8,548,457	8,819,606	8,861,366	8,923,319	8,959,408	8,971,184
8,995,460	9,065,735	9,088,358			

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Table 1. Revision History

Revision	Date	Reason for Change
Rel.3.5 Preliminary, Issue 1.0	December 2015	Meet FSR (Field Soak Ready) deadline.



Appendix B – Revised Terms and Conditions

AMT has marked up the Terms and Conditions of the RFP as noted below.

Request for Proposal

Wyandotte Municipal Services
Wyandotte Cable
CMTS Replacement Project
Bid Number 4685
March 28, 2016

Wyandotte Cable
: Connecting
: the Dotte

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1. Instruction to Bidders

1.1. Request for Proposal – CMTS Replacement (Turn-Key) Project

Wyandotte Cable / Wyandotte Municipal Services (WMS) is a municipally owned electric, water and telecommunications department(s) for the City of Wyandotte, Michigan. This request for proposal (RFP) is for a CMTS (Cable Modem Termination System) Turn-Key Replacement Project.

All inquiries or requests regarding this RFP must be submitted, in writing or via email, no later than 4/19/16 to the project manager at the address indicated below. Only written responses from the project manager or project manager appointed designee will be binding with regard to inquiries requesting clarifications or additional information. The project manager's or his designee's written responses will be forwarded simultaneously to all prospective bidders.

No other individuals at Wyandotte Municipal Services will have the authority unless designated by project manager to respond to this RFP. Attempts to question other employees regarding this RFP will result in the bidder's disqualification.

WMS has designated Steve Timcoe, Superintendent/CATV Telecommunications, as project manager with overall project responsibility for administration of the project. His contact information is as follows:

Wyandotte Municipal Services
Wyandotte Cable
Attention: Steve Timcoe
3200 Biddle Ave
Suite 200
Wyandotte, MI 48192

Or via email at:
stimcoe@wyan.org

1.2. Submission of Proposal

1. Sealed proposals will be received by Wyandotte Cable / Wyandotte Municipal Services (WMS). Proposals shall be based on performing all items contained in this Invitation to Bid and must be in strict compliance with MIOSHA, State of Michigan and City of Wyandotte regulations.
2. The bidder must submit via mail one (1) copy of the response to this RFP to Wyandotte Cable at the address provided below. All responses must be complete and accurate and should be supplied in sealed packaging marked with the bidder's name and address, bid number 4685 and sent to the address below.

Wyandotte Municipal Services
Attention: Roderick Lesko, General Manager
3200 Biddle Ave
Suite 200
Wyandotte, MI 48192

Bid Opening will be on **Thursday, April 28, 2016 at 3 p.m.** at the Wyandotte Municipal Services Offices as noted above.

Wyandotte Municipal Services reserves the right to reject any or all bids in whole or in part and to waive any of the informalities therein per the General Terms and Conditions listed in **Appendix B**.

Wyandotte Cable will review and evaluate the written responses to this RFP. Wyandotte Cable may conduct additional interviews with selected bidders for the purpose of further exploring and clarifying the bidder's response. RFP responses will be evaluated to ascertain which proposal is most advantageous to the utility. Wyandotte Cable reserves the right to accept, refuse, or defer any or all of the proposals submitted at any time in the proposal process.

3. Per the General Terms and Conditions below each bid shall be accompanied by a certified or cashier's check or by a bid bond executed by a surety company authorized to do business in the State of Michigan payable to Wyandotte Municipal Services. The amount of the certified or cashier's check or bid bond shall be ten percent (10%) of the total bid price or \$150.00 whichever is greater. See Bid Bond Form 2 and 3.
4. Per the General Terms and Conditions on bids in excess of \$75,000, the successful bidder will be required to furnish a satisfactory Performance Bond and a Labor and Materials Payment Bond. Each bond will be at 100% of the accepted bid. All bonds are at the expense of the bidder. All bonding companies must be licensed by the State of Michigan and contact information provided below.
5. The successful bidder will be required to provide a list of all sub-contractors to be used. A "Release of Lien" form signed by the appropriate subcontractor(s) must be submitted with all invoices to the Wyandotte Municipal Services prior to approval for final payment and payment.

1.3 CMTS Replacement (turn key) RFP Schedule

RFP released	3/29/2016
RFP written questions due	4/19/2016
RFP receipt deadline (bid opening)	4/28/2016 at 3 p.m.
Expected project start date	5/18/2016

1.4. Proposal Format

This section describes the format bidders shall use in structuring a response to this RFP.

Table of Contents

Cover Letter

Section 1 - Executive Summary

Executive Summary shall contain a brief description of the following items. Do not include any pricing in this section.

- Bidder's scope of the proposed solution
- Recommended business relationship with Wyandotte Municipal Services
- Technology overview
- Description of corporate qualifications, including prior projects with a list of client references
- Description of demonstrated deployment procedures, proposed project organization and key personnel
- Proposed deployment schedule

Section 2 - Technical Proposal

Wyandotte Cable's preference is for the Arris E6000 CMTS platform. Bidder should describe the technical aspects of the product and/or service offering. Bidders should pay particular attention to describing clearly and concisely the functional and performance benefits of their offering. **Bidder shall provide a response to each of the line items listed in the System Requirements section, stating compliance or non-compliance and an explanation, in detail, for each line item. Also will provide same for any line item deemed necessary but not specifically listed within. Failure to comply with this requirement will deem the bidder non-responsive.**

Section 3 – Minimum Bidder Qualifications

Bidder shall address the following:

- Bidder has been a CMTS equipment provider for minimum of 10 years.
- Current solution technically significant to form has been commercially available for a minimum of 3 years.
- Describe current financial condition of the bidder's company.
- A minimum of 20 current deployments of proposed CMTS model.

- Only systems with proven deployments that have the capability of supporting minimum 8,000 modems.
- Bidders must identify all hardware, software, license, electrical, design, general & miscellaneous material/equipment, labor and any other requirements associated with a CMTS Replacement 'turn key' project.

Section 4 - Price and Business Relationship Proposal

Include all pricing information in your pricing quote. Wyandotte Cable expects pricing to include but may not be limited to:

- Standard CMTS hardware and software (converged edge router)
 - i) Redundant Processors and Network Interfaces
 - ii) Network Interfaces include 8x10Gbe SFP+Ports
 - iii) Chassis Contains 12 slots for Cable Access Modules, including Redundant CAMS
 - iv) CAMS should be able to be used in any combination desired
 - v) Downstream CAMS should be capable of 32 QAM's per Port
 - vi) Upstream CAMS should be capable of 4 QAM's per Port
 - vii) Number of Active Downstream Modules
 - viii) Number of Active Upstream Modules
 - ix) Number of Active Downstream Physical Ports per Module
 - x) Number of Physical Upstream Port per Module
 - xi) Number of Active Channels per Port
 - xii) Number of Licensed Upstream Channels per Module
 - xiii) Number of Total Downstream Channels
 - xiv) Number of Total Upstream Channels
 - xv) Number of Redundant Module(s)
 - xvi) Number of Slots Remaining in Chassis (for future upgrade)
 - xvii) Number of Physical Upstream Ports
- All necessary license requirements (indicate non-recurring & recurring costs)
- Integration, deployment and training services
- **ANY & ALL** other items required to meet system requirements for CMTS Replacement (turn key) project.
- Bidders shall also provide a list of any equipment or materials that are required to be purchased by WMS.
- Selected vendor will ship or deliver Equipment to Customer's warehouse or other designated location.
- Provide equipment lead times if expectation is they are not stock items readily available.
- **It is expected that any hardware, software, licenses, materials, labor not specifically mentioned but necessary to make this a fully functional turn key CMTS replacement be included in the project pricing quote and will be considered the responsibility of the bidder to be familiar enough with a project quote of this nature that it be all inclusive.**

Section 5 - Collusion Affidavit and Proposal Bond and Insurance Documents

Include signed Collusion Affidavit and Proposal Bond found in Appendix A. Insurance template is in Appendix C.

Section 6 - Appendix

Include relevant material needed to illuminate proposal content. This shall include but **not** limited to annual report summary, project plans, deployment schedules, resumes of key personnel, references, product brochures and specifications, etc.

2.0 Scope of Work

2.1 Background

Wyandotte Cable presently provides internet services to over 5,000 residential internet customers and more than 200 business customers with 'broadband high-speed internet' service. Wyandotte Cable also provides Digital VoIP telephone service to over 1,000 customers over this same infrastructure/technology. Wyandotte Cable currently has a Cisco uBR10012 Broadband Router system running redundant power supplies, PRE-4 routing engines and eight (8) UBR MC20x20 line cards in a single chassis that is need of replacement to provide faster speed, more DS & US bonded channels capable of running DOCSIS 3.0 as well as future simple/efficient upgrade to DOCSIS 3.1 if/when necessary. The new system needs to offer current technology to meet present needs. Also needs to be capable of expansion and meeting future technical & capacity needs. Wyandotte Cable is seeking a vendor that can deliver what is available today and expandable/upgradeable to what will be needed into the future.

Wyandotte Cable partners with Momentum Telecom (formerly IBBS – Integrated BroadBand Systems) whom accommodates many of Wyandotte Cable's needs to be a successful, competitive Internet Service Provider (ISP). Momentum Telecom facilitates/operates back office systems, 24/7/365 technical phone support, network operations center and advanced tech support, CMTS operational, configuration and system support amongst other support functions. The successful bidder will be expected to work both indirectly and directly, through Wyandotte Cable, with Momentum Telecom staff.

Wyandotte Cable is accepting proposals to supply a replacement CMTS (cable modem termination system) to provide for high speed broadband internet service and digital VoIP phone service for current and future residential and business customers . The proposal should be all inclusive and considered turn key in project scope of work. **Any items not specifically identified but deemed necessary to complete the project will be the responsibility of the bidder and should be included in the bid and pricing quote.**

2.2 Objectives

Some of the objectives of the CMTS replacement (turn key) project are:

General:

- Current industry acceptable downstream/upstream capacity
- Current industry acceptable downstream/upstream bonded channel capabilities
- Enhanced processing capabilities
- Initial capability of 16 bonded downstream channels upgradeable to 24 or 32 channels
- Initial capability of (2) 6.4 Mhz & (1) 3.2 Mhz upstream channels upgradeable to (4) 6.4
- Position Wyandotte Cable for market competition and for future technological advances
- Provide CMTS services to 40 current nodes but be capable of 48 nodes upon installation
- Be upgradeable to service 56 nodes without any significant hardware upgrades
- Redundancy of critical system components
- Minimum 1 to 3 year Service Level Agreement included with Renewal option
- Service Level Agreement that provides for same day replacement in event of critical failure preferred or best available SLA offered
- Rack elevation drawings
- Training requirements
- Pre-Project site visit required
- All Engineering & Design (includes incorporation of all existing services, i.e.; Video, VOD, EAS, etc.)
- As Builts upon project completion

Specific:

- A Hardware Module Summary (may be combined into pricing quote)
 1. Standard CMTS hardware and software (converged edge router)
 1. Redundant Processers and Network Interfaces
 2. Network Interfaces include 8x10Gbe SFP+Ports
 3. Chassis Contains 12 slots for Cable Access Modules, including Redundant CAMS
 4. CAMS should be able to be used in any combination desired
 5. Downstream CAMS should be capable of 32 QAM's per Port
 6. Upstream CAMS should be capable of 4 QAM's per Port
 7. Number of Active Downstream Modules
 8. Number of Active Upstream Modules
 9. Number of Active Downstream Physical Ports per Module
 10. Number of Physical Upstream Port per Module
 11. Number of Active Channels per Port
 12. Number of Licensed Upstream Channels per Module

13. Number of Total Downstream Channels
 14. Number of Total Upstream Channels
 15. Number of Redundant Module(s)
 16. Number of Slots Remaining in Chassis (for future upgrade)
 17. Number of Physical Upstream Ports
2. Recommend and quote standalone UPS (uninterruptable power supply) to fully support CMTS and all associated hardware requiring power.
 3. List all electrical requirements (Wyandotte Cable will assume responsibility for providing all electrical connections/outlets per bidder provided specifications).
 4. All necessary license requirements (indicate non-recurring & recurring costs)
 5. Integration, deployment and training services
 6. Any other items required to meet system requirements for CMTS Replacement (turn key) project.
 7. Bidders shall also provide a list of any equipment or materials that are required to be purchased by Wyandotte Cable.
 8. Selected vendor will ship or deliver Equipment to Customer's warehouse or other designated location.
 9. **It is expected that any hardware, software, licenses, materials, labor not specifically mentioned but necessary to make this a fully functional turn key CMTS replacement be included in the project pricing quote and will be considered the responsibility of the bidder to be familiar enough with a project quote of this nature that it be all inclusive.**
 - Onsite pre-design assessment, pre-launch service group migration design, onsite configuration, testing and first modem provisioning support.
 - Wyandotte Cable will provide any current head end and/or system design prints that are available
 - All installation services including but not limited to: CMTS, UPS installation in rack, connecting to UPS, CMTS and wiring coax cabling to combining network based on service group design.
 - It is expected that any cutover, migration or move of customers from the old CMTS system(s) to the new CMTS system(s) that is service affecting will be done in the maintenance window between the hours of 1:00 am – 6:00 am EST.

2.3 Project Overview

Wyandotte Cable is issuing this RFP to identify the CMTS replacement turn key solution that best addresses the requirements and objectives of Wyandotte Cable. When RFP responses have been received and evaluated, a recommendation will be made to proceed with bidder selection. Contracts will then be negotiated with the successful bidder for implementation of their CMTS replacement turn key solution. In addition to the functionality stated above, Wyandotte Cable intends to use the CMTS system to support all high speed broadband internet residential and business services, residential and business digital VoIP phone services and all internal Wyandotte Cable, Wyandotte Municipal Service and City of Wyandotte, internet based services. Some of the programs that WMS will consider in the future are:

- Upgrade to additional nodes (addition node segmentation, physical node splits, new plant design)
- Upgrade to 24 or 32 channel downstream bonding
- Upgrade to 4 channel 6.4 Mhz upstream bonding
- Upgrade to DOCSIS 3.1

Wyandotte Cable will be reviewing and continue upgrading/replacing its HFC plant to optimize and load balance modem traffic for system optimization purposes before, during and after a successful CMTS turn key replacement project bidder is known.

3.0 System Requirements

Wyandotte Cable desires a proven CMTS (cable modem termination system) that is capable of.

3.1 System Overview

Wyandotte Cable will continue to own, operate and maintain its cable telecommunications network providing a full suite of cable television, (SD, HD, VOD, etc.), High Speed Broadband Internet and Digital VoIP telephone services. Wyandotte Cable currently operates a 750 Mhz Hybrid-Fiber-Coax plant, single head end (no transport) serving the community of Wyandotte, Michigan employing primarily an ARRIS platform head end offering all digital service video in both SD & HD service offerings while also incorporating VOD and EAS

3.2 General Requirements

All responses for sections 3.2 through 3.4 must clearly begin with the proposers ability to comply, partially comply, or non-comply. Any responses not clearly identified in this fashion will be considered non-comply and scored accordingly in the decision making process.

- A complete turn key solution to replace current fully functioning Cisco UBR-10012 with a fully functioning upgraded CMTS (ARRIS E6000 platform preferred), to continue providing high quality, high speed broadband internet service to our customers that will meet and exceed their expectations for internet QOS.

3.3 CMTS System Training Requirements

The bidder must identify standard training procedures for all required Wyandotte Cable personnel. The proposal must include training costs, number of days required for onsite training and complete list of training topics and personnel required to attend. Note: Momentum

Telecom Network Operations staff fully supports Wyandotte Cable's CMTS operations and currently has a degree of expertise in CMTS operations. Wyandotte Cable relies significantly on their support and expertise in its day to day operations.

3.4 CMTS System Implementation Requirements

Bidder shall describe its account management approach, including the turnover process from presale through post-implementation support.

For this project, bidder shall be responsible for supplying, delivering, training and ensuring the proposed CMTS system is operational. This shall include, but not be limited to:

- CMTS system design, installation, deployment, management and support
- Network deployment planning, installation, activation & training.

4.0 Product Warranties

The Bidder shall provide detailed warranty information with its proposal, including warranties for all hardware, software, etc. A complete description of all warranty coverage shall be included in the proposal.

5.0 Evaluation Criteria

The bidder proposal is intended to help Wyandotte Cable select the technology configurations and support services that provide the best CMTS solution (ARRIS E6000 platform preferred). The proposal(s) will be evaluated using a number of factors. Some of the criteria that will be evaluated include:

- Compliance with the requirements of this request for proposal and proposed solution that best fits the utility's budgetary and operational needs, both currently and in the future
- Total cost to deploy proposed solution
- Simplicity, cost and ease of installation
- Availability and delivery schedule
- Training and local support
- Bidder's experience in providing CMTS solutions.

Appendix B – General Terms and Conditions for Proposals

1. Acceptance of Proposals: Wyandotte Municipal Services reserves the right to reject any and all Proposals, to waive any informal technicalities or defects, the scope and nature of which it shall be the sole judge, in any Proposal, insofar as such technicality or defects do not legally, materially or substantially change such Proposal. Wyandotte Municipal Services, unless otherwise specified by the Proposal, reserves the right to accept any item on the Proposal.

If the Proposal fails to state the time within a Proposal must be accepted, it is understood and agreed that said Wyandotte Municipal Services shall have sixty (60) days from Proposal opening date in which to accept the Proposal.

2. Error in Proposal: In case of error in the extension of prices in the Proposal, the unit prices will govern. No Proposal shall be altered, amended or withdrawn, unless acceptance date has expired, after opening date of Proposals. Negligence on the part of the Proposal in preparing the Proposal confers no right for the withdrawal of the Proposal after it was been opened.

3. Discount Period: Time in connection with discount offered will be computed from date of delivery or from the date correct invoices are received, whichever date is later. Discounts other than "Time Discounts" shall be shown on the face of the proposal sheet under "Terms".

4. Samples of Material: Samples of items, when requested, must be furnished free of expense to Wyandotte Municipal Services at the time Proposals are opened or later if such are called for after the Proposals have been opened. ~~If such samples are not destroyed in process of sampling WMS will be returned upon request at the Contractor's expense. Samples are provided at no charge for a thirty (30) day evaluation period. Samples must be returned to Contractor complete with original packing material, in "like new" condition, except for normal wear and tear. Samples not returned within the allotted thirty (30) days will be billed at current market rates. Samples will be destroyed only upon prior written approval by Contractor.~~

5. Signature on Proposals: Each Proposal submitted must contain the full name and business address of the Contractor. Any person signing a proposal sheet for himself/herself or as agent, employee or officer of another must show his/her title and, if requested by Wyandotte Municipal Services shall furnish proof of his/her authority to make such proposal. Any person signing said proposal shall do so in his/her own handwriting and the signature of that person as well as the name of any firm or company submitting the proposal.

6. Alternate Proposals: Alternate Proposals will be considered providing such items meet specifications. Where equivalent items are proposed Wyandotte Municipal Services reserves the sole right to determine whether the alternate meet specifications.

7. Collusion Affidavit: Every Contractors must accompany his/her Proposal with a sworn collusion affidavit setting forth the names and address of each and every person, firm or corporation, if any, other than the Contractors, interested in the Proposal submitted or any

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award, contract or benefit which might accrue therefrom. A blank form of such affidavit is included.

8. **Bond Requirements:** Concurrently with the execution of any contract the successful Contractor shall furnish a satisfactory performance bond in an amount equal to the total contract price executed by a surety company authorized to do business in the State of Michigan upon forms furnished by Wyandotte Municipal Services

For all contracts that exceed \$75,000 the successful Contractor shall also furnish a satisfactory payment (labor and materials) bond in an amount equal to the total contract price executed by a surety company authorized to do business in the State of Michigan upon forms furnished by Wyandotte Municipal Services.

9. **Taxes:** Each Proposal shall separately state and set forth therein the amount of any and all Federal or State sales, excise, or use taxes included in Proposal prices. If any such taxes are included in prices Proposal, Wyandotte Municipal Services reserves the right in making an award to deduct any amount thereof for the payment of which Wyandotte Municipal Services will execute appropriate tax exemption certificates justifying any such tax deductions from Proposal prices. Where labor is required, the Contractor shall state separately the amounts of labor and materials.

10. **Delivery:** The number of calendar days in which delivery will be made after a contract is executed and a purchase order is issued shall be stated in the Proposal. When no time of delivery is stated by the Contractor, it is understood and agreed that delivery is to be made within thirty (30) days after receipt of order unless otherwise stated in the specifications.

11. **Advertisement:** The laws of the State of Michigan, the Charter of the City of Wyandotte, Michigan, all city ordinances and the legal advertisement for contractors and purchases are made a part of any agreement entered into the same respect as if specifically set forth in that agreement.

12. **Specifications:** It is understood that reference to the attached specifications shall be sufficient to make the terms of such specifications binding on the contractor. In some instances, the name of a manufacturer, a special brand or make of an item is used in describing the items desired but this does not restrict the Contractor to that manufacturer or specific article, this means being used simply to indicate the character or quality of the articles or services desired; however, the articles or services on which the proposals are submitted must be equal to that specified, and a statement to that effect shall be made a part of such a proposal. Where a conflict occurs between the requirements of the General Terms and Conditions and the Specifications, the requirements of the Specifications will govern.

13. **Inspection:** Final inspection and acceptance or rejection will be made at the time of delivery, but all products and workmanship shall be subject to inspection and test at all times and places. The right is reserved to reject articles which contain defective material and/or workmanship. Rejected materials shall be removed by and at the expense of the contractor promptly after notification of rejection. Wyandotte Municipal Services shall not be obligated to

pay the full price for any items that do not meet specifications; however, payment may be made at a proper reduction in price.

14. Proposal Opening: Proposals received after the specified date and time for opening as shown on the Proposal Sheet will not be considered. Proposals may be mailed or delivered to Wyandotte Municipal Services, 3200 Biddle Avenue, Wyandotte, Michigan 48192. No Proposals will be accepted via facsimile or email.

15. Contractor Insurance Requirements:

Section 1 – Hold Harmless

1.01. The Contractor shall defend, pay on behalf of and hold harmless Wyandotte Municipal Services, their employees, agents, servants, and representatives from and against any and all losses, damages, expenses, claims, suits and demands of whatever nature resulting from damages or injuries, including death, to any property or persons, and including any intangible injuries, caused by or arising out of any action, omission or operation in connection with or attributable to the Contractor, any subcontractor engaged by the Contractor, any of their respective employees, agents, servants, and representatives or any other person, including Wyandotte Municipal Services, its employees, agents, servants and representatives; provided, however, that the Contractor shall not be required to indemnify Wyandotte Municipal Services, its employees, agents, servants and representatives hereunder for any damages or injuries, including death, to any property or person caused solely and exclusively by the negligence of Wyandotte Municipal Services, its employees, agents, servants and representatives.

1.02 In the event of any accident or occurrence resulting in damages or injuries, including death, to any property or persons, the Contractor shall immediately notify Wyandotte Municipal Services of the accident or occurrence. Contractor shall submit a written report within forty-eight (48) hours, or earlier as required by law or regulation.

1.03 Except as otherwise provided pursuant to the insurance provisions of this agreement, the Contractor assumes all risks of damages or injuries, including death, to any property or persons used or employed on or in connection with the work, and all risks of damages or injuries, including death, to any property or persons wherever located, resulting from any action, omission or operation under the contract or in connection with the work. The Contractor shall waive all rights to subrogation against Wyandotte Municipal Services and shall not assign any subrogation rights against Wyandotte Municipal Services to any other party including, but not limited to, insurance companies or self-insured pools.

1.04 In the event the Contractor sublets any work to a subcontractor, a similar hold harmless provision as provided above shall be included in the agreement between the Contractor and its subcontractors.

1.05 Contractor's maximum liability is limited to an amount equal to services fees paid by Wyandotte to Contractor relating to this project.

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1.06 In no instance shall Contractor be liable for damages due to loss of service.

Section 2: Insurance Requirements

2.01 Prior to commencement of any work under this contract and until completion and final acceptance of the work, the Contractor and each and every Subcontractor under its direction shall, at its sole expense, maintain adequate insurance on its own behalf, a copy of which must be attached to Contractor's Proposal. Wyandotte Municipal Services reserves the right to reject Contractor's Proposal for reasons pertaining to insurance coverage, which at Wyandotte Municipal Services' determination and sole discretion, may not be suitable for the work described herein.

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2.02 Contractor shall be responsible for any and all deductibles or retentions in the policies required in Section 2.01 above.

2.03 All insurance required in Section 2.01 above shall be provided from an insurer acceptable to Wyandotte Municipal Services.

2.04 All insurance required in Section 2.01 above shall be primary with respect to all losses covered under those policies and shall not require participation or contribution from any insurance or other coverage carried by Wyandotte Municipal Services.

2.05 The contractor shall not be permitted to start work without the aforementioned and required insurance policy documentation.

~~2.01 Prior to commencement of any work under this contract and until completion and final acceptance of the work, the Contractor and each and every Subcontractor under its direction shall, at its sole expense, maintain the following insurance on its own behalf:~~

~~(A) Workers' Compensation and Employers' Liability Coverage with statutory limits and the following minimum limits of coverage:~~

Each Accident:	\$ 100,000.00
Disease (policy limit)	\$ 500,000.00
Disease (each employee)	\$ 100,000.00

~~If Contractor is self insured for purposes of Worker's Compensation, Contractor must submit a copy of a current letter, permit or certificate issued by the State of Michigan. In the event that Contractor is a qualified, approved self insurer of worker's compensation, the following provision is included in the Subcontract Agreement:~~

~~"Contractor waives any right of recovery Contractor may have or acquire against Wyandotte Municipal Services, other Contractors or other Subcontractor of all tiers by reason of the Contractor having paid workers compensation benefits or any other reimbursement systems including, but not limited to, automobile no fault and other employee disability programs as a self insurer.~~

(B) Liability Insurance

1. Commercial General Liability Insurance in form providing coverage on an occurrence basis of not less than that of a standard ISO commercial general liability insurance policy with the following minimum limits of coverage:

General Aggregate:	\$2,000,000.00
Products Completed Operations/Aggregate:	\$2,000,000.00
Personal and Advertising Injury:	\$1,000,000.00
Each Occurrence:	\$1,000,000.00
Fire Damage (any one fire):	\$ 50,000.00
Medical Expense (any one person):	\$ 5,000.00

Such insurance described in this section must include, as additional insureds, the interests of Wyandotte Municipal Services. Such coverage must be at least as broad as that provided in ISO CG 20 26 or CG 20 10 (edition 11 85) and shall not restrict coverage to Contractor's "ongoing operations." This may also be accomplished by using the current version of CG 20 26 or CG 20 33 in conjunction with CG 20 37 (10 01). Contractor agrees to carry Wyandotte Municipal Services as an Additional Insured for Products and Completed Operations insurance on Contractor's commercial general liability policy for a period of not less than two years after the final acceptance of the Work.

(a) Contractual Liability for defense and indemnification of liability assumed under this contract and all other contracts relative to the work lot in the Contract. Such coverage shall not require that defense be provided on a joint basis to the Contractor and to Wyandotte Municipal Services, and shall not require that any suit name both the Contractor and Wyandotte Municipal Services before defense is provided by the insurer.

(b) Broad-Form Property Damage.

(c) Personal Injury Liability.

(d) Product and Completed operations.

(e) Cross liability endorsement, stating that each is severally insured

(f) Amendment—aggregate limits per project.

(g) Explosion, collapse and underground damage coverage.

Professional Liability (Errors and Omissions) insurance, in the amount of at least \$500,000 per claim or incident covering the acts, errors, omissions and professional performance of duties of the Contractor and any employees or agents thereof.

2. Comprehensive Automobile Liability Insurance including any state required no fault coverages, covering the use of all owned, not owned, and hired automobiles with a bodily injury and property damage limit with a minimum combined single limit of \$1,000,000.00 per occurrence.

All of the above insurance shall contain the following wording verbatim:

~~"It is agreed that this insurance shall not be canceled, materially changed or not renewed without at least a thirty (30) days written advance notice to Wyandotte Municipal Services at their principal mailing addresses."~~

~~2.02 In the event of a failure of the Contractor to furnish and maintain said insurance and to furnish satisfactory evidence thereof, Wyandotte Municipal Services shall have the right to take out and maintain the same for all parties on behalf of the Contractor, who agrees to furnish all necessary information thereof and to pay the cost thereof to Wyandotte Municipal Services immediately upon presentation of a bill.~~

~~2.03 Should the Contractor engage a subcontractor, the conditions under this Agreement with respect to the securing of insurance will apply to each such subcontractor.~~

~~2.04 Contractor shall provide Excess Liability Umbrella Form Insurance Coverage with the following minimum limits of coverage:~~

~~Each Occurrence: _____ \$5,000,000.00
Aggregate: _____ \$5,000,000.00~~

~~2.05 Contractor shall be responsible for any and all deductibles or retentions in the policies required in 2.01 above.~~

~~2.06 All insurance required in 2.01 above shall be provided from an insurer acceptable to Wyandotte Municipal Services.~~

~~2.07 All insurance required in 2.01 shall be primary as respects to all losses covered under those policies and shall not require participation or contribution from any insurance or other coverage carried by Wyandotte Municipal Services~~

~~2.08 The contractor shall not be permitted to start work without the aforementioned coverage and required documentation.~~

16. Equalization Factor in Wyandotte Municipal Services Specification: Any Wyandotte-based firm shall be deemed a better Proposal than the Proposal of any competing firm which is not Wyandotte based whenever the Proposal of such competing firm shall be equal to or higher than equalization percentage credit has been applied to the Proposal of the Wyandotte based firm. The equalization percentage credit shall be that percentage or credit which the competing firm has applied for similar or equivalent Proposals in the City where such competing firm is located. If the competing firm has no equalization percentage credit applied to Proposals in the City they are located in then no credit shall be applied to the Wyandotte based Proposal.

17. Final Acceptance and Payment: Invoice approval will occur upon final shipment and acceptance by owner. Complete compliance with this specification is required for final acceptance.

18. Change Orders and additions to the scope: Any additions to the work scope, materials, or specifications of the project must be authorized in writing using the Wyandotte Municipal Services Change Order Form. Authorization must be received prior to any additional work commencing or the contractor assumes the risk of total financial liability for the additional work.

Appendix C - Certificate of Liability of Insurance Template



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTRACT NAME
AGENCY NAME HERE	PHONE
	FAC. No.
	ADDRESS
	INSURER(S) AFFORDING COVERAGE
	NAIC #
INSURED	INSURER A
CONTRACTOR'S NAME HERE	INSURER B
	INSURER C
	INSURER D
	INSURER E
	INSURER F

COVERAGES CERTIFICATE NUMBER CL1621010591 ASSIGN NUMBER

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

FORM	TYPE OF INSURANCE	DESCRIBED (USED, IRV)	POLICY NUMBER	POLICY PERIOD (START/END)	POLICY PERIOD (START/END)	LIMITS
A	<input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR <input checked="" type="checkbox"/> PROFESSIONAL LIABILITY GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER	X	POLICY #	1/1/2016	1/1/2017	EACH OCCURRENCE \$ 1,000,000 LIMITS TO REPORTED PROCEEDS (Per occurrence) \$ 50,000 SOLE EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMMODITY AGG \$ 2,000,000 EMPLOYEE BENEFIT LAB \$ 1,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRE/AUTO <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	X	POLICY #	1/1/2016	1/1/2017	COVERED SINGLE LIMIT (Per occurrence) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ PIP-Base \$
A	<input checked="" type="checkbox"/> UMBRELLA LIMIT <input type="checkbox"/> EXCESS UMB <input type="checkbox"/> GEN' AGG <input checked="" type="checkbox"/> RETENTION	X	POLICY #	1/1/2016	1/1/2017	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
A	WORKERS COMPENSATION AND EMPLOYERS LIABILITY ANY PROPRIETOR/PARTNER/RELATIVE OFFICER/DIRECTOR IF EXCLUDED (mandatory in MI) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	POLICY #	1/1/2016	1/1/2017	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> PER EA E.L. EACH ACCIDENT \$ 100,000 E.L. DISEASE - EA EMPLOYER \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 100,000
A	ENVIRONMENTAL DECONTAMINATION		POLICY #	1/1/2016	1/1/2017	PER PROJECT \$ 5,000,000
A	BUILDERS RIS		POLICY #	1/1/2016	1/1/2017	ALL RISK LIMIT

Description of OPERATIONS, LOCATIONS (VEHICLE) (ACORD 101, Additional Network Schedule, may be attached if more space is required)
 Wyandotte Municipal Services is included as additional insured. Policies are endorsed to provide 30 days prior written Notice of Cancellation or reduction of coverage to Wyandotte Municipal Services. Waiver of Subrogation for personal injury or property damage applies in favor of Wyandotte Municipal Services, its employees and agents, arising from this contract.

CERTIFICATE HOLDER	CANCELLATION
Wyandotte Municipal Services 3200 Biddle Avenue, Suite 200 Wyandotte, MI 48152	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE:

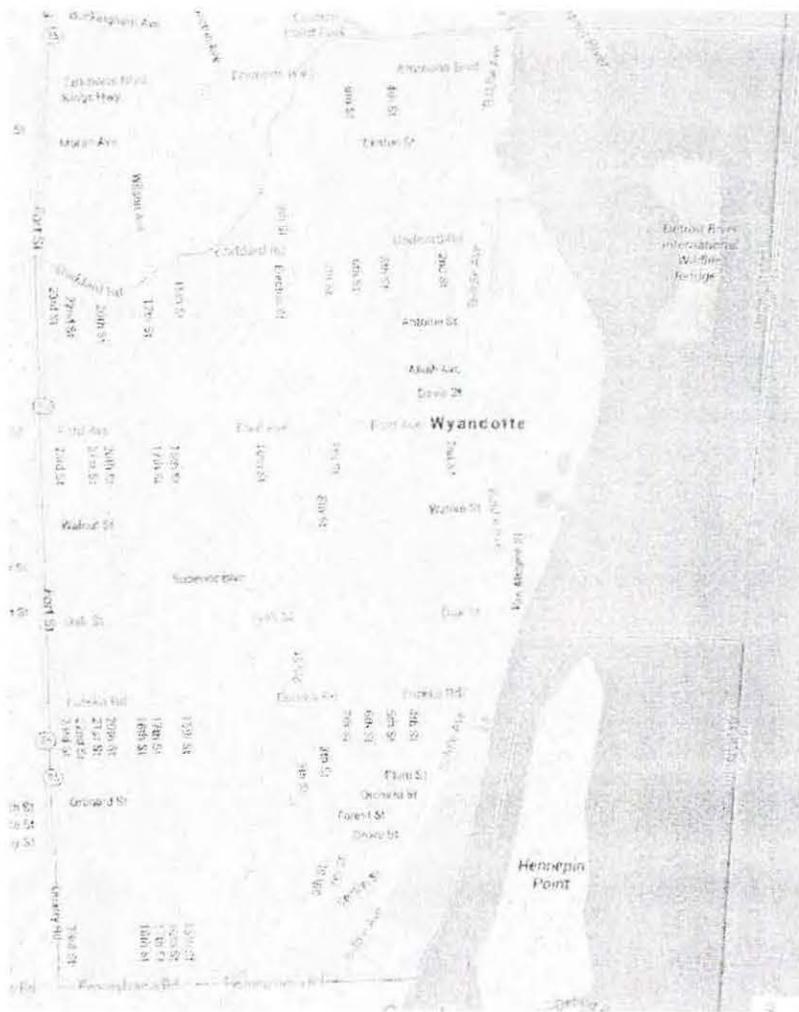
ACORD 25 (2014/01)
 IN3025 (02/10/11)

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Appendix E – System Geographic Location

A complete list of the locations are available and will be given to the successful bidder. Wyandotte City Area is approximately Two miles by Four miles.



Appendix F – Form of Contract Agreement

Executed after award of contract for all contracts in excess of \$75,000.00

Contract No. _____

This contract made the _____ day of _____, 20____, by and between _____ hereafter called the "Contractor," and the City of Wyandotte, County of Wayne and State of Michigan (a municipal corporation organized under the laws of the State of Michigan), by and through its Municipal Service Commission, hereinafter call the "Owner."

WITNESSETH: That the Contractor and the Owner, for the Consideration stated herein, agree as follows:

ARTICLE I - SCOPE OF THE WORK:

The contractor shall perform all things required to be performed and shall provide and furnish all of the labor, materials, necessary tools and expendable equipment, and all utility and transportation services required to perform and complete, in a workmanlike manner, all of the work required, all in strict accordance with the specifications, including any and all addenda, and in these Contract Documents, which specifications are made a part of this contract, and in strict accordance with the Contractor's proposal and other contract documents herein mentioned, which are a part of this contract; and the Contractor shall do everything required by this contract and the other documents constituting a part hereof.

ARTICLE II - THE CONTRACT PRICE:

The Owner shall pay to the Contractor for the performance of this contract, in current funds, the contract price of : _____.

Payments are to be made to the Contractor in accordance with "Terms of Payment," of the attached Commercial Terms and Conditions and addenda, which are a part of this contract.

ARTICLE III - COMPONENT PARTS OF THIS CONTRACT:

This contract consists of the following component parts, all of which are as fully a part of this contract as if herein set out verbatim, or if not attached, as if hereto attached.

1. Proposal Instruction and Information
2. Contract Agreement (this document) and Accompanying Bonds
3. Commercial Terms and Conditions
4. Technical Specifications
5. Proposal Form
6. Contractor's Proposal

In the event that any provision of the above component part of this contract conflicts with any provision in any other component part, the provision in the component part first enumerated above

shall govern over any other component part which follows it numerically, except as may be otherwise specifically stated.

IN WITNESS WHEREOF, the parties hereto have caused this instrument to be executed in ~~three~~ (3) original counterparts, the day and year first above written.

Contractor

(Seal)

By: _____

Title : _____

Attest: _____

City of Wyandotte,
By and Through its
Municipal Service Commission

By: _____
General Manager/Secretary

Attest:

Approved as to
Form and Legality

City Attorney