

November 19, 2014

Lexigton-Fayette Urban County Government 200 East Main Street, 3rd Floor, Room 338 Lexington, KY 40507

RE: LFUCG RFP#189-2014 Fiber Optic Cable & Control Equipment

Willer J

To Whom It May Concern:

NTSG, Inc. is pleased to submit the enclosed proposal in response to the LFUCG RFP#189-2014 Fiber Optic Cable & Control Equipment.

Located right here in Lexington, KY, NTSG Inc. has a long and extensive history with the installation, testing, and commissioning of high-end optical communications networks. Winner of the 2014 Commerce Lexington Phoenix Award, NTSG has proven its ability to overcome challenging circumstances, while emerging from it stronger and poised for growth. NTSG is TL 9000 and ISO 9001 certified, as well as a certified Women-Owned Business Enterprise (WBE). NTSG teams have successfully completed several hundred projects spanning thousands of individual sites. Each and every NTSG employee is committed to meeting only the highest standards of quality and customer service.

NTSG maintains an engineering, assembly and testing lab on Nandino Blvd, here in Lexington. Our facility has a Security Protected Warehouse, a Fiber Optic Cable Assembly Laboratory, and an Equipment Staging Laboratory.

In our warehouse we are able to maintain appropriate inventory levels of materials and equipment needed for major installation projects.

Our Fiber Optic Cable Assembly Laboratory is equipped with state-of-the-art manufacturing and testing equipment enabling us to quickly build and test custom fiber optic jumper cables.

Our Equipment Staging Laboratory provides NTSG with the capability to rack, stack, provision and "hot stage" equipment, and often times entire optical networks, for our clients saving them both time and money.

NTSG prides itself on providing clients with speedy delivery and superb customer service. Although NTSG is only bidding on supplying a portion of the items requested in the RFP, we are committed working with LFUCG to maintaining appropriate inventory levels for each of these items in stock at our Lexington, KY facility to enable same or next day delivery.

Sincerely,

Nancy L. Elberty

President/CEO

CAPABILITY STATEMENT

CORE COMPETENCIES

NTSG provides advanced network integration services to carriers, equipment manufacturers, enterprise clients, and other service providers for access rings, metro Inter-office facility rings, metro core, and dedicated long-haul networks, including:

- EFI&T Engineer, Furnish, Install, Test & Turn-up Integrated optical technologies. Specializing in SONET and DWDM optical network applications.
- Site Survey
- **Equipment Staging**
- **Project Management**
- System Engineering
- **Network Deployment**
- In-Service Upgrades
- Fiber Optic Cable Assembly & Distribution

DIFFERENTIATORS

TL 9000 certified

ISO 9001:2008 certified

QuEST Forum Member

UVN Certified: One of AT&T's highest quality Ultravailable Network Services [UVN] EFI&T providers.

Long history as independent EFI&T services provider supporting optical telecommunications networks in the US

National Coverage: Teams in NJ, TX, AZ, PA, and KY. Warehouse, Fiber Optic Cable Assembly Facility & Equipment Testing & Staging Facility in KY

Specialization in network engineering and deployments.

Our staff has continuous and focused optical networking field expertise.

Successfully completed several hundred projects including thousands of individual sites.

COMPANY DATA

DUNS: 009509139 Cage Code: 3BZB1

NAICS: 238210, 335921, 541690, 541618, 541512, 493110 Certifications: TL 9000, ISO 9001:2008, WBENC, NWBOC

Certified Technologies: SONET, DWDM ROADM, DWDM OADM, CWDM,

Awards: 2014 Commerce Lexington Inc. - Phoenix Award

CONTACT NTSG, INC.

Address: 848 Nandino Blvd., Suite R, Lexington, KY 40511

Phone: 859-254-9442

















NANCY L. ELBERTY, President & CEO 859-254-9442 | NElberty@NTSGinc.com

PAST PERFORMANCE

AT&T UVN [Ultravailable Network]

NTSG has been a preferred partner for AT&T UVN for over 9 years. UVN is AT&T's premler high-speed metro network product supporting Fortune 500 companies and Government Agencies. NTSG has built over 100 new private SONET and DWDM ROADM networks for AT&T. NTSG also provides the installation and integration services required to augment existing networks as customer requirements evolve. NTSG receives consistent accolades as one of AT&T's highest quality UVN EFI&T providers.

Windstream Communications

Provided project management, Installation, test, turnup, and circuit provisioning for

- DWDM network projects in 3 states.
- DWDM network software and hardware upgrades enabling remote visibility for Windstream NOC.

Installed first ADTRAN NetVanta 8044M project for Windstream in KY.

Provided project management, site surveys, installation, test and turn-up, upgrades and service migration of network solutions including T1 line, MPLS, Frame Relay, Ethernet, xDSL and FttT applications.

AboveNet Communications

Provided project management, installation, test, turnup, commissioning and circuit provisioning to build

- Optical SONET rings in eastern PA.
- Optical DWDM rings in eastern PA, NY and NJ.
- DWDM ROADM optical network to support 10-Gigabit Ethernet and Fiber Channel services in eastern PA.

Level 3 Communications

Provided project management, installation, testing, commissioning and circuit provisioning services required to reconfigure DWDM ROADM Optical Network. Added nodes at new data center and reconfiguration of high-speed circuits serving the data center and other nodes on the optical network.

Cisco

Provided project management, test, turn-up, commissioning and circuit provisioning for optical SONET and DWDM networks in the Dallas metro area.





Lexington-Fayette Urban County Government

Lexington, Kentucky Horse Capital of the World

Division of Central Purchasing

Date of Issue: November 11, 2014

INVITATION TO BID #189-2014 Fiber Optic Cable & Control Equipment

Address:	200 East N	Nain Street, 3 rd Floor, Room 338, Lexington, Kentucky 40507	Ime: 2:00 PM
Type of Bid:	Price Cont		
Pre Bid Meeting: Address:	N/A N/A	Pre Bid Time:	N/A
Sealed bids will be re prevalling local time o	ceived in the	office of the Division of Central Purchasing, 200 East Main Street, Lexing 14. Bids must be received by the above-mentioned date and time. Mailed	ton, Kentucky, until <u>2:00 PM</u> , bids should be sent to:
		Division of Central Purchasing 200 East Main Street, Room 338 Lexington, KY 40507, (859) 258-3320	
above. Bids that are must be signed and hi	e not delive ave the comp	nty Government assumes no responsibility for bids that are not addresse red to the Division of Central Purchasing by the stated time and d any name and address, bid invitation number, and the name of the bid on	ate will be rejected. All bids the outside of the envelope.
Bids are to include all .	shipping cost	s to the point of delivery located at: 1515 Old Frankfort Pike, Lexington Ki	ſ
Bld Security Required:		Yes <u>X</u> No Cashler Check, Certified Check, Bld Bond (Personal checks and com	pany checks will not be acceptable).
Performance Bond Re	quired:`	Yes X_No	
Bid Specific	ations Met _	Check One: Exceptions to Bld Specifications. Exceptions shall be itemized and attached to bid proposal submitted.	Proposed Delivery: 1-10 days after acceptance of bid.
		Lexington-Fayette Urban County Government may be using Procurement ments. Will you accept Procurement Cards?	Cards to purchase goods
Sub	omitted by:	NTSG, Inc.	
	·	Firm Name	
		848 Nandino Blvd., Suite R	·
		Address	
		Lexington, KY 40511	
		City, State & Zign	
		Manay & Alle	
Bid must b	be signed:	- Marcy / Jeles	
(original signature)	nature)	Signature of Authorized Company Representative - Title	
		Nancy L. Elberty	
		Representative's Name (Typed or printed)	
		859-254-9442 859-226-0334	_
		Area Code - Phone - Extension Fax #	
		nelberty@ntsginc.com	
		E-Mail Address	

AFFIDAVIT

the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign laws of the Commonwealth. 6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Governme of Ordinances, known as "Ethics Act." 7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circum described by a statute or ordinance defining an offense, that a person is aware or should have been aware conduct is of that nature or that the circumstance exists. Further, Affiant sayeth naught.	enalty of
 the entity submitting the bld (hereinafter referred to as "Bldder") Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes a during the life of the contract. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to awar contract. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Di Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license not been obtained. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentuck the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign laws of the Commonwealth. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government of Ordinances, known as "Ethics Act." Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circum described by a statute or ordinance defining an offense, that a person is aware or should have been aware conduct is of that nature or that the circumstance exists. 	s the
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V Comment V. Comment	istances that his
STATE OF Kentucky	
S CV. BITTANT LOAD.	
COUNTY OF Fayette PUBLIC ID NO. 491309 ID NO. 491309	
The foregoing instrument was subscribed, sworn to and acknowledged before me	
by Nancy 1. Elberty on this the 19 day	
of November, 2014.	
My Commission expires: 06/17/2017	
NOTARY PUBLIC, STATE AT LARGE Please refer to Section II. Bid Conditions, Item "U" prior to completing this	form

I. GREEN PROCUREMENT

A. ENERGY

The Lexington-Fayette Urban County Government is committed to protecting our environment and being fiscally responsible to our citizens.

The Lexington-Fayette Urban County Government mandates the use of Energy Star compliant products if they are available in the marketplace (go to www.Energystar.gov). If these products are available, but not submitted in your pricing, your bid will be rejected as non-compliant.

ENERGY STAR is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

Key Benefits

These products use 25 to 50% less energy
Reduced energy costs without compromising quality or performance
Reduced air pollution because fewer fossil fuels are burned
Significant return on Investment
Extended product life and decreased maintenance

B. GREEN SEAL CERTIFIED PRODUCTS

The Lexington-Fayette Urban County Government is also committed to using other environmentally products that do not negatively impact our environment. Green Seal is a non-profit organization devoted to environmental standard setting, product certification, and public education.

Go to <u>www.Greenseal.org</u> to find available certified products. These products will have a reduced impact on the environment and on human health. The products to be used must be pre-approved by the LFUCG prior to commencement of any work in any LFUCG facility. If a Green Seal product is not available, the LFUCG must provide a signed waiver to use an alternate product. Please provide information on the Green Seal products being used with your bid response.

C. GREEN COMMUNITY

The Lexington-Fayette Urban County Government (LFUCG) serves as a principal, along with the University of Kentucky and Fayette County Public Schools, in the Bluegrass Partnership for a Green Community. The Purchasing Team component of the Partnership collaborates on economy of scale purchasing that promotes and enhances environmental initiatives. Specifically, when applicable, each principal is interested in obtaining best value products and/or services which promote environment initiatives via solicitations and awards from the other principals.

If your company is the successful bidder on this Invitation For Bid, do you agree to extend the same product/service pricing to the other principals of the Bluegrass Partnership for a Green Community (i.e. University of Kentucky and Fayette County Schools) if requested?

V	X	
Yes		No

II. Bid Conditions

- A. No bid may be withdrawn for a period of sixty (60) days after the date and time set for opening.
- B. No bid may be altered after the date and time set for opening. In the case of obvious errors, the Division of Central Purchasing may permit the withdrawal of a bid. The decision as to whether a bid may be withdrawn shall be that of the Division of Central Purchasing.
- Acceptance of this proposal shall be enactment of an Ordinance by the Urban County Council.
- D. The bidder agrees that the Urban County Government reserves the right to reject <u>any</u> and <u>all</u> bids for either fiscal or technical reasons, and to award each part of the bid separately or all parts to one vendor.
- E. Minor exceptions may not eliminate the bidder. The decision as to whether any exception is minor shall be entirely that of the head of the requisitioning Department or Division and the Director of the Division of Central Purchasing. The Urban County Government may walve technicalities and informalities where such waiver would best serve the interests of the Urban County Government.
- F. Manufacturer's catalogue numbers, trade names, etc., where shown herein are for descriptive purposes and are to guide the bidder in interpreting the standard of quality, design, and performance desired, and shall not be construed to exclude proposals based on furnishing other types of materials and/or services. However, any substitution or departure proposed by the bidder must be clearly noted and described; otherwise, it will be assumed that the bidder intends to supply items specifically mentioned in this Invitation for Bids.
- G. The Urban County Government may require demonstrations of the materials proposed herein prior to acceptance of this proposal.
- H. Bids must be submitted on this form and must be signed by the bidder or his authorized representative. Unsigned bids will not be considered.
- Bids must be submitted prior to the date and time indicated for opening. Bids submitted after this time will not be considered.
- J. All bids mailed must be marked on the face of the envelope:

"Bid on #189-2014 Fiber Optic & Control Equipment"

and addressed to: Division of Central Purchasing

200 East Main Street, Room 338 Lexington, Kentucky 40507

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

- K. Bidder is requested to show both unit prices and lot prices. In the event of error, the unit price shall prevail.
- L. A certified check or Bid Bond in the amount of XX percent of the bid price must be attached hereto. This check must be made payable to the Lexington-Fayette Urban County Government, and will be returned when the material and/or services specified herein have been delivered in accordance with specifications. In the event of failure to perform within the time period set forth in this bid, it is agreed the certified check may be cashed and the funds retained by the Lexington-Fayette Urban County Government as liquidated damages. Checks of unsuccessful bidders will be returned when the bid has been awarded.
- M. The delivery dates specified by bidder may be a factor in the determination of the successful bidder.
- N. Tabulations of bids received may be malled to bidders. Bidders requesting tabulations must enclose a stamped, self-addressed envelope with the bid.
- The Lexington-Fayette Urban County Government is exempt from Kentucky Sales Tax and Federal Excise Tax on materials purchased from this bid Invitation. Materials purchased by the bidder for construction projects are not tax exempt and are the sole responsibility of the bidder.

- P. All material furnished hereunder must be in full compliance with OSHA regulations.
- If more than one bld is offered by one party, or by any person or persons representing a party, all such blds shall be rejected.
- R. Signature on the face of this bid by the Bidder or his authorized representative shall be construed as acceptance of and compliance with all terms and conditions contained herein.
- S. The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, creed, national origin, sex or age, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.
- The Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any county, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly or indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;
- (2) The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;
- (3) The contractor will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and
- (4) The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses,

The Act further provides:

KRS 45.610. Hiring minorities - Information required

- (1) For the length of the contract, each contractor shall hire minorities from other sources within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.
- (2) Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.

KRS 45.620. Action against contractor - Hiring of minority contractor or subcontractor

- (1) If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.
- (2) If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 to 45.640.

(3) The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.

KRS 45.630 Termination of existing employee not required, when

Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the date of the contract.

KRS 45.640 Minimum skills

Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.

It is recommended that all of the provisions above quoted to be included as <u>special conditions</u> in each contract. In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

U. Any party, firm or Individual submitting a proposal pursuant to this Invitation must be in compliance with the requirements of the Lexington-Fayette Urban County Government regarding taxes and fees before they can be considered for award of this invitation and must maintain a "current" status with regard to those taxes and fees throughout the term of the contract. The contractor must be in compliance with Chapter 13 from the Code of Ordinances of the Lexington-Fayette Urban County Government. The contractor must be in compliance with Ordinance 35-2000 pursuant to contractor registration with the Division of Building Inspection. If applicable, sald business must have a Fayette County business license.

Pursuant to KRS 45A.343 and KRS 45A.345, the contractor shall

- (1) Reveal any final determination of a violation by the contractor within the previous five year period pursuant to KRS Chapters 136 (corporation and utility taxes), 139 (sales and use taxes), 141 (income taxes), 337 (wages and hours), 338 (occupational safety and health of employees), 341 (unemployment and compensation) and 342 (labor and human rights) that apply to the contractor; and
- (2) Be in continuous compliance with the above-mentioned KRS provisions that apply to the contractor for the duration of the contract.

A contractor's failure to reveal the above or to comply with such provisions for the duration of the contract shall be grounds for cancellation of the contract and disqualification of the contractor from eligibility for future contracts for a period of two (2) years.

V. Vendors who respond to this invitation have the right to file a notice of contention associated with the bid process or to file a notice of appeal of the recommendation made by the Director of Central Purchasing resulting from this invitation.

Notice of contention with the bid process must be filed within 3 business days of the bid/proposal opening by (1) sending a written notice, including sufficient documentation to support contention, to the Director of the Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his/her contention with the bid process. After consulting with the Commissioner of Finance the Chief Administrative Officer and reviewing the documentation and/or hearing the vendor, the Director of Central Purchasing shall promptly respond in writing findings as to the compliance with bid processes. If, based on this review, a bid process irregularity is deemed to have occurred the Director of Central Purchasing will consult with the Commissioner of Finance, the Chief Administrative Officer and the Department of Law as to the appropriate remedy.

Notice of appeal of a bid recommendation must be filed within 3 business days of the bid recommendation by (1) sending a written notice, including sufficient documentation to support appeal, to the Director, Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his appeal. After reviewing the documentation and/or hearing the vendor and consulting with the Commissioner of Finance and the Chief Administrative Officer, the Director of Central Purchasing shall in writing, affirm or withdraw the recommendation.

III. Procurement Contract Bid Conditions

- A. The terms of this agreement shall be for <u>1</u> year(s) from the date of acceptance of this contract by the Lexington-Fayette Urban County Government. This agreement may be automatically extended for an additional <u>1</u> year(s) renewal. This contract may be canceled by either party thirty (30) days after delivery by canceling party of written notice of intent to cancel to the other contracting party.
- B. Price Changes (Space Checked Applies)
- (XXX) 1. Prices quoted in response to the Invitation shall be firm prices for the first 90 days of the Procurement Contract. After 90 days, prices may be subject to revision and such changes shall be based on general industry changes. Revision may be either increases or decreases and may be requested by either party. There will be no more than one (1) price adjustment per quarter. Requests for price changes shall be received in writing at least twenty (20) days prior to the effective date and are subject to written acceptance before becoming effective. Proof of the validity of a request for revision shall be responsibility of the requesting party. The Lexington-Fayette Urban County Government shall receive the benefit of any decline that the seller shall offer his other accounts.
 - () 2. No provision for price change is made herein. Prices are to be firm for the term of this contract.
 - () 3. Procurement Level Contract
- C. If any contract item is not available from the vendor, the Lexington-Fayette Urban County Government, at its option, may permit the item to be back-ordered or may procure the Item on the open market.
- D. All Invoices must bear reference to the Lexington-Fayette Urban County Government Purchasing document numbers which are being billed.
- F. This contract may be canceled by the Lexington-Fayette Urban County Government if it is determined that the Bidder has failed to perform under the terms of this agreement, such cancellation to be effective upon receipt of written notice of cancellation by the Bidder.
- G. No substitutions for articles specified herein may be made without prior approval of the Division of Central Purchasing.

LFUCG Non-Appropriation Clause

Contractor acknowledges that the LFUCG is a governmental entity, and the contract validity is based upon the availability of public funding under the authority of its statutory mandate.

In the event that public funds are unavailable and not appropriated for the performance of the LFUCG's obligations under this contract, then this contract shall automatically expire without penalty to the LFUCG thirty (30) days after written notice to Contractor of the unavailability and non-appropriation of public funds. It is expressly agreed that the LFUCG shall not activate this non-appropriation provision for its convenience or to circumvent the requirements of this contract, but only as an emergency fiscal measure during a substantial fiscal crisis, which affects generally its governmental operations.

In the event of a change in the LFUCG's statutory authority, mandate and mandated functions, by state and federal legislative or regulatory action, which adversely affects the LFUCG's authority to continue its obligations under this contract, then this contract shall automatically terminate without penalty to the LFUCG upon written notice to Contractor of such limitation or change in the LFUCG's legal authority.

EQUAL OPPORTUNITY AGREEMENT

The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states:

The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.

- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
- Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.

The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped and aged persons.

NTSG, Inc.
Name of Business

GENERAL PROVISIONS OF BID CONTRACT

By signing the below, bidder acknowledges that it understands and agrees with the following provisions related to its bid response and the provision of any goods or services to LFUCG upon selection by LFUCG pursuant to the bid request:

- Bidder shall comply with all Federal, State & Local regulations concerning this type of service or good.
- Failure to submit ALL forms and information required by LFUCG may be grounds for disqualification.
- 3. Addenda: All addenda, if any, must be considered by the bidder in making its response, and such addenda shall be made a part of the requirements of the bid contract. Before submitting a bid response, it is incumbent upon bidder to be informed as to whether any addenda have been issued, and the failure of the bidder to cover any such addenda may result in disqualification of that response.
- Bid Reservations: LFUCG reserves the right to reject any or all bid responses, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
- 5. Liability: LFUCG is not responsible for any cost incurred by bidder in the preparation of its response.
- 6. Changes/Alterations: Bidder may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the bid response, and received by LFUCG prior to the scheduled closing time for receipt of blds, will be accepted. The bid response when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of bid response".
- 7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from any bidder.
- 8. Bribery Clause: By his/her signature on its response, bidder certifies that no employee of his/hers, any affillate or subcontractor, has bribed or attempted to bribe an officer or employee of the LFUCG.
- 9. Additional Information: While not necessary, the bidder may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the bid response. Additional documentation shall not serve as a substitute for other documentation which is required by the LFUCG to be submitted with the bid response.
- 10. Ambiguity, Conflict or other Errors: If a bidder discovers any ambiguity, conflict, discrepancy, omission or other error in the bid request of LFUCG, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.
- Agreement to Bid Terms: In submitting its bid response, the bidder agrees that It has carefully examined the specifications and all provisions relating to LFUCG's bid request, including but not limited to the bid contract. By submission of its bid response, bidder states that it understands the meaning, intent and requirements of LFUCG's bid request and agrees to the same. The successful bidder shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to bidder shall be authorized for services, expenses, or goods reasonably covered under these provisions that the bidder omits from its bid response.
- 12. Cancellation: LFUCG may unilaterally terminate the bid contract with the selected bidder(s) at any time, with or without cause, by providing at least thirty (30) days advance written notice unless a different advance written notice period is negotiated prior to contract approval. Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the LFUCG. Payment for those goods and services shall not be unreasonably withheld.

- 13. Assignment of Contract: The selected bidder(s) shall not assign or subcontract any portion of the bid contract with LFUCG without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract; and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
- 14. No Waiver: No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this bid proposal or bid contract shall affect the rights, remedles, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.
- Authority to do Business: Each bidder must be authorized to do business under the laws of the Commonwealth of Kentucky and must be in good standing and have full legal capacity to provide the goods or services specified in the bid proposal. Each bidder must have all necessary right and lawful authority to submit the bid response and enter into the bid contract for the full term hereof including any necessary corporate or other action authorizing the bidder to submit the bid response and enter into this bid contract. If requested, the bidder will provide LFUCG with a copy of a corporate resolution authorizing this action and/or a letter from an attorney confirming that the proposer is authorized to do business in the Commonwealth of Kentucky. All bid responses must be signed by a duly authorized officer, agent or employee of the bidder.
- 16. Governing Law: This bid request and bid contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this matter, the bidder agrees that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division and that the bidder expressly consents to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to these matters or any rights or obligations arising thereunder.
- 17. Ability to Meet Obligations: Bidder affirmatively states that there are no actions, sults or proceedings of any kind pending against bidder or, to the knowledge of the bidder, threatened against the bidder before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of bidder to perform its obligations under this bid response or bid contract, or which question the legality, validity or enforceability hereof or thereof.
- 18. Bidder understands and agrees that its employees, agents, or subcontractors are not employees of LFUCG for any purpose whatsoever. Bidder is an independent contractor at all times related to the bid response or bid contract.
- 19. If any term or provision of this bid contract shall be found to be illegal or unenforceable, the remainder of the contract shall remain in full force and such term or provision shall be deemed stricken.

Signature

2014 Fiber-Optic Cable and Control Equipment vendor bid tab Bid Invitation <u>189-2014 Fiber Optic Cable & Control Equip</u> Expiration Date:

Num 1	Item CATV 80 Channel Fiber-Optic Video Link		no bid
2	CATV 880 Channel Video Link Receiver w/PF170		no bid
3	External Single-Mode Fiber Modem Multi-Drop		no bid
4	Internal Single-Mode Fiber Modem Multi Drop (Must have ST Type Connectors)		no bid
5	12-Slot Rack for FO-400SMST. Modems/Power Supply, Note: Rack is (10 Slot Free))	no bid
6	Pre-loaded Rack Distribution Closet Housing		\$1,630.00/ea
7	Fiber Cleave Tool		\$403.00/ea
8	Wall Mount Enclosure, 12-Port	,	no bid
9	Fujikura 70S Fusion Splicer		\$16,268.00/ea
10	Splice Protectprs for Fusion Splices		no bid
11	Breakaway Swivel, 5/8-inch x 4-inch		no bid
12	Innerduct, 1-inch, Orange		54/ft day delivery
13	Innerduct, 2-inch, Orange		38/ft day delivery
14	Innerduct, 1-inch, Direct Bury, Orange		96/ft day delivery
15	Innerduct, 2-inch, Direct Bury, Orange		05/ft day delivery
16	Junction Box Lid for PE-30-HD Junction Box		no bid
17	Cable Tie: Panduit PLT3H-TL-100 (No Substitutes)		.54 / each 3 day delivery

18 Pole Washer, Joslyn J1075, No Substitutes	\$0.51/ea
19 Eye Bolt, 16-inch, Joslyn J9416, No Substitutes	\$18.66/ea
20 Messenger Cable, 1/4-inch, Galvanized, 2,000-ft. on a wooden reel	\$503.00/reel
21 Messenger Cable, 1/4-inch, Galvanized, 5,000-ft. on a wooden reel	\$975/reel
22 Double Arming Bolt, 24-inch	\$5.40/ea
23 Pole Bolt, 18-inch	\$3.80/ea
24 Eye Bolt, 18-inch	\$19.71/ea
25 Oval Eye Nut	\$3.28/ea
26 Suspension Clamp, PA296X	\$11.55/ea
27 Strand Vise, 1/4-inch, Reliable 5150, No Substitutes	no bid
28 Strand Link, 1/4-inch, Reliable 5000, No Substitutes	no bid
29 "C" Cable Lasher	\$4,200.00/ea
30 Lash Wire, .045 Stainless Steel, 6 x 1200-ft per box	\$140.40/box
31 "D" Lashing Clamp, GMP 07886 (No Substitutes)	\$103.40/box
32 Junction Box w/Lid, Traffic Bearing	no bid
33 OTDR, Micro (No Substitutes)	\$7,849.00/ea
34 Condux Fiber-Optic Cable Puller, pkg. 1 (No Substitutes)	\$17,36.00/ea
35 Condux Fiber-Optic Cable Puller Capstan (No Substitutes)	\$1,454.66/ea
36 Closet Splice Housing Kit for Master Splice Cabinet (No Substitutes)	no bid
37 Duplex Jumpers, 10-meter SM ST to SC	\$22.98 / each 1-3 day delivery
38 Duplex Jumpers, 3-meter SM ST to ST	\$19.62 / each 1-3 day delivery

\$12.80 / each

39 Attenuator ≠1, 10 db	1-3 day delivery
40 Attenuator #2, 15 db	\$12.80 / each 1-3 day delivery
Loose Tube Type Fiber Optic Cable (various counts, non-gel), #s 41 thru 51 41 6-Fiber Cable	no bid
42 12-Fiber Cable	no bid
43 24-Fiber Cable	no bid
44 36-Fiber Cable	no bid
45 48-Fiber Cable	no bid
46 72-Fiber Cable	no bid
47 96-Fiber Cable	no bid
48 120-Fiber Cable	no bid
49 144-Fiber Cable	no bid
50 156-Fiber Cable	no bid
51 288-Fiber Cable	no bid
52 Detectable 5/16-inch Duct Rod with Cart and Accessories	no bid
53 Detectable Fiber-Optic Cable Pulling Tape, 1,000-foot lengths	no bid
54 Multilink 16-inch Sno Shoe with Tap	\$75.89/ea
55 Stackable Cable Spacer	\$0.52/ea
56 Fiber-Optic Duplex Jumper, 10-meter, SM 9/125 ST to ST	\$22.98 / each 1-3 day delivery
57 Fiber-Optic Duplex Jumper, 3-meter, SC to SC	\$19.62 / each 1-3 day delivery
58 Lasher/Overlasher w/chest, GMP 70400 Apollo	no bid
59 Fiber Termination Kit (Controller Cabinet)	no bid

60 Fiber Installation Kit (Novice)	no bid
61 Precision Optical Fiber Cleaver, Fitel #S323	no bid
62 Fiber-Optic Shackle	no bid
63 Fiber-Optic Conduit Checker	\$117.08/ea
64 Fiber-Optic Duct Entry Guide, 2-inch	\$345.29/ea
65 Fiber-Optic Duct Entry Guide, 4-inch	\$600.15/ea
66 Fiber-Optic Spool Frame	\$157.85/ea
67 Fiber-Optic Quadrant, Black	no bid
68 Fiber-Optic Reel Trailer	\$6,834.00/ea
69 Fiber-Optic Equipment Trailer	\$1,560.00/ea
70 Pull Rope, 1/2-inch x 1200-feet, IDEAL #31-851	\$535.00/ea
71 Optical Fiber Access Tool for midspan buffer splits, Corning-C #OFT-000	\$356.20/ea
72 Fiber Lube Applicator Kit, DCD Design #35100-000	\$723.45/ea
73 Fiber Lube, 5-gallon, DCD Design #35000-050	\$96.46/ea
74 Starfighter Fiber-Optic Dome Splice Closure Kit	no bid
75 Aerial Cable Puller, No Substitutes	\$338.44/ea
76 21-foot Lay Up Stick, No Substitutes	\$159.77/ea
77 Wire Raising Tool, No substitutes	\$18.06/ea
78 Cable Block Lifter, N Substitutes	\$110.50/ea
79 Cable Block Pusher, No Substitutes	\$90.55/ea
80 Cable Block, No Substitutes	\$146.47/ea

81 Overlash Aerial Puller Cable (No Substitutes)	\$579.14/ea
82 Camsplice Assembly Fixture (No Substitutes)	\$344.50/ea
83 Jumper Clamp, N/S Electric M EM 0800, No Substitutes	no bid
84 4000D Dome Kit for 288 Total Splices	no bid
85 HP Procurve 6200yl-24G-mGBIC Switch	no bid
86 HP Procurve Gigabit-LX-LC Mini-GBIC Transceiver Module	\$417.96 / each 2-10 day delivery
87 HP Procurve Gigabit Ethernet SFP Mini-GBIC	\$166.98 / each 2-10 day delivery
88 Rugged Switch RS900G (RuggedComm #RS900G-24-P-2SC10)	no bid
89 Rugged Switch RS900G (RuggedComm #RS900G-24-P-2SC25)	\$413.48 / each 2-10 day delivery
90 Digi Port Server TS 2 MEI	no bid
90 Digi Port Server TS 2 MEI 91 Conduit Inspection Camera	no bid
91 Conduit Inspection Camera	no bid
91 Conduit Inspection Camera 92 Non-Metallic Pole Riser	no bid
91 Conduit Inspection Camera 92 Non-Metallic Pole Riser 93 Non-Metallic Pole Riser Adaptor	no bid no bid sl9.62 / each
91 Conduit Inspection Camera 92 Non-Metallic Pole Riser 93 Non-Metallic Pole Riser Adaptor 94 Fiber-Optic Duplex Jumper, 3-meter, SC to ST	no bid no bid no bid \$19.62 / each 1-3 day delivery
91 Conduit Inspection Camera 92 Non-Metallic Pole Riser 93 Non-Metallic Pole Riser Adaptor 94 Fiber-Optic Duplex Jumper, 3-meter, SC to ST 95 64-gigabit IPOD Touch Diagnostic/Data Collection Tool	no bid no bid no bid \$19.62 / each 1-3 day delivery no bid

FIBER-OPTIC CABLE AND CONTROL EQUIPMENT

We propose to deliver to the Lexington-Fayette Urban County Government, Division of Traffic Engineering loading dock at 1515 Old Frankfort Pike, Lexington, Kentucky, 40504, the following traffic signal and control equipment conforming to all specifications used by the Commonwealth of Kentucky, Division of Traffic, for like purpose within days of receipt of purchase authorization:

Pricing for the following shall be good for 365 days from acceptance of bid.

Special Requirement: (Fiber-Optic Cable Bids)

- All Fiber-Optic cable shall have a 10-year warranty on the Fiber & Cable.
- All price quotes for Fiber-Optic cable shall be per linear foot.
- It is anticipated that separate contracts for gel filled and non-gel filled loose buffer tube fiber-optic
 cable will be awarded. Price quotes for both gel filled and non-gel filled loose buffer tube fiberoptic cable will be accepted and evaluated independently.
- All fiber-optic cable shipments shall be on Wooden Reel (coils will not be accepted).
- 1. CATV 80 Channel Fiber-Optic Video Link:

Equivalent to Communications Supply Corporation #2804TD-SCAP-07

2. CATV 880 Channel Video Link Receiver w/PF170:

Equivalent to Communications Supply Corporation #2804RC-SFAP PS170-1

3. External Single-Mode Fiber Modem Multi-Drop:

Equivalent to Traffic Fiber Systems #FO 600SMST

4. Internal Single-Mode Fiber Modem Multi Drop (Must have ST Type Connectors):

Equivalent to Traffic Fiber Systems #FO400SMST

5. 12-Slot Rack for FO-400SMST, Modems/Power Supply, Note: Rack is (10) slot free:

Equivalent to Traffic Fiber Systems #R400/12

6. Pre-loaded Rack Distribution Closet Housing:

The above shall include one (1) Coming #CCH-04-U Closet Housing, with twelve (12) Coming CCH-CP12-59 (6-port panel SC Duplex Single Mode)

7. Fiber Cleave Tool:

Equivalent to Communications Supply Corporation #CL-310-VL

8. Wall Mount Enclosure, 12-Port:

Equivalent to Communications Supply Corporation #WIC-012

9. Fujikura 70S Evolution Fusion Splicer:

Fujikura 70S Evolution Fusion Splicer shall include: Standard Package, Fiber Holder #FH-60-250 (coating dia. 250um) 1-pair, Fiber Holder #FH-60-900 (coating dia. 900um) 1-pair, 1-year limited warranty (No substitutes)

10. Splice Protectors for Fusion Splices:

Equivalent to Communications Supply Corporation #FT-1

11. Breakaway Swivel, 5/8-inch x 4-inch:

Equivalent to Communications Supply Corporation #MASV5

12. Innerduct, 1-inch, Orange:

Equivalent to Communications Supply Corporation #ICE 100

13. Innerduct, 2-inch, Orange:

Equivalent to Communications Supply Corporation #ICE 200

14. Innerduct, 1-inch, Direct Bury, Orange:

Equivalent to Communications Supply Corporation #IDE 131, innerduct shall have a minimum crush strength of 950-pounds per foot and a minimum tensile strength of 1,500-pounds

15. Innerduct, 2-inch, Direct Bury, Orange:

Equivalent to Communications Supply Corporation #IDE 237, innerduct shall have a minimum crush strength of 1,700-pounds per foot and a minimum tensile strength of 4,850-pounds.

16. Junction Box Lid:

for Pen cell #PE-30-HD Junction Box

17. Cable Tie:

Panduit PLT3H-TL-100 (No Substitute)

- 18. Pole Washer: Joslyn J1075 (No Substitute)
- 19. Eye Bolt, 16-inch: Joslyn J9416 (No Substitute)
- 20. Messenger Cable. ¼-inch, Galvanized: 2,000-ft. on a wooden reel
- 21. Messenger Cable, 1/4-inch, Galvanized: 5,000-ft on a wooden reel

22. Double Arming Bolt, 24-inch:

Equivalent to Joslyn #J8874

23. Pole Bolt, 18-inch:

Equivalent to Joslyn #J8818

24. Eye Bolt, 18-inch:

Equivalent to Joslyn #J9418

25. Oval Eye Nut:

Equivalent to Joslyn #J1092

26. Suspension Clamp:

Equivalent to #PA296X

27. Strand Vise, 4-inch:

Reliable 5150 (No Substitute)

28. Strand Link, ¼-inch:

Reliable 5000 (No Substitute)

29. C Cable Lasher: Equivalent to GMP #P/N 71420

30. Lash Wire, .045 SS, 6 x 1200-ft per box

Equivalent to GMP #71530

31. D Lashing Clamp:

Equivalent to GMP #07886 (No Substitute)

32. Junction Box w/Lid (Fiber), Traffic Bearing, Quazite with Traffic LOGO on Lid

Box: Quazite #PG1730BA12 (No Substitutes)

Lid: Quazite #PG1730HH0044 (No Substitutes)

33. OTDR (Micro), Model Noyes M200-K-Quad, No Substitutes

34. Condux Fiber-Optic Cable Puller Package I, no substitutes, including:

- · Hydraulic Cable Puller
- Foot control/hydraulic control assembly
- Hoses and cords to connect to the puller
- Portable hydraulic power pack, gas 9-hp
- Remote Mounting Stand

35. Condux Fiber-Optic Cable, Capstan, No substitutes:

· Capstan shall be 30-inch diameter, 4-inches wide

36. Closet Splice Housing Kit for Master Splice Cabinet:

Kit shall include:

- (1) Corning CSH-05u 19-inch Rack Mount Housing
- (22) Corning M67-112 Type 2S Trays, for 24 Fusion splices per Tray
- (No Substitutes)
- · Each kit shall have all items listed shipped in one box, per bid item number

37. Duplex Jumpers

Fiber-optic Duplex Jumper shall be, 10-meter long, Equivalent to Fiber Instrument Sales # D38YS10FISA, SM ST to SC.

38. Fiber Optic Jumpers

Fiber Optic Jumpers shall be Duplex SM 9/125, ST to ST, 3-meters long Equivalent to Fiber Instrument Sales #VDX988S3FISA

39. Attenuator #1

ST Male-ST Female 10db SM 1310/1550 Atten UPC, Equivalent to Fiber Instrument Sales Inc. #F19622

40. Attenuator #2

ST Male-ST Female 15db SM 1310/1550 Atten UPC, Equivalent to Fiber Instrument Sales Inc. #F19623

SPECIFICATION FOR LOOSE TUBE OPTICAL FIBER CABLES FOR OUTDOOR APPLICATIONS Corning Altos, No Substitutes

1.0 General Considerations

The cable shall meet all requirements stated in this specification. The cable shall meet the requirements of ANSI/ICEA Standard for Fiber Optic Outside Plant Communications Cable, ANSI/ICEA S-87-640-1999.

2.0 Fiber Characteristics

2.1 Detailed information on the fiber types available for this cable design can be found in the following documents:

Dispersion Un-shifted and Non-zero Dispersion Shifted Single-mode Fiber: Generic Specification F1, "Generic Specification for Single-mode Optical Fiber in Loose Tube and Ribbon Cables."

50/125 µm and 62.5/125 µm Multimode Fiber: Generic Specification F2, "Generic Specification for Multimode Optical Fiber in Loose Tube and Ribbon Cables."

2.2 Optical Requirements

2.2.1 The optical fiber shall consist of a step index, germanium doped silica core within a concentric layer of silica cladding covered by concentric dual layers of UV cured acrylate coatings.

- 2.2.10 Mode Field Diameter

 The nominal mode field diameter shall be 9.2 +/- 0.3 (0.4) um at 1310nm and 10.4 +/- 0.5 um at 1550nm.
- 2.2.11 Polarization Mode Dispersion The fiber PMD shall be less than or equal to 0.08 ps/km^0.5.

2.3 Geometrical Requirements

- 2.3.1 Cladding Diameter The cladding outside diameter shall be 125 +/- 0.7 um. The cladding diameter shall be measured in accordance with EIA-455-45A (Microscopic Method for Measuring Fiber Geometry of Optical Waveguide Fibers).
- 2.3.2 Cladding Non-circularity The cladding non-circularity shall be less than or equal to 1%. Measurement shall be in accordance with ElA-455-45A (Microscopic Method for Measuring Fiber Geometry of Optical Waveguide Fibers).
- 2.3.3 Core/Cladding Concentricity Error The offset between the center of the core and the center of the cladding shall be less than 0.5 um.
- 2.3.4 Coating The coating shall be a UV curable acrylate and shall be 245 ± 10 μm in diameter. The coating shall be readily removable with commercially available stripping tools. Measurements shall be in accordance with either EIA-455-55A (Methods for Measuring the Coating Geometry of Optical Fibers) or EIA-455-48A (On-Line Diameter Measurement of Optical Waveguides).
- 2.3.5 Coating/Cladding Concentricity Error The offset between the coating and the cladding shall be less than or equal to 12 um.

2.4 Environmental Requirements

- 2.4.1 Operating Temperature The operating temperature for the fiber shall be -60C to +85C
- 2.4.2 Temperature Dependence The induced attenuation at 1310 and 1550 nm over the operating temperature range shall be less than or equal to 0.05 dB/km.
- 2.4.3 Temperature / Humidity Cycling The induced attenuation at 1310 and 1550 nm at -10C to +85C and 95% humidity shall be less than or equal to 0.05 dB/km.
- 2.4.4 Water Immersion The induced attenuation at 1310 and 1550 nm due to water immersion at 23°C +/- 2°C shall be less than or equal to 0.05 dB/km.
- 2.4.5 Accelerated Heat Aging The induced attenuation at 1310 and 1550 nm due to heat aging at 85C +/- 2C shall be less than or equal to 0.05 dB/km.

- 3.8 In buffer tubes containing multiple fibers, the colors shall be stable across the specified storage and operating temperature range and shall not be subject to fading or smearing onto each other. Colors shall not cause fibers to stick together.
- 3.9 The buffer tubes shall be resistant to external forces and shall meet the buffer tube cold bend and shrinkback requirement of 7 CFR 1755,900.
- 3.10 Fillers may be included in the cable core to lend symmetry to the cable cross-section where needed. Fillers shall be placed so that they do not interrupt the consecutive positioning of the buffer tubes.
- 3.11 The central member shall consist of dielectric, glass reinforced plastic (GRP) rod (steel central member). The purpose of the central member is to provide tensile strength and prevent buckling. The central member shall be overcoated with a thermoplastic to achieve dimensional sizing to accommodate buffer tubes/fillers.
- 3.12 Each buffer tube shall contain a water-swellable yarn or water-blocking gel for protection against water migration. The water-swellable yarn or water-blocking gel shall be non-nutritive to fungus, electrically non-conductive, and homogeneous. It shall also be free from dirt of foreign matter.
- 3.13 Buffer tubes shall be stranded around the dielectric central member using the reverse oscillation, or "S-Z", stranding process.
- 3.14 Water swellable yarn(s) or water swellable coatings shall be applied longitudinally along the central member.
- 3.15 A minimum of two polyester yarn binders shall be applied contrahelically with sufficient tension to secure each buffer tube layer to the dielectric central member without crushing the buffer tubes. The binders shall be non-hygroscopic, non-wicking, and dielectric with low shrinkage.
- 3.16 A water swellable tape shall be applied longitudinally around the outside of the stranded tubes/fillers. The water swellable tape shall be non-nutritive to fungus, electrically non-conductive, and homogenous. It shall also be free from dirt and foreign matter.
- 3.17 Non-armored cables shall contain one ripcord under the sheath for easy sheath removal. Armored cables shall contain two ripcords under the steel armor for easy armor removal. Additionally, armored cables that have an inner sheath will also contain one ripcord under the inner sheath.
- 3.18 Tensile strength shall be provided by the central member, and additional dielectric yarns as required.
- 3.19 The dielectric yarns shall be helically stranded evenly around the cable core.

- 3.20 Non-armored cables shall be sheathed with medium density polyethylene (MDPE). The minimum nominal jacket thickness shall be 1.4 mm. Jacketing material shall be applied directly over the tensile strength members (as required) and water swellable tape. The polyethylene shall contain carbon black to provide ultraviolet light protection and shall not promote the growth of fungus.
- 3.21 Armored cables without an inner jacket shall have an armor layer applied directly over the dielectric strength members. The armor shall be a corrugated steel tape, plastic-coated on both sides for corrosion resistance, and shall be applied around the outside of the dielectric strength members with an overlapping seam with corrugations in register. The outer jacket shall be applied over the corrugated steel tape armor. The outer jacket shall be a MDPE with a minimum nominal jacket thickness of 1.4 mm. The polyethylene shall contain carbon black to provide ultraviolet light protection and shall not promote the growth of fungus.
- 3.22 Armored cables with an inner jacket shall have an inner sheath of MDPE. The minimum nominal jacket thickness of the inner sheath shall be 1.0 mm. The inner jacket shall be applied directly over the tensile strength members (as required) and water swellable tape. A water swellable tape shall be applied longitudinally around the outside of the inner jacket. The armor shall be a corrugated steel tape, plastic-coated on both sides for corrosion resistance, and shall be applied around the outside of the water blocking tape with an overlapping seam with the corrugations in register. The outer jacket shall be applied over the corrugated steel tape armor. The outer jacket shall be a MDPE with a minimum nominal jacket thickness of 1.4 mm. The polyethylene shall contain carbon black to provide ultraviolet light protection and shall not promote the growth of fungus.
- 3.23 The MDPE jacket material shall be as defined by ASTM D1248, Type II, Class C, Category 4 and Grades J4, E7 and E8.
- 3.24 The jacket or sheath shall be free of holes, splits, and blisters.
- 3.25 The cable jacket shall contain no metal elements and shall be of a consistent thickness.
- 3.26 Cable jackets shall be marked with the manufacturer's name, month and year of manufacture, sequential meter or foot markings, a telecommunications handset symbol as required by Section 350G of the National Electrical Safety Code® (NESC®), fiber count, and fiber type. The actual length of the cable shall be within -0/+1% of the length markings. The print color shall be white. Optionally, cable jackets containing one or more coextruded white stripes, which may be printed in light blue. The height of the marking shall be a minimum of 2.5 mm.

- 3.27 If the initial marking fails to meet the specified requirements (i.e., improper text statement, color, legibility, or print interval), the cable may be remarked using a contrasting alternate color. The number sequence will differ from the previous numbering sequence, and a tag will be attached to both the outside end of the cable and to the reel to indicate the sequence of remarking. The preferred remarking color will be yellow. (We do not reprint in yellow.)
- 3.28 The maximum pulling tension shall be 2700 N (608 lbf) during installation (short term) and 890 N (220 lbf) long term installed.
- 3.29 The shipping, storage, and operating temperature range of the cable shall be -40°C to +70°C. The installation temperature range of the cable shall be -30°C to +70°C.

4.0 General Cable Performance Specifications

- When tested in accordance with FOTP-3, "Procedure to Measure Temperature Cycling Effects on Optical Fibers, Optical Cable, and Other Passive Fiber Optic Components," the change in attenuation at extreme operational temperatures (-40°C to +70°C) shall not exceed 0.15 dB/km at 1550 nm for single-mode fiber.
- 4.2 When tested in accordance with FOTP-82, "Fluid Penetration Test for Fluid-Blocked Fiber Optic Cable," a one-meter length of unaged cable shall withstand a one-meter static head or equivalent continuous pressure of water for one hour without leakage through the open cable end.
- 4.3 When tested in accordance with FOTP-81, "Compound Flow (Drip) Test for Filled Fiber Optic Cable." the cable shall exhibit no flow (drip or leak) of filling and/or flooding material at 70°C.
- When tested in accordance with FOTP-41, "Compressive Loading Resistance of Fiber Optic Cables," the cable shall withstand a minimum compressive load of 220 N/cm (125 lbf/in) applied uniformly over the length of the sample. The 220 N/cm (125 lbf/in) load shall be applied at a rate of 2.5 mm (0.1 in) per minute. The load shall be maintained for a period of 1 minute. The load shall then be decreased to 110 N/cm (63 lbf/in). Alternatively, it is acceptable to remove the 220N/cm (125 lbf/in) load entirely and apply the 110 N/cm (63 lbf/in) load within five minutes at a rate of 2.5 mm (0.1 in) per minute. The 110 N/cm (63 lbf/in) load shall be maintained for a period of 10 minutes. Attenuation measurements shall be performed before release of the 110 N/cm (63 lbf/in) load. The change in attenuation shall not exceed 0.15 dB at 1550 nm for single-mode fibers.
- 4.5 When tested in accordance with FOTP-104, "Fiber Optic Cable Cyclic Flexing Test," the cable shall withstand 25 mechanical flexing cycles around a sheave diameter not greater than 20 times the cable diameter. The change in attenuation shall not exceed 0.15 dB at 1550 nm for single-mode fiber.

- 4.6 When tested in accordance with FOTP-25, "Repeated Impact Testing of Fiber Optic Cables and Cable Assemblies," except that the number of cycles shall be two at three locations along a one meter cable length and the impact energy shall be at least 4.4 Nm (in accordance with ICEA S-87-640)", the change in attenuation shall not exceed 0.15 dB at 1550 nm for single-mode fiber.
- 4.7 When tested in accordance with FOTP-33, "Fiber Optic Cable Tensile Loading and Bending Test," using a maximum mandrel and sheave diameter of 560 mm, the cable shall withstand a rated tensile load of 2670N (601 lbf) and residual load of 30% of the rated installation load. The axial fiber strain shall be ≤ 60% of the fiber proof level after completion of 60 minute conditioning and while the cable is under the rated installation load. The axial fiber strain shall be ≤ 20% of the fiber proof level after completion of 10 minute conditioning and while the cable is under the residual load. The change in attenuation at residual load and after load removal shall not exceed 0.15 dB at 1550 nm for single-mode fiber.
- 4.8 When tested in accordance with FOTP-85, "Fiber Optic Cable Twist Test," a length of cable no greater than 2 meters shall withstand 10 cycles of mechanical twisting. The change in attenuation shall not exceed 0.15 dB at 1550 nm for single-mode fiber.
- 4.9 When tested in accordance with FOTP-181, "Lighting Damage Susceptibility Test for Optic Cables with Metallic Components," the cable shall withstand a simulated lightning strike with a peak value of the current pulse equal to 80 kA without loss of fiber continuity. A damped oscillatory test current shall be used with a maximum time-to-peak value of 15 μs (which corresponds to a minimum frequency of 16.7 kHz) and a maximum frequency of 30 kHz. The time to half-value of the waveform envelope shall be from 40 to 70 μs.
- 4.10 When tested in accordance with FOTP-37, "Low or High Temperature Bend Test for Fiber Optic Cable", the cable shall withstand four full turns around a mandrel of ≤ 20 times the cable diameter after conditioning for four hours at test temperatures of -30°C and ÷60°C. Neither the inner or outer surfaces of the jacket shall exhibit visible cracks, splits, tears, or other openings. The change in attenuation shall not exceed 0.30 dB at 1550 nm for single mode fiber.

5.0 Quality Assurance Provision

- 5.1 All cabled optical fibers > 1000 meters in length shall be 100% attenuation tested. Attenuation of each fiber shall be provided with each cable reel.
- 5.2 The cable manufacturer shall be TL 9000 or ISO 9000 registered.

6.0 Packaging

- 6.1 The completed cable shall be packaged for shipment on non-returnable wooden reels. Required cable lengths shall be stated in the purchase order.
- 6.2 Top and bottom ends of the cable shall be available for testing.
- 6.3 Both ends of the cable shall be sealed to prevent the ingress of moisture.
- 6.4 Each reel shall have a weather resistant reel tag or a packing list enclosed in a weather resistant pouch attached identifying the reel and cable.
- 6.5 The reel tag or packing list shall include the following information:

Cable Number
Shipped Cable Length in Meters
Manufacturer's Product Number
Date Cable was Tested
Cable Length Markings

Gross Weight
Job Order Number
Customer Order Number
Manufacturer's Order Number
Item Number

a: Top (inside end of cable)b: Bottom (outside end of cable)

6.6 The reel (one flange) marking shall include:

Manufacturer's Name
Country of origin (e.g. USA)
An arrow indicating proper direction of roll when handling
Fork lift-handling instructions
"DO NOT SHIP REEL ON SIDE" or
"DO NOT LAY REEL ON ITS SIDE" or
"Pick up This Side Only"

"Do Not Remove from Cradle"
"Must Remain Upright"

- 6.7 Each cable shall be accompanied by a cable data sheer.
- 6.8 The cable data sheet shall include the following information:

Manufacturer's Cable Number
Manufacturer's Product Number
Manufacturer's Factory Order Number
Alternate Code
Actual Shipped Length
Measured Attenuation of Each Fiber
(for lengths > 1000 m)

7.0 Miscellaneous

- 7.1 At the request of the customer, the cable manufacturer shall provide installation procedures and technical support concerning the items contained in this specification.
- 7.2 All prospective bidders must provide off-site, hands-on training for two (2) LFUCG technicians at the prospective bidder's expense. The off-site, hands-on training should be a minimum of 24 contact hours per technician.

(Bid items 41 thru 51, "Loose Tube Type Fiber-Optic Cable") (water blocking quotes for non-gel)

	non – gel
41. 6-fiber Cable	***************************************
42. 12-fiber Cable	
43. 24-fiber Cable	
44. 36-fiber Cable	
45. 48-fiber Cable	
46. 72-fiber Cable	
47. 96-fiber Cable	400-4 A-1007-1-000-1-000-1-000-1-000-1-000-1-000-1-000-1-000-1-000-1-000-1-000-1-000-1-000-1-000-1-000-1-000-1
48. 120-fiber Cable	
49. 144-fiber Cable	
50. 156-fiber Cable	
51. 288-fiber Cable	

52. Detectable 5/16-inch Duct Rod with Carr and Accessories:

Duct rod with cart shall be DCD 5/16-inch with the following accessories: Splice Connector, Flexible Guide Head, Pulling Eye, Swivel Rod End (attached), Female Rod End (attached), Roller Guide, Clevis End, Glue, Rod Gripper, Accessory Pouch. Detectable Duct Rod with cart shall be equivalent to MGT Diversified Solutions, LLC part #53700-400

53. Detectable Fiber-Optic Cable Pulling Tape:

Pulling tape shall be Tensile Strength: 1,800-pounds, Width: 5/8-inch, Construction: Woven, Pre-Lubrication: Yes, Foot-Markings: Yes, priced in 1,000-foot lengths. Detectable Fiber-Optic Cable Pulling Tape shall be equivalent to MGT Diversified Solutions, LLC part #P1800T

54. Multilink 16-inch Sno Shoe w/Tap:

Equivalent to Core [Data Com] part # 2116-SSPTB

55. Stackable Cable Spacer:

Panduit # SACS 50-T100, No Substitutes

56. Fiber-Optic Duplex Jumper, 10-meter: Duplex SM 9/125, ST to ST:

Equivalent to Fiber Instrument Sales #DX988S10FIS

57. Fiber-Optic Duplex Jumper, 3-meter, SC to SC:

Equivalent to Fiber Instrument Sales #VDX9YYS3FIS

58. Lasher/Overlasher w/chest, GMP 70400 Apollo

#GMP 70400 Apollo, No Substitutes

59. Fiber Termination Kit (Controller Cabinet): Each kit shall contain the following:

- One (1) Velcro wrap, Black, (1" x 8") w/screw mount cut out, Part #CT3108
- Four (4) Duplex ST to ST 3-meter jumpers, SM, Part #VDX988S3FIS (FIS part #)
- One (1) #313351 Corning-C, SPH-01P, 12-F, Wall Mount Enclosure Single Panel Housing
- One (1) #180699, Corning-C, CCH-CP06-19T, 6-port panel ST SM loaded
- No Substitutes
- Each kit shall have all items listed shipped in one box, per bid item number

60. Fiber Installation Kit (Novice): Each kit shall contain the following:

- One (1) indoor/outdoor 6-fiber single-mode cable, ST connector to pigtail, 100-meter/1 meter breakout, Part #138-S100FIS/6.
- One (1) Velcro wrap, Black, (I" x 8") w/screw mount cut out, Part #CT3108
- Two (2) Duplex ST to ST 3-meter, SM jumper, Part #VDX988S3FIS (FIS part #)
- One (1) #313351 Corning-C, SPH-01P, 12-F, Wall Mount Enclosure Single Panel Housing
- One (1) #180699, Corning-C, CCH-CP06-19T, 6-port panel ST SM loaded
- No Substitutes
- Each kit shall have all items listed shipped in one box, per bid item number

61. Precision Optical Fiber Cleaver:

Equivalent to Fitel #S323

62. Fiber-Optic Shackle:

GMP #70045

63. Fiber-Optic Conduit Checker:

DCD Design #08500-200

64. Fiber-Optic Duct entry Guide, 2-inch:

DCD Design #32500-200

65. Fiber-Optic Duct Entry Guide, 4-inch:

DCD Design #32500-400

66. Fiber-Optic Spool Frame:

DCD Design #58540-010

67. Fiber-Optic Quadrant, Black:

GMP Tools #15316

68. Fiber-Optic Reel Trailer:

Wheeler Reeler Model 35 (Slaback Enterprises Equivalent)

69. Fiber-Optic Equipment Trailer:

Tractor Supply #0191160 Equivalent

70. Pull Rope, 1/2-inch x 1200-feet:

IDEAL #31-851, 1/2-inch x 1200-feet, No Substitutes

71. Optical Fiber Access Tool:

for mid-span Buffer Tube Splits, Corning-C #OFT-000 (No Substitutes)

72. Fiber Lube Applicator Kit:

DCD Design #35100-000 (No Substitutes)

73. Fiber Lube, 5-gallon:

DCD Design #35000-050 (No Substitutes)

74. Starfighter Fiber-Optic Dome Splice Closure Kit:, Kit shall contain

- One (1) 4048D Starfighter dome splice closure (Multilink #10-8365)
- One (1) 4000/4048D Starfighter Aerial Hanger Kit (Multilink #10-8362)
- One (1) 4048-SSTP splice tray 24 single/48 ribbon splice capacity (Multilink #10-8007)
- · Each kit shall have all items listed shipped in one box, per bid item number

75. Aerial Cable Puller:

Condux #18108000, No Substitutes

76. 21-foot Lay Up Stick:

Condux #18143621, No Substitutes

77. Wire Raising Tool:

Condux #18110812, No Substitutes

78. Cable Block Lifter:

Condux #18110834, No Substitutes

79. Cable Block Pusher:

Condux #18109240, No Substitutes

80. Cable Block:

Condux #18001270, No Substitutes

81. Overlash Aerial Puller Cable:

Condux #18308000, No Substitutes

82. Camsplice Assembly Fixture:

FIS #2104040-01 (No Substitutes)

83. Jumper Clamp

N/S Electric M EM 0800, No Substitutes

84. 4000D Dome Kit for 288 Total Splices,: Kit shall contain

- One (1) #10-8146 (4000d Dome w/1 tray)
- Seven (7) #065-001-10 (36 ct trays)
- Three (3) #10-6028 (Cable Addition Kits)
- One (1) #10-5324 (Aerially Hanging Bracket
- All items in kit shall be shipped in one (1) box.

85. HP Procurve 6200yl-24G-mGBIC Switch

Hewlett-Packard #J8992A#ABA, No Substitutes

86. HP Procurve Gigabit-LX-LC Mini-GBIC Transceiver Module

Hewlett-Packard #J4859C, No Substitutes

87. HP Procurve Gigabit Ethernet SFP Mini-GBIC

Hewlett-Packard #J8177C, No Substitutes

88. Rugged Switch RS900G (RuggedComm #RS900G-24-P-2SC10)

89. Rugged Switch RS900G (RuggedComm #RS900G-24-P-2SC25)

90. Digi Port Server TS 2 MEI

Digi North America Part #70001806

91. Conduit Inspection Camera

General Pipe Cleaners Gen-Eye SD Part #CMSDC with standard color camera and 200-ft. rod, No Substitutes

92. Non-Metallic Pole Riser

Extra Heavy Duty Schedule 80 Carlon PV Mold #59411N, No Substitutes

93. Non-Metallic Pole Riser Adaptor

2-inch - 4-inch adaptor for Carlon PV Mold Carlon #E939JN, No Substitutes

94. Fiber-Optic Duplex Jumper, 3-meter, SC to ST

Fiber-Optic Jumpers shall be Duplex SM 9/125, SC to ST, 3-meters long, Equivalent to Fiber Instrument Sales #D38YS3FISC

95. 64-gigabit IPOD Touch Diagnostic/Data Collection Tool

96. Corrugated 1-inch Black Innerduct,

5,000-ft reel, Equivalent to Core Data Comm Part #2001005710 (No Substitutes)

97. Belden 8489

1,000-ft reels (No Substitutes)

98. CAT5 Cable

Part #CAT5E, CM00424ICAT5E-2003, CS-UNIPRIS 2003 GRAY REEL, 24-4P UTP-CMR SOL BC PE/PVC, INDSTRL ETHRNT HI NS MD FLEX, 1,000-ft reels (No Substitutes)

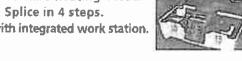




Automated wind-protector.



- World's quickest splicing 7sec. / tube-heating 14sec.
- 图Minimum manual operation. Splice in 4 steps.
- ■Multi-functional carrying case with integrated work station.
- **B**Absolute robustness.







SPECIFICATIONS

OI WALL TOTALISM	
Applicable fibers	Single / SMF (G.652/657), MMF (G.651), DSF (G.853), NZDSF (G.655)
Cladding die. / Sheath die.	60-180µm / 100-3000µm
Gleave length	Smm to 16mm with shouth clamp
Splice mode / heating mode	Total 100 splice modes / 30 hasting modes
Splice loss	0.02dB (SM), 0.01dB (MM), 0.04dB (OSF) and 0.04dB (NZOS) Missured by cut-back method relevant to fTU-T and IEG standards.
Attenuation splice function	Interstantal high splice loss of 0.1dB to 15dB (0.1dB step) can be made for an in-line feed attenuator
Spice time / tube heating time	Typical 7 and with SM / Typical 14sec with FP-03 (60mm) sleeve
Spilos result storage	Last 2000 splices
Viewing methods / magnification	2 axis CMOS camers with 4,73° color LCD, X./ Y (320X magnification), or both X and Y amutaneously (200X magnification)
Tension test	1.96 to 2.25N
Applicable protection elseve	60mm, 40mm and Fulkura micro sleeves
No. of spilos / heating per battery hill charge"!	Typical 200 cycles with BTR-09
Electrode (Ifè	3000 spites
Sizo / weight	146W x 159D x 150H (mm) / 2.7xg (including battery)
Operating condition	Altrude , D to 5.000m above sea level, Wind : 15m/sec Temperature -10 to 50deg C. Humidity ID to 95%HH, non-dew
Rosintance fastures**	Shock - 78cm (30mich) all surface drop Dust - Exposure o dust (D. 1 to 500 im dia Aumina Sticate), IPSX Rain : H=10mm/hr for 10min, IPS2
Other features	PC software upgrade / data management
Terminal s	USS 2.0 (Mint-B type) connector for PC communication. 6-pm Mini-DIN commission for HJS-02 or HJS-03 power supply.

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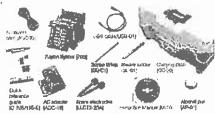
ACCESSORIES

Пов	reption	Medel No.
Steth p	nycksion singre Gber cleavor	CT-65 (for single (bor)
High	precision liber cleaver	DT-30 rexts for single to 12 appoint pure
Per	nty cont stopper	PS-02
Nylo	n tectet stripper	JS-01
1001	nal jacket stripper	HJ\$ 02, HJ\$-03
Prot	ection sleeve	FP-03 / 03 to 40, and FrSc. perc.

Protection sleeve	FP-03 / 03 to 40, and Fe'Scholera	
OPTIONAL MEMS		
Description	Model No.	\$6
	TH 60 950 (scaling da 250µm)	100
	FH 60 900 (coeling de, 900,2n)	GO
	Firt 60 DO250 (costing dos of 250µm in drop cable)	tpa
Fiber holder	HEFG 20 contrigion of 900 (unin 20 mil Security)	1pc
	CHEC 30 (CSIC) As all COunts 3 three Shazilian)	100
	FH-60-1 TROO (800) im dis knoos bedfer fiber	ำกล
40 - 48 - 40 - 1	CLAMP-570C (not been in standard prakage.	1pm
Sheoth clarto	CLAMP \$700 (800pm da locce turler faxe)	104
Unttery pack	B16-09 (L-ion)'9	100
Baltary charge cord	10.70	100
DC name and	DCC 12 flor againtockst)	152
DC power cord	"ACC 13 (with aligned clamb)	100
Electrodos	FLCT2 20A	100

Description	Model No.	Qily
Fusion epicor	709	'μ,
AC adapter	ADC 18	*pc
AC power-sord	ACC XX XX: 14 (JMUS), 16 (FU), 16 (LIQ.11 JAU),	Ipp
Gurying cuse	CG 30	3"10
Spare bleetrades	ELC12-20A	Flore
instruction manual (D) M 70 (Manual and PC software)	1:0
Quick reference guide (C /OS/19S-E (Engisty)		100
Warning and captle	ns W-70-E	Tor
USB nable	USB C1	100
Strave loader	- SC-01	100
Alcohol pot	AF 01	160
Scroy driver	· S() (h)	1pc

STANDARD PACKAGE



Specifications and descriptions are suggest to charge within Length color ϵ

Fujikura Ltd.

Fujikura Asia Ltd.

Fujikura Europe Ltd.

AFL Telecommunications

fujikura (China) Co., Ltd.

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RISK MANAGEMENT PROVISIONS INSURANCE AND INDEMNIFICATION

INDEMNIFICATION AND HOLD HARMLESS PROVISION

- (1) It is understood and agreed by the parties that Vendor hereby assumes the entire responsibility and liability for any and all damages to persons or property caused by or resulting from or arising out of any act or omission on the part of Vendor or its employees, agents, servants, owners, principals, licensees, assigns or subcontractors of any tier (hereinafter "Vendor") under or in connection with this agreement and/or the provision of goods or services and the performance or failure to perform any work required thereby.
- Vendor shall indemnify, save, hold harmless and defend the Lexington-Fayette Urban County Government and its elected and appointed officials, employees, agents, volunteers, and successors in interest (hereinafter "LFUCG") from and against all liability, damages, and losses, including but not limited to, demands, claims, obligations, causes of action, judgments, penaltles, fines, tiens, costs, expenses, interest, defense costs and reasonable attorney's fees that are in any way incidental to or connected with, or that arise or are alleged to have arisen, directly or indirectly, from or by Vendor's performance or breach of the agreement and/or the provision of goods or services provided that: (a) it is attributable to personal injury, bodily injury, sickness, or death, or to injury to or destruction of property (including the loss of use resulting therefrom), or to or from the negligent acts, errors or omissions or willful misconduct of the Vendor; and (b) not caused solely by the active negligence or willful misconduct of LFUCG.
- (3) In the event LFUCG is alleged to be liable based upon the above, Vendor shall defend such allegations and shall bear all costs, fees and expenses of such defense, including but not limited to, all reasonable attorneys' fees and expenses, court costs, and expert witness fees and expenses, using attorneys approved in writing by LFUCG, which approval shall not be unreasonably withheld.
- (4) These provisions shall in no way be limited by any financial responsibility or insurance requirements, and shall survive the termination of this agreement.
- (5) LFUCG is a political subdivision of the Commonwealth of Kentucky. Vendor acknowledges and agrees that LFUCG is unable to provide indemnity or otherwise save, hold harmless, or defend the Vendor in any manner.

FINANCIAL RESPONSIBILITY

Vendor understands and agrees that it shall, prior to final acceptance of its bid and the commencement of any work, demonstrate the ability to assure compliance with the above Indemnity provisions and these other risk management provisions.

INSURANCE REQUIREMENTS

YOUR ATTENTION IS DIRECTED TO THE INSURANCE REQUIREMENTS BELOW, AAND YOU MAY NEED TO CONFER WITH YOUR INSURANCE AGENTS, BROKERS, OR CARRIERS TO DETERMINE IN ADVANCE OF SUBMISSION OF A RESPONSE THE AVAILABILITY OF THE INSURANCE COVERAGES AND ENDORSEMENTS REQUIRED HEREIN. IF YOU FAIL TO COMPLY WITH THE INSURANCE REQUIREMENTS BELOW, YOU MAY BE DISQUALIFIED FROM AWARD OF THE CONTRACT.

Required Insurance Coverage

Vendor shall procure and maintain for the duration of this contract the following or equivalent insurance policies at no less than the limits shown below and cause its subcontractors to maintain similar insurance with limits acceptable to LFUCG in order to protect LFUCG against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work or provision of goods hereunder by Vendor. The cost of such insurance shall be included in any bid:

Coverage

Limits

General Liability
(Insurance Services Office Form CG 00 01)

Commercial Automobile Liability
(Insurance Services Office Form CA 0001)

Worker's Compensation

Limits

\$1 million per occurrence, \$2 million aggregate or \$2 million combined single limit

combined single, \$1 million per occurrence

Statutory

Statutory

\$500,000.00

The policies above shall contain the following conditions:

- a. All Certificates of Insurance forms used by the insurance carrier shall be properly filed and approved by the Department of Insurance for the Commonwealth of Kentucky. LFUCG shall be named as an additional insured in the General Liability Policy and Commercial Automobile Liability Policy using the Kentucky DOI approved forms.
- b. The General Liability Policy shall be primary to any insurance or self-insurance retained by LFUCG.
- c. The General Liability Policy shall include a Products Liability endorsement unless it is deemed not to apply by LFUCG.
- d. LFUCG shall be provided at least 30 days advance written notice via certified mail, return receipt requested, in the event any of the required policies are canceled or non-renewed.
- e. Said coverage shall be written by insurers acceptable to LFUCG and shall be in a form acceptable to LFUCG. Insurance placed with insurers with a rating classification of no less than Excellent (A or A-) and a financial size category of no less than VIII, as defined by the most current Best's Key Rating Guide shall be deemed automatically acceptable.

Renewals

After insurance has been approved by LFUCG, evidence of renewal of an expiring policy must be submitted to LFUCG, and may be submitted on a manually signed renewal endorsement form. If the policy or carrier has changed, however, new evidence of coverage must be submitted in accordance with these insurance Requirements.

Deductibles and Self-Insured Programs

IF YOU INTEND TO SUBMIT A SELF-INSURANCE PLAN IT MUST BE FORWARDED TO LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, DIVISION OF RISK MANAGEMENT, 200 EAST MAIN STREET, LEXINGTON, KENTUCKY 40507 NO LATER THAN A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE RESPONSE DATE. Self-insurance

programs, deductibles, and self-insured retentions in insurance policies are subject to separate approval by Lexington-Fayette Urban County Government's Division of Risk Management, upon review of evidence of Vendor's financial capacity to respond to claims. Any such programs or retentions must provide LFUCG with at least the same protection from liability and defense of suits as would be afforded by first-dollar insurance coverage. If Vendor satisfies any portion of the insurance requirements through deductibles, self-insurance programs, or self-insured retentions, Vendor agrees to provide Lexington-Fayette Urban County Government, Division of Risk Management, the following data prior to the final acceptance of bid and the commencement of any work:

- a. Latest audited financial statement, including auditor's notes.
- Any records of any self-insured trust fund plan or policy and related accounting statements.
- Actuarial funding reports or retained losses.
- d. Risk Management Manual or a description of the self-insurance and risk management program.
- e. A claim loss run summary for the previous five (5) years.
- f. Self-Insured Associations will be considered.

Verification of Coverage

Vendor agrees to furnish LFUCG with all applicable Certificates of Insurance signed by a person authorized by the insurer to bind coverage on its behalf prior to final award, and if requested, shall provide LFUCG copies of all insurance policies, including all endorsements.

Right to Review, Audit and Inspect

Vendor understands and agrees that LFUCG may review, audit and inspect any and all of its records and operations to insure compliance with these Insurance Requirements.

DEFAULT

Vendor understands and agrees that the failure to comply with any of these insurance, safety, or loss control provisions shall constitute default and that LFUCG may elect at its option any single remedy or penalty or any combination of remedies and penalties, as available, including but not limited to purchasing insurance and charging Vendor for any such insurance premiums purchased, or suspending or terminating the work.

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