

FINANCIAL ASSISTANCE AWARD

FEDERAL AWARD ID NUMBER

RECIPIENT NAME

PERIOD OF PERFORMANCE

STREET ADDRESS

FEDERAL SHARE OF COST

CITY, STATE ZIP

RECIPIENT SHARE OF COST

AUTHORITY

TOTAL ESTIMATED COST

CFDA NO. AND NAME

PROJECT TITLE:

Chicago Middle Mile Fiber For Disadvantaged Communities

This Award Document (Form CD-450) signed by the Grants Officer constitutes an obligation of Federal funding. By signing this Form CD-450, the Recipient agrees to comply with the Award provisions checked below and attached. Upon acceptance by the Recipient, the Form CD-450 must be signed by an authorized representative of the Recipient and returned to the Grants Officer. If not signed and returned without modifications by the Recipient within 30 days of receipt, the Grants Officer may unilaterally withdraw this Award offer and de-obligate the funds.

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X DEPARTMENT OF COMMERCE FINANCIAL ASSISTANCE STANDARD TERMS AND CONDITIONS

R & D AWARD

FEDERAL-WIDE RESEARCH TERMS AND CONDITIONS, AS ADOPTED BY THE DEPT. OF COMMERCE

X SPECIFIC AWARD CONDITIONS

X LINE ITEM BUDGET

X 2 CFR PART 200, UNIFORM ADMINISTRATIVE REQUIREMENTS, COST PRINCIPLES, AND AUDIT REQUIREMENTS, AS ADOPTED PURSUANT TO 2 CFR § 1327.101

X 48 CFR PART 31, CONTRACT COST PRINCIPLES AND PROCEDURES

MULTI-YEAR AWARD. PLEASE SEE THE MULTI-YEAR SPECIFIC AWARD CONDITION.

X OTHER(S): GENERAL TERMS AND CONDITIONS for the NTIA MIDDLE MILE GRANT PROGRAM, April 2023

SIGNATURE OF DEPARTMENT OF COMMERCE GRANTS OFFICER

DATE

Andrew Rittgers

06/15/2023

PRINTED NAME, PRINTED TITLE, AND SIGNATURE OF AUTHORIZED RECIPIENT OFFICIAL

DATE

ANDREW RITTGERSDigitally signed by ANDREW RITTGERS
Date: 2023.06.15 11:45:42 -06'00'

Award Number: 17-40-MM554, Amendment Number 0
Federal Program Officer: Jordan Weinstock
Requisition Number: MM1554
Employer Identification Number: 360938500
UEI Number: MJEXZQW6PD76
Recipient ID:
Requestor ID:

Award ACCS Information

Bureau	FCFY	Project-Task	Organization	Object Class	Obligation Amount
61	2023	4720001-000	06-00-0000-00-00-00-00	41-19-00-00	

Award Contact Information

Contact Type	Contact Name	Email	Phone
Administrative			

NIST Grants Officer:
Andrew Rittgers
100 Bureau Drive, MS 1650
Gaithersburg, MD 20899-1650

NIST Grants Specialist:
Damion Hart
100 Bureau Drive, MS 1650
Gaithersburg, MD 20899-1650
(301) 975-3766

NIST Financial Assistance Award Number: 17-40-MM554

Amendment: NEW

Recipient: Commonwealth Edison Company

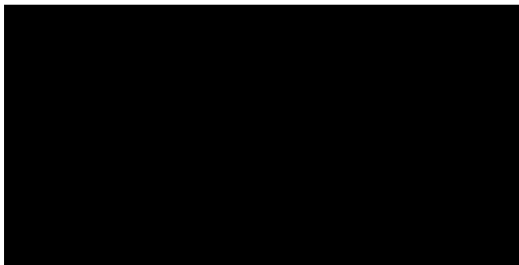
**NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
MIDDLE MILE GRANT PROGRAM
FINANCIAL ASSISTANCE
SPECIFIC AWARD CONDITIONS**

1. Introduction:

The National Institute of Standards and Technology (NIST), servicing for the National Telecommunications and Information Administration (NTIA), hereby enters into this Grant number 17-40-MM554 with Commonwealth Edison Company to support the work described in the proposal entitled “Chicago Middle Mile Fiber For Disadvantaged Communities” dated 9/30/2022 and several submission date(s) of revised budget narrative(s) and/or technical proposal(s) received during application review, which is hereby incorporated into this award by reference. Where the terms of this award and the proposal differ, the terms of this award shall prevail.

2. Recipient Contact Information:

Administrative:



3. NTIA Contact Information:

Federal Program Officer

Jordan Weinstock
National Telecommunications and Information Administration
US Department of Commerce
1401 Constitution Ave., NW, Ste. 4881
Washington, DC 20230
Telephone: 202-834-3782
Email: jweinstock@ntia.doc.gov

4. NIST Contact Information:

Grants Officer:

Andrew Rittgers
National Institute of Standards and Technology
325 Broadway
Boulder, CO 80305
Telephone: 303-497-7307
Email: andrew.rittgers@nist.gov

NIST Financial Assistance Award Number: 17-40-MM554

Amendment: NEW

Recipient: Commonwealth Edison Company

Grants Specialist:

Damion Hart

National Institute of Standards and Technology

100 Bureau Drive, Mail Stop 1650

Gaithersburg, MD 20899-1650

Telephone: 301-975-3766

Email: Damion.Hart@nist.gov

5. Award Payments:

This award is hereby funded through advanced payments using the Department of Treasury's Automated Standard Application for Payments (ASAP) system. Payments will be issued in accordance with 2 CFR § 200.305 and the Department of Commerce Financial Assistance Standard Terms and Conditions, B.02, dated November 12, 2020.

Payments for allowable costs may be drawn down as needed by the Recipient enrolled in ASAP. Funds may be requested through ASAP by the authorized *Payment Requestor* who is the individual designated by the Recipient to access Federal funds.

This award has the following control or withdrawal limits set in ASAP:

- ☐ None
- ☐ Agency Review required for all withdrawals (see explanation below)
- ☐ Agency Review required for all withdrawal requests over \$_____ (see explanation below)
- ☒ Maximum Draw Amount controls (see explanation below)
 - \$_____ each month
 - \$_____ each quarter
 - \$ 0.00 Max drawdown amount

Explanation:

Environmental Assessment & National Historic Preservation Act Compliance Requirements restriction

The total amount of Federal funding is hereby withheld until the requirements identified in the National Institute of Standards and Technology General Terms and Conditions for the NTIA Middle Mile Grant Program, Term #11 – Environmental Assessment and #12 – National Historic Preservation Act (Six-Month Expenditure Plan), are satisfied.

Contingency Costs

Federal funding in the amount of [REDACTED] is hereby withheld until approval of SAC #22 Contingency Costs to request drawdown of funds designed specifically for contingency costs.

6. Return Payments for Funds Withdrawn through ASAP:

Funds that have been withdrawn through ASAP may be returned to ASAP via the Automated Clearing House (ACH) or via FEDWIRE. The ACH or FEDWIRE transaction may only be completed by the Recipient's financial institution. Full or partial

amounts of payments received by a Payment Requestor/Recipient Organization may be returned to ASAP. All funds returned to the ASAP system will be credited to the ASAP Suspense Account. The Suspense Account allows the Regional Financial Center to monitor returned items and ensure that funds are properly credited to the correct ASAP account. Returned funds that cannot be identified and classified to an ASAP account will be dishonored and returned to the originating depository financial institution (ODFI). The Payment Requestor/Recipient Organization should notify the NIST Grants Office and provide a reason whenever return payments are made.

It is essential that the Payment Requestor/Recipient Organization provide its financial institution with ASAP account information (ALC, Recipient ID and Account ID) to which the return is to be credited. Additional detailed information is accessible at: <https://www.fiscal.treasury.gov/asap/>.

7. Period of Performance and Funding Limitations:

The period of performance and budget incorporated into this award cover a [REDACTED] of performance and provide for a maximum total amount of [REDACTED] in Federal funding. This award is being fully funded via this award action.

The maximum amount of NTIA funding in support of this award will not exceed the amount specified in the award documents, unless otherwise amended in writing by the NIST Grants Officer. The Department of Commerce is not liable for any obligations, expenditures, or commitments which involve any amount in excess of the Federal funds being made available pursuant to this award.

8. Federal and Non-Federal Cost Sharing:

As directed by Section 60401(f) of the Infrastructure Act, each recipient must commit to a non-federal cost share of no less than 30 percent of the total project cost, unless exempted through a partial or complete waiver for Tribal governments and Native entities.

Pursuant to this award, NIST hereby approves the committed non-federal cost share in the amount of [REDACTED] per the proposal's budget on the part of the recipient and becomes a binding requirement under subject award (*see* 2 CFR §200). The cost sharing ratio for this award is **17.38%** Federal share and **82.62%** Non-Federal share. See 2 CFR §200.306 and Department of Commerce Financial Assistance Standard Terms and Conditions, Section B.03 for the treatment of cost sharing.

9. Letter of Credit and Opinion Letter

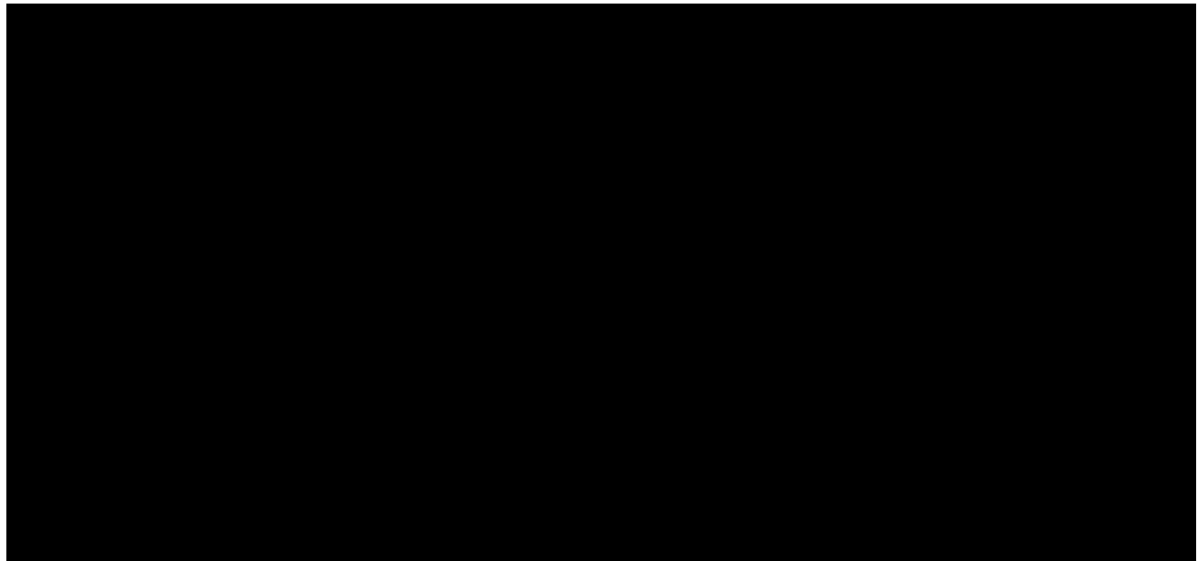
Pursuant to the NOFO, the recipient must submit an irrevocable standby letter of credit in a value of no less than 25% of the award amount. The recipient also must provide with its letter of credit an opinion letter from its legal counsel clearly stating, subject only to customary assumptions, limitations, and qualifications, that in a proceeding under Title 11 of the United States Code, 11 U.S.C. § 101 *et seq.* (the "Bankruptcy Code"), the bankruptcy court would not treat the letter of credit or proceeds of the letter of credit

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as property of the winning bidder's bankruptcy estate under Section 541 of the Bankruptcy Code.



10. Notice of Funding Opportunity – Middle Mile Grant Program

The Department of Commerce, National Telecommunications Information Administration Notice of Funding Opportunity (NOFO) No. NTIA-MMG-2-2022, Middle Mile Grant Program, dated May 13, 2022, is incorporated by reference into this award. It is accessible at: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=340300>. Select “Closed” or “Archived” Opportunity Status to view the NOFO.

11. Department of Commerce Pre-Award Notification Requirements for Grants and Cooperative Agreements:

The Department of Commerce Pre-Award Notification Requirements for Grants and Cooperative Agreements as published in the Federal Register on December 30, 2014 (79 FR 78390) is incorporated by reference into this award. It is accessible at: <http://www.gpo.gov/fdsys/pkg/FR-2014-12-30/pdf/2014-30297.pdf>.

12. Department of Commerce Financial Assistance Standard Terms and Conditions:

As indicated on the Form CD-450 for this award, the Department of Commerce Financial Assistance Standard Terms and Conditions (ST&C) issued November 12, 2020 are incorporated by reference into this award. The Department’s ST&C, as well as a link to 2 CFR Part 200, are accessible at: <https://www.commerce.gov/oam/policy/financial-assistance-policy>

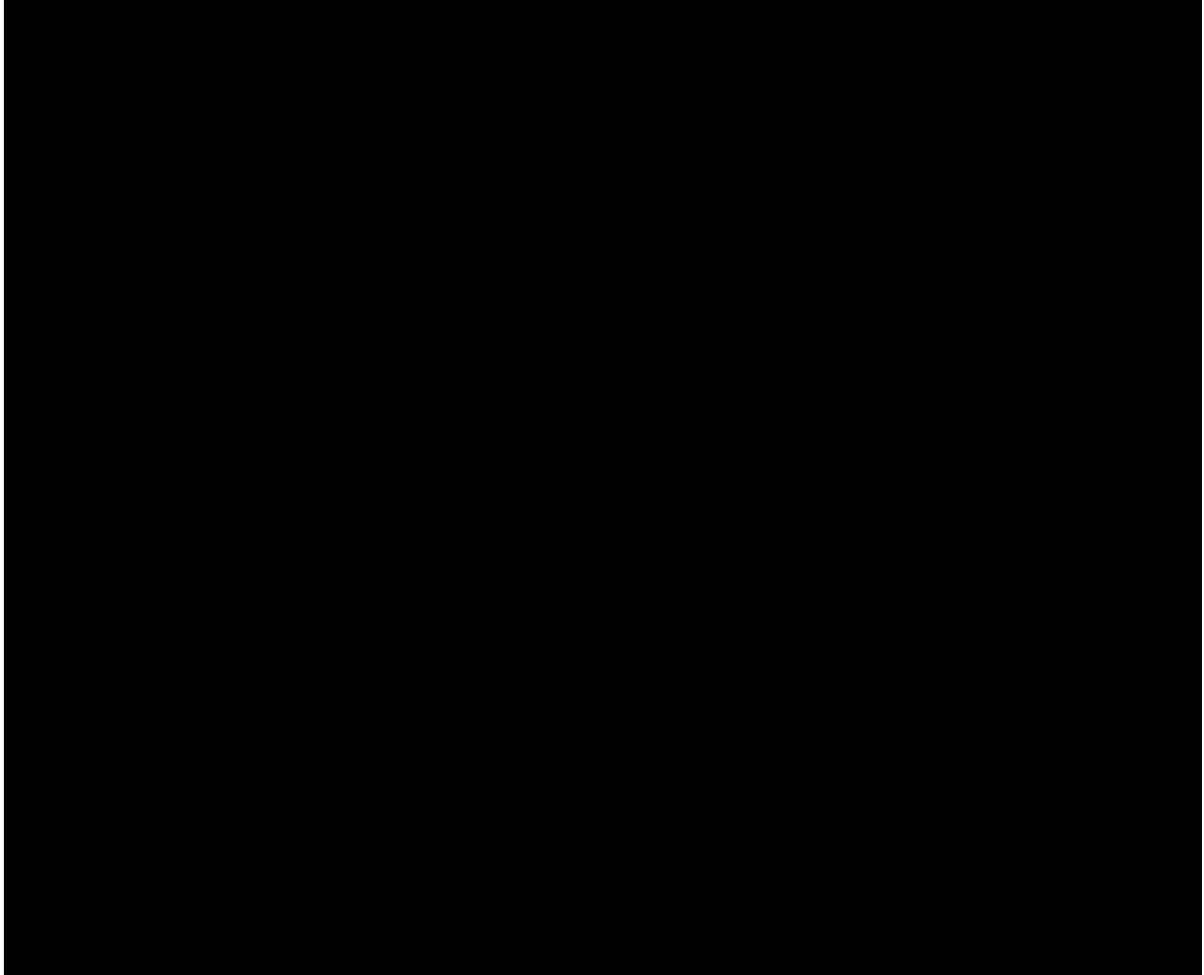
13. Bi-annual Performance and Financial Reporting Requirements

The Recipient must submit a Federal Financial Report (SF-425), and Performance Progress Report on a semi-annual basis for the periods ending March 31 and September 30, or any portion thereof.

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No other correspondence may be sent through this Portal; timely responses to any other inquiries received in this mailbox are not guaranteed. The Portal will not be used for any other purpose except for purposes identified above.

Eligible entities that receive an award shall comply with any other reasonable reporting requirements determined necessary by the NTIA Assistant Secretary.

**14. Department of Commerce Financial Assistance Standard Terms and Conditions
Section B.06 Indirect or Facilities and Administrative Costs:**

NIST will reimburse the Recipient for indirect or F&A costs in accordance with 2 C.F.R. § 200.414 and Section B.06. of the Department of Commerce Financial Assistance Standard Terms and Condition, dated November 12, 2020.

If an indirect cost rate has not been established, and NIST is identified as the cognizant agency for indirect costs in accordance with 2 C.F.R. § 200.1, “Cognizant agency for indirect costs,” within 90 calendar days of the award start date, the Recipient must electronically submit to gmdaudit@nist.gov the documentation (indirect cost rate proposal, cost allocation plan, etc.) necessary to allow NIST to perform an indirect cost rate proposal review. Organizations that have previously established indirect cost rates

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with NIST must submit a new indirect cost rate proposal for indirect costs within six months after the end of the organization's fiscal year.

If your submission includes Personally Identifiable Information (PII) or Business Identifiable Information (BII), please send an email to gmdaudit@nist.gov to request a secure link.

The requirements for determining the relevant cognizant agency and for developing and submitting indirect (F&A) cost rate proposals and cost allocation plans are contained in 2 C.F.R. § 200.414 and in Appendices III-VII to 2 C.F.R. Part 200. For additional guidance on preparing indirect cost proposals, please review the Department of Labor's Guide for Indirect Cost Determination at: <https://www.dol.gov/oasam/boc/dcd/np-comm-guide.htm>. Section I.B and I.C lists the various types of indirect cost rates and the circumstances under which such rates would apply. The guide also addresses common indirect cost problems and contains useful FAQs.

15. Unfunded Grant Actions Mailbox (UGAM):

Requests for unfunded award actions, which include, but are not limited to, requests for no-cost extension, change in key personnel, change in scope of work, budget revisions, award transfer, and novation, must be submitted to: UGAM@nist.gov, within the prescribed timeframes identified in the terms and conditions of the award.

Unfunded award action requests and related correspondence, including justification to support the request, sent to the mailbox **must** contain the following information in the email subject line: (1) Recipient name; (2) NIST award number; (3) Principal Investigator/Project Director; and (4) Action being requested (e.g. no cost extension, change in key personnel, etc.).

Unfunded award action requests must not be sent directly to NIST personnel (e.g. Grants Specialist, Grants Officer, Administrative Assistant, GMD Division Chief, Federal Program Officer, etc.).

Any requests sent directly to NIST personnel will be returned to the sender with instructions on how to submit through the UGAM@nist.gov mailbox.

No other correspondence may be sent through this mailbox; timely responses to any other inquiries received in this mailbox are not guaranteed. The mailbox will not be used for any other purpose **except** for purposes identified above.

Requests that are processed will be authorized via a Form CD-451 Amendment to the Financial Assistance Award or a Non-Funded Administrative Change Letter.

16. Climate Resilience

Because retrofitted and new infrastructure for broadband might be expected to have a lifetime of 20 years or more, the Recipient must account not only for current risks but

also for how the frequency, severity, and nature of these extreme events may plausibly evolve as our climate continues to change over the coming decades.

Accordingly, the recipient must develop a plan for regularly assessing the changing weather and climate risks that could impact the network. Such a plan must demonstrate that the risks are understood and characterized to account for and respond to these areas for the 20 years following deployment, utilizing at least one resource or tool at <https://toolkit.climate.gov/content/understanding-climate-risk-resources-ntia-applicants>. The plan should also detail how the weather and climate risks identified are addressed through avoidance and/or mitigation for the network. The plan should articulate how this process of evaluating the updated climate and weather risk and incorporating that information into the network design, maintenance, upgrades, or similar will be performed at least once during the period of performance and periodically over the life of the project.

The recipient is to report on its climate risk reanalysis in the biannual performance reports.

17. No Duplication of Federal Funding

No federal funds may be used to duplicate costs, services, connections, facilities, or equipment that have been authorized through another federal program. To the extent that a Middle Mile Program project is later deemed to include duplicate funding from another federal program, the NIST Grants Office and NTIA reserve the right to disallow the costs associated with the duplication of federal funds or service and/or to reallocate the funds to allowable activities within the project.

18. Signage and Public Acknowledgements:

The Recipient is required to post project signage and to include public acknowledgments in published and other collateral materials (e.g., press releases, marketing materials, webpages, plaques) satisfactory in form and substance to NIST, that identifies the nature of the project and indicates that “the project is funded by the Infrastructure Investment and Jobs Act. The Recipient employing project signage is required to use the official Investing in America emblem in accordance with the Official Investing in America Emblem Style Guide: <https://www.whitehouse.gov/wp-content/uploads/2023/02/Investing-in-America-Brand-Guide.pdf>. Costs associated with signage and public acknowledgments must be reasonable and limited. Signs or public acknowledgments should not be produced, displayed or published if doing so results in unreasonable cost, expense, or recipient burden. The Recipient is encouraged to use recycled or recovered materials when procuring signs. Any construction site signage should be displayed throughout the construction phase of the project in an easily visible location directly linked to the work taking place. The Recipient is responsible to maintain the signage in good condition throughout the construction period.

19. Pre-Award Costs:

Pre-award costs in the amount of [REDACTED] are acceptable only to the extent of reimbursing reasonable pre-application expenses, which include expenses related to preparing an application that are incurred after the publication date of the subject NOFO and prior to the date of issuance of this grant award, except the lobbying costs and contingency fees are not reimbursable. The approved pre-award costs are a portion of, **not in addition to**, the approved total budget.

[REDACTED]

20. Equipment:

A. Estimated Useful Life and Compliance with 2 C.F.R. § 200.313. For purposes of this award, the estimated useful life of the equipment to be acquired by the recipient varies from the date that such equipment is placed into service on the project. Additional useful life guidance will be forthcoming. During the estimated useful life of the equipment, the recipient must adhere to the requirements contained in the terms and conditions of the award, including adherence to the use, management, and disposition requirements set forth in 2 C.F.R. § 200.313.

B. UCC-1 Filing & Attorney's Certification. Pursuant to 2 C.F.R. § 200.316, within 30 calendar days of acquiring all or any portion of the equipment under this award, the recipient shall properly file a UCC-1 with the appropriate State office where the equipment will be located in accordance with the State's Uniform Commercial Code (UCC). The UCC filing(s) must include the below or substantively similar language providing public notice of the Federal Interest in the equipment acquired with NTIA Middle Mile funding. Also, a clear and accurate inventory of the subject equipment must be attached to and filed with the UCC-1.

The Equipment set forth at Attachment A hereto was acquired with funding under a financial assistance award (Award Number 17-40-MM554) issued by the National Institute of Standards and Technology, U.S. Department of Commerce. As such, the U.S. Department of Commerce retains an undivided equitable reversionary interest (Federal Interest) in the Equipment for the estimated useful life thereof, from when the equipment is placed into service on the project.

In addition, within 15 calendar days following the required UCC filing(s), the recipient must be ready if requested by the Grants Officer to provide the Grants Officer with complete and certified copies of the filed UCC forms and attachments for the equipment acquired with NTIA Middle Mile funding, along with a certification from legal counsel, licensed by the State within which the filings were made (Attorney's Certification), that the UCC filing was properly executed and filed in accordance with applicable state law. The Attorney's Certification must include the below or substantively similar language:

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Amendment: NEW

Recipient: Commonwealth Edison Company

NIST Award Number: 17-40-MM554

Pursuant to 28 U.S.C. § 1746, I hereby certify as follows:

I am legal counsel at _____.

I am licensed to practice law in the State of _____ having been a license holder of said state and in good standing since _____.

Attached hereto is a certified copy of UCC-1 form(s) reflecting that this document was filed in the _____ on _____, 202x, bearing the following filing information [insert filing data, e.g., instrument number, etc.) and consists of _____ recorded pages as certified by the Secretary of State of _____.

I certify that this UCC-1 form(s) has/have been validly executed and properly recorded as noted above.

I certify under the penalty of perjury that the foregoing is true and correct.

Executed on this _____ day of _____.

(Attorney name and title)

(Address and phone number)

In addition, during the estimated useful life of the equipment, the recipient is hereby authorized and directed by the Grants Officer to timely file any necessary UCC-3 continuation statements (or other filings) for the subject equipment consistent with the requirements set forth in this specific award condition. If requested by the Grants Officer, copies of all filed UCC continuation statements, together with an Attorney's Certification, must be submitted to the Grants Officer within 15 calendar days following each such filing. The UCC filing(s) and the accompanying Attorney's Certification(s) must be acceptable in form and in substance to the NIST Grants Officer. If the Grants Officer does not request the UCC filing(s) and Attorney's Certification, the recipient must continue to maintain records of the filing(s) and Attorney's Certification in compliance with 2 CFR § 200.334 Retention requirements for records.

21. **Publication Disclaimers:**

Pursuant to Section G.05.k of the DOC Standard Terms and Conditions, the recipient is required to submit a copy(ies) to the funding agency and when releasing information related to a funded project include a statement that the project or effort undertaken was or is sponsored by DOC. The recipient is also responsible for assuring that every publication of material (including Internet sites) based on or developed under an award, except scientific articles or papers appearing in scientific, technical or professional journals, contains the following disclaimer:

This [report/video/etc.] was prepared by [recipient name] using funds under award [number] from the National Telecommunications and Information Administration (NTIA), U.S. Department of Commerce (DOC). The statements, findings, conclusions, and recommendations are those of the author(s) and do not necessarily reflect the views of the NTIA or DOC

This also applies to videos produced under DOC financial assistance awards.

22. **Contingency Costs:**

To the extent provided in the approved budget, contingency costs are generally allowable under the Middle Mile Program.

The Recipient's use of federal award funds for contingency costs must be pre-approved by the Grants Officer prior to the Recipient drawing down federal award funds for such costs. A Recipient request to draw down federal award funds for contingency costs must be made in writing to the Grants Officer, who shall approve or disapprove the Recipient's request in writing.

End of Specific Award Conditions

**U.S. DEPARTMENT OF COMMERCE
NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
GENERAL TERMS AND CONDITIONS
for the
NTIA MIDDLE MILE GRANT PROGRAM**

April 2023

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1. Project Management Conference

Shortly after approval of the award, NIST (on behalf of NTIA) may contact the Recipient to arrange a project management conference. The purpose of the project management conference is to explain to the Recipient its post-approval responsibilities for administration of the award, including its responsibilities with respect to the Terms and Conditions of the award and applicable Federal requirements. The Recipient's authorized representative, architect/engineer, financial representative, and possibly the Recipient's legal counsel should attend.

2. Property Trust Relationship and Public Notice Filings for Grant-Acquired Property

In accordance with 2 CFR § 200.316 (Property trust relationship), real property, equipment, and intangible property, that are acquired or improved with a Federal award must be held in trust by the non-Federal entity (*i.e.*, Recipient or Subrecipient) as trustee for the beneficiaries of the project or program under which the property was acquired or improved. This trust relationship exists throughout the duration of the property's estimated useful life, as determined by the Grants Officer in consultation with the Program Office, during which time the Federal Government retains an undivided, equitable reversionary interest in the property (Federal Interest). The non-Federal entity must comply with all use and disposition requirements and restrictions as set forth in 2 C.F.R. §§ 200.310 (Insurance coverage) through 200.316 (Property trust relationship), as applicable, and in the terms and conditions of the Federal award.

The Grants Officer may require a non-Federal entity (*i.e.*, a Recipient or Subrecipient) to execute and to record (as applicable) a statement of interest, financing statement (Form UCC-1), lien, mortgage or other public notice of record to indicate that real or personal property acquired or improved in whole or in part pursuant to a Middle Mile Grant Program award is subject to the Federal Interest, and that certain use and disposition requirements apply to the property. The statement of interest, financing statement (Form UCC-1), lien, mortgage or other public notice must be acceptable in form and substance to NTIA and to the NIST Grants Officer and must be placed on record in accordance with applicable State and local law, with continuances re-filed as appropriate. In such cases, the NIST Grants Officer may further require the non-Federal entity to provide NTIA and the NIST Grants Officer with a written statement from a licensed attorney in the jurisdiction where the property is located, certifying that the Federal Interest has been protected, as required under the award and in accordance with applicable State and local law. The attorney's statement, along with a copy of the instrument reflecting the recordation of the Federal Interest, must be promptly returned to the Grants Officer. The non-Federal entity may use model documentation made available by NTIA.

Without releasing or excusing the non-Federal entity from these obligations, the non-Federal entity, by execution of the financial assistance award or by expending Federal financial assistance funds (in the case of a subrecipient), authorizes NTIA and/or the NIST Grants Officer to file such notices and continuations as it determines to be necessary or convenient to disclose and protect the Federal Interest in the property. The NIST Grants Officer may elect not to release any or a portion of the Federal award funds until the non-Federal entity has complied with this provision and any other applicable award terms or conditions, unless other arrangements satisfactory to the NIST Grants Officer are made.

3. Land, Easements, and Rights of Way

The Recipient must disclose all encumbrances to NIST. NIST will not accept any encumbrance that interferes with the construction, intended use, operation, or maintenance of the project during its estimated useful life.

4. Project Sign

The Recipient is responsible for constructing, erecting, and maintaining in good condition throughout the construction phase of the project a sign(s) satisfactory to NIST that identifies the project and indicates that the project is Federally funded. The sign shall:

- Be designed in accordance with the guidelines and design specifications found in the Building A Better America Brand Guide found here: <https://www.whitehouse.gov/wp-content/uploads/2022/08/Building-A-Better-America-Brand-Guide.pdf>
- Be placed in an easily visible location that can be directly linked to the work taking place; and,
- Identify the project as a “project funded by President Biden’s Bipartisan Infrastructure Law.”

The recipient should use best effort to use recycled or recovered materials when procuring signs. The recipient shall also ensure costs associated with signage are reasonable and limited,

NIST also may require that the Recipient maintain a permanent plaque or sign at the project site with the same or similar information.

5. Eminent Domain

In accordance with Executive Order 13406, “*Protecting the Property Rights of the American People*” (June 28, 2006), the Recipient agrees:

- (a) Not to use any power of eminent domain available to the Recipient (including the commencement of eminent domain proceedings) for use in connection with the Project for the purpose of advancing the economic interests of private parties;
- (b) Not to accept title to land, easements, or other interest in land acquired by the use of any power of eminent domain for use in connection with the Project for such purposes; and
- (c) Any use of the power of eminent domain to acquire land, easements or interests in land, whether by the Recipient or any other entity that has the power of eminent domain, in connection with the Project without prior written consent of NIST constitutes an unauthorized activity and/or use of funds under the award, and subjects the recipient to appropriate enforcement action by the Grants Officer, including but not limited to the disallowance of award costs and the termination of an award.

6. Construction Contract Security Bond

Pursuant to 2 CFR § 200.326, for construction or facility improvement contracts or subcontracts exceeding the Simplified Acquisition Threshold (currently \$250,000), the Recipient may submit its bonding policy and requirements to the Grants Officer for a determination whether the Federal Government's interest is adequately protected. If such a determination has not been made, the minimum bonding requirements of 2 CFR § 200.326 (Bonding requirements) shall apply.

7. Inspection And Testing of Materials

The Recipient shall ensure that all materials and equipment used in the completion of the work shall be subject to adequate inspection and testing in accordance with accepted standards. Materials of construction, particularly those upon which the strength and durability of any structure may depend, shall be subject to inspection and testing to establish conformance with specifications and suitability for intended uses. The Recipient shall ensure that documentation of same is cataloged and retained.

8. Energy Efficiency

The Recipient shall apply, where feasible, sustainable, and energy efficient, design principles for the purpose of reducing pollution and energy costs and optimizing lifecycle costs associated with the construction.

9. Requirements During Construction

During construction, the Recipient is responsible for:

- (a) Ensuring project completion in accordance with approved plans and specifications;
- (b) Monitoring project progress and reporting progress to NTIA and NIST;
- (c) Providing for required construction permits and adequate construction inspection;
- (d) Promptly paying costs incurred for the project purposes;
- (e) Monitoring contractors' compliance with Federal, State, and local requirements; and
- (f) Constructing and maintaining in good condition throughout the construction period, of a sign or signs, at the project site in a conspicuous place indicating that the Federal Government is participating in the project.

10. Recipient and Contractor Compliance with Applicable Requirements

The Recipient shall comply, and must require each subrecipient or contractor, including lower tier subrecipients or subcontractors, to comply with all applicable Federal, state, and local laws and regulations. The Recipient is responsible for ensuring that all contracts necessary for design and construction of the Project facilities are implemented in compliance with the Terms and Conditions of this Award.

11. Environmental Assessment

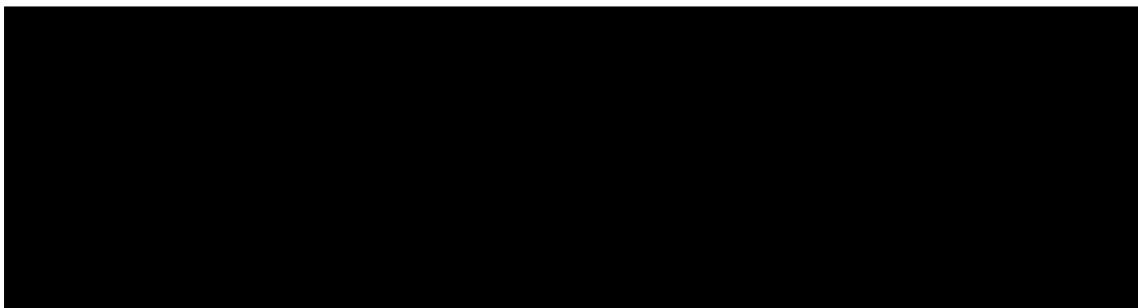
The Recipient must comply with all environmental standards and identify to NTIA any impact a proposed infrastructure project may have on the environment. The Recipient may not expend

any federal infrastructure funds other than for engineering design, permitting and work related to environmental, historical and cultural reviews, and limited, preliminary procurement funds, as described below, prior to the following:

- The completion of environmental review and issuance of a Categorical Exclusion (Cat Ex) Decision Memo, Record of Consideration (REC), Finding of No Significant Impact (FONSI), or Record of Decision (ROD) (hereinafter “decision documents”) that meets the requirements of the National Environmental Policy Act of 1969 (42 U.S.C. 4321, *et seq.*);
- The completion of any required consultations, to include consultations with the State Historic Preservation Office (SHPO) and the appropriate federally recognized Native American tribes, under Section 106 of the National Historic Preservation Act of 1966 (16 U.S.C. 470, *et seq.*) (NHPA), and/or consultations with the U.S. Fish and Wildlife Service (USFWS) under Section 7 of the Endangered Species Act (16 U.S.C. 1531, *et seq.*), and/or consultations with the U.S. Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act (33 U.S.C. 1251, *et seq.*); and/or
- Demonstration of compliance with all other applicable federal, state, and local environmental laws and regulations.

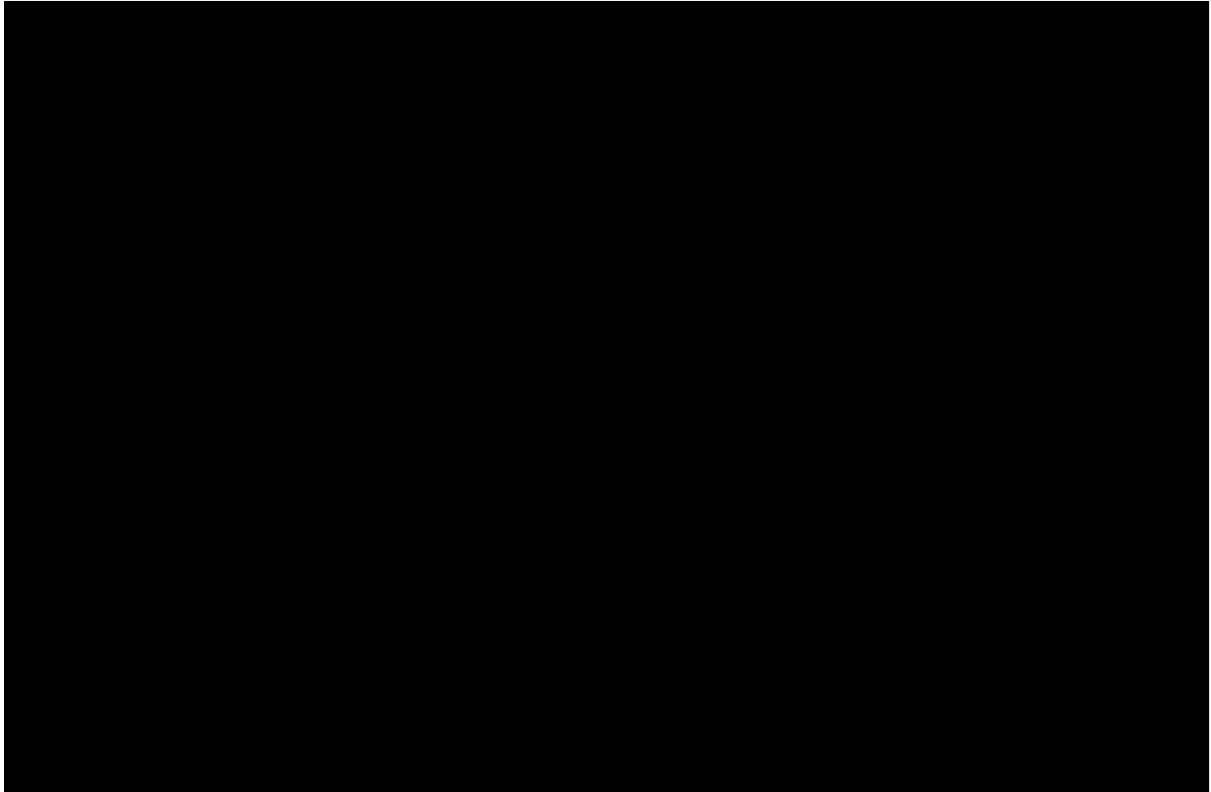
Project implementation (site preparation, demolition, construction, ground disturbance, or any other project implementation activities) may not begin prior to the completion of the above activities. The completion of a draft environmental assessment (EA) or equivalent document, and completion of any required consultations under Section 106 of the NHPA, must be completed no later than six months after the award date unless a formal request for extension is submitted and approved by the Grants Officer. The Recipient must comply with all conditions placed on the project as the result of consultation processes.

Subject to the Grants Officer’s approval of the Recipient’s 6-month expenditure plan (described below), the allowable use of award funds prior to beginning project implementation includes, but is not limited to, activities necessary for the completion of the following:



The allowable use of funds for limited, preliminary procurements prior to beginning project implementation includes, but is not limited to, the initiation of activities necessary to meet the project completion requirements as specified in the award, including the following:



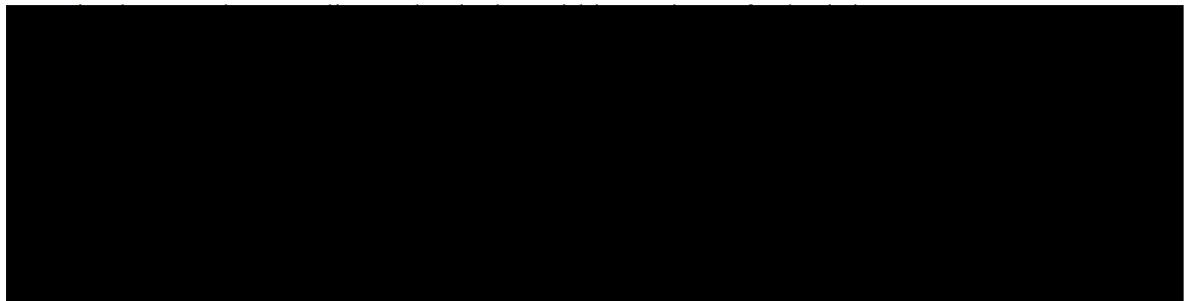


While this SAC is in effect, the Recipient shall submit, in advance of any drawdowns of funds from ASAP, an initial 6-month expenditure plan that presents the proposed planning and design activities and limited, preliminary procurement activities and costs. The initial 6-month expenditure plan will be submitted via email to the Federal Program Officer, who will review it and provide recommendations to the Grants Officer for final approval to ensure that the proposed activities and expenditures are reasonable and necessary in the context of environmental compliance. The Federal Program Officer must review and recommend, and the Grants Officer must approve the initial 6-month expenditure plan prior to fund drawdowns through ASAP.

The completion of a draft EA will be submitted via email to the Environmental Federal Program Officer and Federal Program Officer. Once the environmental review has been completed, NTIA will review all documentation and determine whether the review sufficiently addresses all resource areas and whether the project may qualify for approval decision. Projects found to have significant impacts to environmental or historic resources may face de-obligation of funding if impacts cannot be mitigated. The Recipient is required to provide any information requested by NTIA to ensure both initial and ongoing compliance with environmental and historic preservation laws, regulations, and best practices. The Recipient shall notify NTIA within 24 hours upon receipt of any notices of foreclosure; notices for continuing consultation received from the SHPO, Tribal Historic Preservation Office (THPO), USFWS, or other consulting party; or notices of noncompliance received from consulting authorities or regulatory agencies.

Any change to the approved project scope that has the potential for altering the nature or extent of environmental or cultural resources impacts must be brought to the attention of NTIA and will be re-evaluated for compliance with applicable regulatory requirements.

For all ground disturbing activities that occur during project implementation in the vicinity of known archaeological sites or suspected or known burials, the Recipient must ensure that an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards monitors ground disturbance, and if any potential archeological resources or buried human remains are discovered, then the Recipient must immediately cease construction in that area and notify NTIA and the interested SHPO, THPO, and tribes. Such construction activities may then only continue with the written approval of NTIA.



12. National Historic Preservation Act

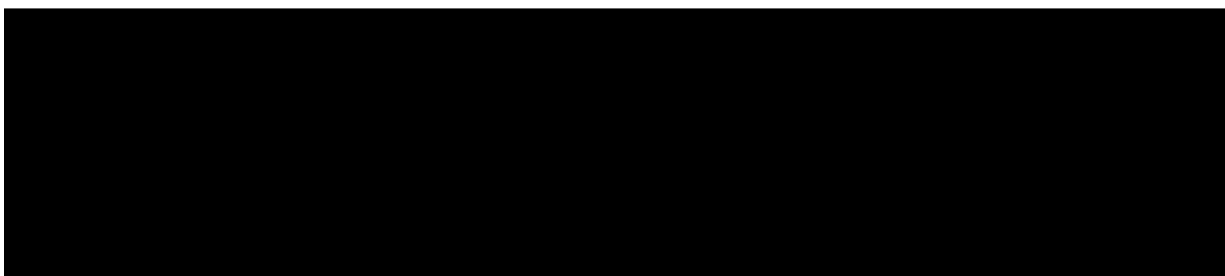
The Recipient may not expend any federal infrastructure funds other than for engineering design, permitting and work related to environmental, historical and cultural reviews, and limited, preliminary procurement funds prior to the following:

- The completion of any required consultations, to include consultations with the State Historic Preservation Officer (SHPO) and the appropriate federally recognized Native American tribes, under Section 106 of the National Historic Preservation Act of 1966 (16 U.S.C. 470, *et seq.*) (NHPA); and/or
- Demonstration of compliance with all other applicable Federal, State, and local environmental laws and regulations.


Project implementation (site preparation, demolition, construction, ground disturbance, or any other project implementation activities) may not begin prior to the completion of the above activities. The completion of any required consultations under Section 106 of the NHPA must be completed no later than six months after the award date unless a formal request for extension is submitted and approved by the Grants Officer. The Recipient must comply with all conditions placed on the project as the result of consultation processes.

Subject to the Grants Officer's approval of the Recipient's 6-month expenditure plan (described below), the allowable use of funds for planning and design activities prior to beginning project implementation includes, but is not limited to, activities necessary for the completion of the following:





The allowable use of funds for limited, preliminary procurements prior to beginning project implementation includes, but is not limited to, the initiation of activities necessary to meet the project completion requirements as specified in the award, including the following:



While this SAC is in effect, the Recipient shall submit, in advance of any drawdowns of funds from ASAP, an initial 6-month expenditure plan that presents the proposed planning and design activities and limited, preliminary procurement activities and costs. The initial 6-month expenditure plan will be submitted via email to the Federal Program Officer, who will review it and provide recommendations to the Grants Officer for final approval to ensure that the proposed activities and expenditures are reasonable and necessary in the context of environmental compliance. The Federal Program Officer must review and recommend, and the Grants Officer must approve the initial 6-month expenditure plan prior to fund drawdowns through ASAP.

The allowable use of preliminary procurement funds is limited; must not result in an irrevocable commitment of resources; and is only allowed after inclusion in and approval of an initial 6-month expenditure plan. The initial 6-month expenditure plan is due in advance of any infrastructure funds draw down from ASAP and will be reviewed by the Federal Program Officer, who will make recommendations to the Grants Officer (who has final approval authority) to ensure all proposed procurement funds are reasonable and necessary to ensure that the project completion deadline requirements are met. All contracts must contain early termination clauses with termination costs clearly specified. All equipment purchased or leased in advance of project implementation and before completion of applicable consultations must be stored in locations other than the proposed project site and where there will be no impact to the environment, human health, or cultural resources (in most cases, this means equipment must be stored in existing warehouses). Under no circumstances will grant funds be drawn down for clearing or excavating land, or demolition or construction, before all environmental SACs are completed and cleared. This limited, preliminary allowable use of funds for purchases and leases is designed for recipient flexibility and to streamline preparation for project implementation simultaneously during consultations; the clause, and all applicable restrictions, is lifted once the applicable consultations are complete, and decision document is issued.

Consultation documentation will be submitted via email to the Environmental Federal Program Officer and Federal Program Officer. Once the consultation activities have been completed, NTIA will review all documentation and determine whether the consultation activities sufficiently address historical and/or cultural resource impacts. Projects found to have

significant impacts to environmental or historic resources may face de-obligation of funding if impacts cannot be mitigated. The Recipient is required to provide any information requested by NTIA to ensure both initial and ongoing compliance with environmental and historic preservation laws, regulations, and best practices. The Recipient shall notify NTIA within 24 hours upon receipt of any notices of foreclosure; notices for continuing consultation received from the SHPO, Tribal Historic Preservation Officer (THPO), or other consulting party; or notices of noncompliance received from consulting authorities or regulatory agencies.

For all ground disturbing activities that occur during project implementation in the vicinity of known archaeological sites or suspected or known burials, the Recipient must ensure that an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards monitors ground disturbance, and if any potential archeological resources or buried human remains are discovered, then the Recipient must immediately cease construction in that area and notify NTIA and the interested SHPO, THPO, and tribes. Such construction activities may then only continue with the written approval of NTIA.

Any change to the approved project scope that has the potential for altering the nature or extent of cultural resources impacts must be brought to the attention of NTIA and will be re-evaluated for compliance with applicable regulatory requirements.

A revised 6-month expenditure plan is due within 30 days of submitting a FONSI to NTIA. The revised 6-month expenditure plan must outline how the Recipient plans on expending the remaining budget costs related to construction-type activities. This plan should be submitted via email to the Federal Program Officer who will review it and provide recommendations to the Grants Officer for final approval to ensure that the proposed activities and expenditures are reasonable and necessary. The Federal Program Officer must review and recommend, and the Grants Officer must approve, the revised 6-month expenditure plan prior to fund drawdowns through ASAP.

13. Tribal Employment Rights Ordinances

In accordance with Departmental policy, NIST must recognize Tribal Employment Rights Ordinances (TEROs), which may provide for preferences in contracting and employment, in connection with its financial assistance awards. Tribal ordinances requiring preference in contracting, hiring, and firing and the payment of a TERO fee are allowable provisions under Federal awards and is incorporated by NTIA into Middle Mile Grant Program grants with Native American/Alaska Native/Native Hawaiian entities. The payment of the TERO fee, which supports the tribal employment rights office to administer the preferences, should generally be allowable as an expense that is "necessary and reasonable for proper and efficient performance and administration" of an award, as provided under as provided under 2 CFR § 200.403.

14. Scheduling Inspection for Final Acceptance

The Recipient will schedule its final inspection when all construction has been completed, the architect/engineer has conducted its own final inspection, and any deficiencies have been corrected. Representatives of the Recipient, the architect/engineer, and the contractor(s) will make the Recipient's final inspection. NTIA must be given advance notice of the final inspection so that a representative of NTIA may participate.

15. Build America, Buy America – Required Use of Domestic Fiber Optic Glass and Fiber Optic Cable

A. Applicability & Scope: Pursuant to the Infrastructure Investment and Jobs Act, 2021, Pub. L. No. 117-58, 135 Stat. 429 (Nov. 15, 2021) (IIJA) including the Build America, Buy America Act, Pub. L. No. 117-58, §§ 70901-52 (BABA), as well as guidance provided by Memorandum for Heads of Executive Departments and Agencies, Initial Implementation Guidance on Application of Buy America Preference in Federal Financial Assistance Programs for Infrastructure, Executive Office of the President, Office of Management and Budget (April 18, 2022) (OMB M-22-11), recipients of a federal financial assistance award from the U.S. Department of Commerce (DoC) are hereby notified that none of the funds provided under this award may be used for a Middle Mile (MM) infrastructure project unless all of the fiber optic glass and fiber optic cable used in the project is produced in the United States. The Buy America domestic content procurement preference only applies to fiber optic glass and to fiber optic cable that are consumed in, incorporated into, or affixed to a MM infrastructure project. As applicable, the requirements of this subsection must be included in all subawards and contracts, including all contracts and purchase orders for work or products pursuant to this program.

B. Waivers: When necessary, recipients may apply for, and DoC may grant, a waiver from the Buy America domestic content procurement preference applicable to MM awards. When DoC has made a determination that one of the following exceptions applies, the awarding official may waive the application of the Buy America domestic content procurement preference in any case in which DoC determines that:

- 1) applying the Buy America domestic content procurement preference to the fiber optic glass and/or fiber optic cable needed for the MM project would be inconsistent with the public interest;
- 2) the fiber optic glass and/or fiber optic cable needed for the MM project are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality; or
- 3) the inclusion of fiber optic glass and/or fiber optic cable needed for the MM project and produced in the United States will increase the cost of the overall project by more than 25 percent.

A request to waive the application of the Buy America domestic content procurement preference must be submitted in writing. The NTIA Federal Program Officer will provide instructions on the format, contents, and supporting materials required for any waiver request. Waiver requests are subject to public comment periods of no less than 15 days and must be reviewed by the Office of Management and Budget Made in America Office. There may be instances where an award qualifies, in whole or in part, for an existing waiver accessible at: <https://www.whitehouse.gov/omb/management/made-in-america/build-america-buy-america-act-federal-financial-assistance/>.

Please note that NTIA has waived the Buy America domestic content procurement preference requirement for all iron, steel, manufactured products, and construction

materials used in MM infrastructure projects, with the exceptions of fiber optic glass and fiber optic cable. See *Limited Applicability Nonavailability Waiver of the Buy America Domestic Content Procurement Preference as Applied to Recipients of Middle Mile Grant Program Awards*, which was issued by the Assistant Secretary of Commerce for Communications and Information on April 18, 2023 and is accessible at: <https://www.commerce.gov/oam/build-america-buy-america>.

Notwithstanding the NTIA waiver and excepting fiber optic glass and fiber optic cable used in a MM project, the Recipient should, as appropriate and consistent with law and to the greatest extent practicable, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including, but not limited to, iron, aluminum, steel, cement, and other manufactured products). As applicable, the requirements of this subsection must be included in all subawards, including all contracts and purchase orders for work or products pursuant to this program. See 2 CFR § 200.322, *Domestic preference for procurements*.

C. Definitions:

“Construction materials” includes an article, material, or supply—other than an item of primarily iron or steel; a manufactured product; cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives¹—that is or consists primarily of:

- non-ferrous metals;
- plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables);
- glass (including optic glass);
- lumber; or
- drywall.

In the case of construction materials, all manufacturing processes for the construction material must have occurred in the United States.²

“Domestic content procurement preference” means all iron and steel used in the project are produced in the United States; the manufactured products used in the project are produced in the United States; or the construction materials used in the project are produced in the United States.

“Infrastructure” includes, at a minimum, the structures, facilities, and equipment for, in the United States, roads, highways, and bridges; public transportation; dams, ports, harbors, and other maritime facilities; intercity passenger and freight railroads; freight and intermodal facilities; airports; water systems, including drinking water and wastewater systems; electrical transmission facilities and systems; utilities; broadband infrastructure;

¹ IJA, § 70917(c)(1).

² *Id.* at § 70912(6)(C).

and buildings and real property. Infrastructure includes facilities that generate, transport, and distribute energy.

“Project” means the construction, alteration, maintenance, or repair of infrastructure in the United States.

D. Recordkeeping and Reporting: In accord with 2 C.F.R. § 200.334, *Retention requirements for records*, the recipient is required to maintain detailed records pertinent to a MM award, including financial records, procurement records, and real property/equipment records. In this connection, the recipient is required to maintain detailed records concerning the acquisition of all iron, steel, manufactured products, and construction materials used in MM projects. For fiber optic glass and fiber optic cable used in a MM project, this includes but is not limited to the: acquisition date; acquisition price; verification of domestic sourcing (unless DoC issues a waiver); how it was used in the project; and current location. Additionally, the recipient is required to maintain detailed records concerning the acquisition of iron, steel, manufactured products, and construction materials from foreign sources that are used in a MM project, including but not limited to: acquisition date; acquisition price; efforts to source domestically; foreign source(s); how it was used in the project; and current location. NTIA may require the recipient to report such information to the Agency at a time and in the format specified by the NTIA Federal Program Officer.

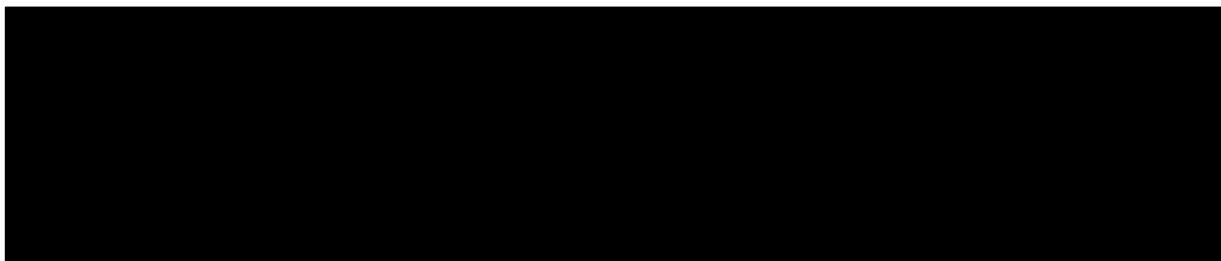
E. Questions: Questions concerning the Buy America domestic content procurement preference requirements applicable to MM awards should be addressed to the NTIA Federal Program Officer.


16. Contracting with Small and Minority Businesses, Women’s Business Enterprises, and Labor Surplus Area Firms

Pursuant to 2 CFR § 200.321, the Recipient and its subrecipients must take all necessary affirmative steps (as described in 2 CFR § 200.321) to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

17. Open Network Requirements

The Recipient must comply with NTIA’s open network requirements, which allows all other broadband service providers to interconnect with networks and other broadband infrastructure deployed using funds from this grant program on fair and non-discriminatory terms and conditions. The requirement to interconnect will apply to Recipients that deploy middle mile networks or submarine cable landing stations and not last mile networks.





18. Prohibition on Use for Covered Communications Equipment or Services

A Recipient or subrecipient may not use grant funds received under the Middle Mile Grant Program to purchase or support any covered communications equipment or service (as defined in section 9 of the Secure and Trusted Communications Networks Act of 2019 (47 U.S.C. 1608)). *See also* 2 C.F.R. 200.216 (Prohibition on certain telecommunications and video surveillance services or equipment), which also applies to this award.

19. Prevention of Waste, Fraud, and Abuse

Consistent with the principles in 2 CFR part 200, at any time(s) during the grant period of performance, NTIA may direct a Recipient's key personnel to take a Government-provided training on preventing waste, fraud and abuse. Key personnel include those responsible for managing the Recipient's finances and overseeing any contractors, sub-contractors or sub-recipients (for financial matters and/or general oversight related to the grant). NTIA will provide instructions on when and how to take such training(s), and costs incurred by a Recipient relative to the training (*e.g.*, staff time) are eligible for reimbursement pursuant to the NTIA award.

Further, recipients must monitor award activities for common fraud schemes, including but not limited to:

- false claims for materials and labor;
- bribes related to the acquisition of materials and labor;
- product substitution;
- mismarking or mislabeling on products and materials; and
- time and materials overcharging.

Should a Recipient detect any fraud schemes or any other suspicious activity, the grant recipient must contact its assigned NTIA Federal Program Officer and the Department of Commerce, Office of Inspector General Hotline, as indicated at <https://www.oig.doc.gov/Pages/Contact-Us.aspx>, as soon as possible. Additionally, in accordance with 2 CFR § 200.113, an applicant or recipient must disclose, in a timely manner, in writing to the Federal awarding agency or pass-through entity all violations of Federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the Federal award. Non-Federal entities that have received a Federal award are required to report certain civil, criminal, or administrative proceedings to SAM.gov. Failure to make required disclosures can result in any of the remedies described in Section 200.339. (*See also* 2 CFR Part 180, 31 U.S.C. § 3321, and 41 U.S.C. § 2313.)

20. Protection of Whistleblowers

The Department of Commerce Financial Assistance Standard Terms and Conditions are incorporated into every NTIA grant award. Section F.05 of these Terms and Conditions states that each award is subject to the whistleblower protections afforded by 41 U.S.C. § 4712 (Enhancement of contractor protection from reprisal for disclosure of certain information).

Generally, this law provides that an employee or contractor (including subcontractors and personal services contractors) of a non-Federal entity may not be discharged, demoted, or otherwise discriminated against as a reprisal for disclosing to a person or body information that the employee reasonably believes is evidence of gross mismanagement of a Federal award, subaward, or a contract under a Federal award or subaward, a gross waste of Federal funds, an abuse of authority relating to a Federal award or subaward or contract under a Federal award or subaward, a substantial and specific danger to public health or safety, or a violation of law, rule, or regulation related to a Federal award, subaward, or contract under a Federal award or subaward.

Non-Federal entities and contractors under Federal awards and subawards must inform their employees in writing of the rights and remedies provided under 41 U.S.C. § 4712, in the predominant native language of the workforce.

A person that believes they have been the subject of retaliation for protected whistleblowing can contact the Department of Commerce, Office of Inspector General Hotline, as indicated at <https://www.oig.doc.gov/Pages/Hotline.aspx>, or the U.S. Office of Special Counsel, toll free at 1-800-872-9855.

BUDGET INFORMATION - Construction Programs

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case, you will be notified.

COST CLASSIFICATION	a. Total Cost	b. Costs Not Allowable for Participation	c. Total Allowable Costs (Columns a-b)
1. Administrative and legal expenses		\$	
2. Land, structures, rights-of-way, appraisals, etc.		\$	
3. Relocation expenses and payments		\$	
4. Architectural and engineering fees		\$	
5. Other architectural and engineering fees		\$	
6. Project inspection fees		\$	
7. Site work		\$	
8. Demolition and removal		\$	
9. Construction		\$	
10. Equipment		\$	
11. Miscellaneous		\$	
12. SUBTOTAL (sum of lines 1-11)		\$0	
13. Contingencies		\$	
14. SUBTOTAL		\$0	
15. Project (program) income		\$	
16. TOTAL PROJECT COSTS (subtract #15 from #14)		\$0	
FEDERAL FUNDING			
17. Federal assistance requested, calculate as follows: (Consult Federal agency for Federal percentage share.) Enter the resulting Federal share.	Enter eligible costs from line 16c Multiply X <u>17.38</u> %		\$ XXXXXXXXXX

Middle Mile Grant Program
Detailed Budget Justification Template

OMB Control No. 0560-0045
Expiration Date: 11/30/2022

	Unit Type	Unit Cost	No. of Units	Total Cost	Federal Funds Requested	Cash Match Amount	In Kind Contribution Value	Match Type (Cash/In-Kind/Both)	Match Percentage	Allowable Total	Notes/Comments
Total Project (program) Income				\$	-	\$0	\$0				

[illegible]

Applicants should also review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, 'New Restrictions on Lobbying.' The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Commerce determines to award the covered transaction, grant, or cooperative agreement.

LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or loan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, 'Disclosure Form to Report Lobbying,' in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.

*** NAME OF APPLICANT**

Commonwealth Edison

*** AWARD NUMBER**

NTIA-MMG-2022

*** PROJECT NAME**

Chicagoland Middle Mile Fiber For Disadvantaged Communities

Prefix:

* First Name:

Middle Name:

* Last Name:

Suffix:

* Title:

* SIGNATURE:

* DATE:

10/18/2022

Application for Federal Assistance SF-424

* 1. Type of Submission:

- ☐ Preapplication
☒ Application
☐ Changed/Corrected Application

* 2. Type of Application:

- ☒ New
☐ Continuation
☐ Revision

* If Revision, select appropriate letter(s):

* Other (Specify):

* 3. Date Received:

10-21-2022

4. Applicant Identifier:

5a. Federal Entity Identifier:

5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name:

COMMONWEALTH EDISON COMPANY

* b. Employer/Taxpayer Identification Number (EIN/TIN):

* c. UEI:

d. Address:

* Street1:

Street2:

* City:

County/Parish:

* State:

Province:

* Country:

USA: UNITED STATES

* Zip / Postal Code:

60603-2397

e. Organizational Unit:

Department Name:

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

Mr.

* First Name:

Middle Name:

* Last Name:

Suffix:

Title: Principal Business Program Manager

Organizational Affiliation:

* Telephone Number:

Fax Number:

* Email:

Application for Federal Assistance SF-424

* 9. Type of Applicant 1: Select Applicant Type:

X: Other (specify)

Type of Applicant 2: Select Applicant Type:

Q: For-Profit Organization (Other than Small Business)

Type of Applicant 3: Select Applicant Type:

* Other (specify):

Electrical Utility

* 10. Name of Federal Agency:

US Department of Commerce (DOC)

11. Catalog of Federal Domestic Assistance Number:

11.033

CFDA Title:

Middle Mile Grant Program

* 12. Funding Opportunity Number:

NTIA-MMG-2022

* Title:

Middle Mile Grant Program

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Chicago, IL

Add Attachment

Delete Attachment

View Attachment

* 15. Descriptive Title of Applicant's Project:

Chicago Middle Mile Fiber For Disadvantaged Communities

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424**16. Congressional Districts Of:**

* a. Applicant

IL-07

* b. Program/Project

IL-07

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

17. Proposed Project:

* a. Start Date:

01-01-2023

* b. End Date:

12-31-2027

18. Estimated Funding (\$):

* a. Federal

* b. Applicant

* c. State

* d. Local

* e. Other

* f. Program Income

* g. TOTAL

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**☐ a. This application was made available to the State under the Executive Order 12372 Process for review on ☒ b. Program is subject to E.O. 12372 but has not been selected by the State for review.☐ c. Program is not covered by E.O. 12372.*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**☐ Yes☒ No

If "Yes", provide explanation and attach

Add Attachment

Delete Attachment

View Attachment

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix:

Mr.

* First Name:

Middle Name:

* Last Name:

Suffix:

* Title:

* Telephone Number:

Fax Number:

* Email:

* Signature of Authorized Representative:

* Date Signed:

10-21-2022

BUDGET INFORMATION - Construction Programs

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case, you will be notified.

COST CLASSIFICATION	a. Total Cost	b. Costs Not Allowable for Participation	c. Total Allowable Costs (Columns a-b)
1. Administrative and legal expenses		\$	
2. Land, structures, rights-of-way, appraisals, etc.		\$	
3. Relocation expenses and payments		\$	
4. Architectural and engineering fees		\$	
5. Other architectural and engineering fees		\$	
6. Project inspection fees		\$	
7. Site work		\$	
8. Demolition and removal		\$	
9. Construction		\$	
10. Equipment		\$	
11. Miscellaneous		\$	
12. SUBTOTAL (sum of lines 1-11)		\$0	
13. Contingencies		\$	
14. SUBTOTAL		\$0	
15. Project (program) income		\$	
16. TOTAL PROJECT COSTS (subtract #15 from #14)		\$0	
FEDERAL FUNDING			
17. Federal assistance requested, calculate as follows: (Consult Federal agency for Federal percentage share.) Enter the resulting Federal share.	Enter eligible costs from line 16c Multiply X <u>17.48</u> %		\$

INSTRUCTIONS FOR THE SF-424C

Public reporting burden for this collection of information is estimated to average 180 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0041), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

This sheet is to be used for the following types of applications: (1) "New" (means a new [previously unfunded] assistance award); (2) "Continuation" (means funding in a succeeding budget period which stemmed from a prior agreement to fund); and (3) "Revised" (means any changes in the Federal Government's financial obligations or contingent liability from an existing obligation). If there is no change in the award amount, there is no need to complete this form. Certain Federal agencies may require only an explanatory letter to effect minor (no cost) changes. If you have questions, please contact the Federal agency.

Column a. - If this is an application for a "New" project, enter the total estimated cost of each of the items listed on lines 1 through 16 (as applicable) under "COST CLASSIFICATION."

If this application entails a change to an existing award, enter the eligible amounts *approved under the previous award* for the items under "COST CLASSIFICATION."

Column b. - If this is an application for a "New" project, enter that portion of the cost of each item in Column a. which is *not* allowable for Federal assistance. Contact the Federal agency for assistance in determining the allowability of specific costs.

If this application entails a change to an existing award, enter the adjustment [+ or (-)] to the previously approved costs (from column a.) reflected in this application.

Column. - This is the net of lines 1 through 16 in columns "a." and "b."

Line 1 - Enter estimated amounts needed to cover administrative expenses. Do not include costs which are related to the normal functions of government. Allowable legal costs are generally only those associated with the purchases of land which is allowable for Federal participation and certain services in support of construction of the project.

Line 2 - Enter estimated site and right(s)-of-way acquisition costs (this includes purchase, lease, and/or easements).

Line 3 - Enter estimated costs related to relocation advisory assistance, replacement housing, relocation payments to displaced persons and businesses, etc.

Line 4 - Enter estimated basic engineering fees related to construction (this includes start-up services and preparation of project performance work plan).

Line 5 - Enter estimated engineering costs, such as surveys, tests, soil borings, etc.

Line 6 - Enter estimated engineering inspection costs.

Line 7 - Enter estimated costs of site preparation and restoration which are not included in the basic construction contract.

Line 9 - Enter estimated cost of the construction contract.

Line 10 - Enter estimated cost of office, shop, laboratory, safety equipment, etc. to be used at the facility, if such costs are not included in the construction contract.

Line 11 - Enter estimated miscellaneous costs.

Line 12 - Total of items 1 through 11.

Line 13 - Enter estimated contingency costs. (Consult the Federal agency for the percentage of the estimated construction cost to use.)

Line 14 - Enter the total of lines 12 and 13.

Line 15 - Enter estimated program income to be earned during the grant period, e.g., salvaged materials, etc.

Line 16 - Subtract line 15 from line 14.

Line 17 - This block is for the computation of the Federal share. Multiply the total allowable project costs from line 16, column "c." by the Federal percentage share (this may be up to 100 percent; consult Federal agency for Federal percentage share) and enter the product on line 17.

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Note: Form instructions and definitions will be created to support the report. Instructional guidance and training will be developed. Numbering to be updated based on final approved form.

RECIPIENT NAME:
Commonwealth Edison Company

OMB Control No. 0550-0052
Expiration Date: 4/30/2026

Middle Mile Grant Program Bi Annual Performance Report				
I. GENERAL INFORMATION				
GENERAL	1a. Recipient Organization:	Commonwealth Edison Company	1b. Award Identification Number:	17-40-MMA554
	1c. Recipient Street Address:		1c. Report Date (MM/DD/YYYY):	10/30/2024
	1d. City, State, and Zip Code:		1e. Final Report:	Yes <input type="checkbox"/> No <input type="checkbox"/>
	1f. Unique Entity Identification (UEI) Number:		1f. Report Period Start Date (MM/DD/YYYY):	7/1/2023
	1g. Award Start Date (MM/DD/YYYY):	7/1/2023	1g. Report Period End Date (MM/DD/YYYY):	6/30/2023
	1h. Award End Date (MM/DD/YYYY):	6/30/2028		
	1i. Name of Person Completing Report:			
II. PROJECT NARRATIVE				
PROJECT NARRATIVE	Please use the section below to provide a project narrative of the project(s). This section aims to help reviewers better understand what project is being proposed and steps taken to achieve this goal.			
	2a. A brief description of the recipient's organization and scope of work/project priorities:	Commonwealth Edison (ComEd) is one of the largest electric utilities in the nation, responsible for delivering safe and reliable power to over 4 million homes & businesses across 13,400 square miles in northern Illinois, including the City of Chicago. As part of the Middle Mile (MM) Grant, ComEd will: 1) expand fiber capacity to be allocated for last mile providers, supplied indiscriminately and in perpetuity where technically feasible, and at dark fiber rates that will drive the material reduction of end user service pricing; 2) build appropriate "off-ramps" (e.g. third-party interconnection points) at key locations along these routes for last-mile providers to more easily interconnect into ComEd's middle-mile infrastructure without interfering with ComEd's electric operations.		
	2b. An overview of the significant outputs and outcomes to be accomplished in the project:	By maximizing deployment efficiency and leveraging its planned utility fiber deployment, ComEd will be bringing new available low-cost MM infrastructure into 24 communities in need, representing over 480,000 households.		
	2c. How would the project meet the recipient's business and/or administrative need(s)?	ComEd needs an extremely reliable, low-latency & secure communication systems to run its highly reliable and resilient electric grid. The system physically touches every residence and business in its service territory. ComEd will be enhancing its communication systems to meet current and future systems needs due to the increased penetration of distributed energy resources, electric vehicle		
	2d. Provide an overview of key accomplishments achieved for this reporting period on the MM infrastructure project.	During the reporting period, ComEd accepted the award, established processes and identified grant management roles. ComEd also started the environmental assessment that is required prior to the start of construction.		
	2e. Provide any notable experiences during this reporting period impacting the expansion of the MM infrastructure project (i.e., supply chain, availability of labor).	No issues exist within ComEd's Supply Chain Risk Report. No issues exist within ComEd's Contractor Resource Report.		
2f. Provide any barriers to improving job quality experienced during this reporting period.	None for this reporting period.			

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C. INFRASTRUCTURE MILESTONE CATEGORIES AND PROJECT TIMELINE	Please use the chart below to provide the start date and end date of your project.														
	OVERALL PROJECT		PROJECT DURATION	% PROJECT START DATE	% PROJECT END DATE										
			3626	July 1, 2023	June 30, 2028										
	Please provide the duration for each milestone category of your project. The duration should be based on the start and end dates of each category. For example, if you expect to complete a particular milestone within two weeks, 10 in the total days (14) in the duration field.														
	Please use the table provided to indicate your EXPECTED percentage of completion on a bi-annual basis for each year of your project. Year 1 begins with your award start date.														
	The percentage of completion should be based primarily on the expenditure of your project budget and should be reported cumulatively from award inception through the end of each semi-annual reporting period. For example, if you expect to complete a particular milestone within the first three periods of your project, the third period and all subsequent periods should state 100%.														
	Please write "0" in the duration field if your project does not include an activity. If necessary, please insert additional milestones at the end.														
	ANTICIPATED PROJECT MILESTONES														
			% DURATION (Days)	% START DATE	% END DATE	Year 1 Baseline		Year 2 Baseline		Year 3 Baseline		Year 4 Baseline		Year 5 Baseline	
						Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2
					7/1/2023	6/30/2023	6/30/2023	6/30/2024	6/30/2024	6/30/2024	6/30/2025	6/30/2025	6/30/2025	6/30/2026	
Overall Project		3626	July 1, 2023	June 30, 2028											
Environmental Assessment		10	September 26, 2023	December 13, 2023											
Network Design		1400	July 1, 2023	June 30, 2023											
Right of Way		1400	July 1, 2023	June 30, 2023											
Construction Permits And Other Approvals		1400	July 1, 2023	June 30, 2023											
Site Preparation		1700	July 1, 2023	October 30, 2023											
Equipment Procurement		1400	July 1, 2023	June 30, 2023											
Network Build (all components - owned, leased, subleasehold rights of use, etc.)		1400	July 1, 2023	June 30, 2023											
Equipment Deployment		1400	January 1, 2024	June 30, 2024											
Network Testing		1400	January 1, 2024	June 30, 2024											
Status of Procurement (other please specify)		1400	January 1, 2024	June 30, 2024											
D. PROJECT COMPLETION	Please use the table provided to indicate your ACTUAL percentage of completion on a bi-annual basis for each year of your project. Year 1 begins with your award start date.														
	The percentage of completion should be based primarily on the expenditure of your project budget and should be reported cumulatively from award inception through the end of each semi-annual reporting period. For example, if you expect to complete a particular milestone within the first three periods of your project, the third period and all subsequent periods should state 100%.														
	Please provide a brief description of the primary activities involved in meeting each milestone (a single description should be provided for each milestone, covering all periods in years one through 5). Please write "N/A" if your project does not include an activity. If necessary, please insert additional milestones at the bottom of the chart. Please add additional milestones as applicable.														
	ACTUAL PROJECT MILESTONES				Year 1		Year 2		Year 3		Year 4		Year 5		
					Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	
					Actual Milestone Completion (Cumulative)										
	6b. MILESTONE		6b. DESCRIPTION												
	Overall Project		Engineering and construction of Middle Mile Fiber (owner and leased)		100										
	Environmental Assessment		Completion of the NEPA analysis		100										
	Network Design		Network Engineer Review and Approves Engineering Package (EP Data)		100										
Right of Way		Completing Easement Acquisitions and Rights of Way Agreements (EP Data)		100											
Construction Permits And Other Approvals		Securing Construction Permits (EP Data)		100											
Site Preparation		Equipment or Construction Site Preparation (Single Month Completion Date)		100											
Equipment Procurement		Submit Material Order Inquiries for Fiber, Cables, and Other Hardware (EP Data)		100											
Network Build (all components - owned, leased, subleasehold rights of use, etc.)		Construction of Middle Mile Fiber (2024 Completion Date)		100											
Equipment Deployment		Completion of Engineering Package (EP Data)		100											
Network Testing		Testing of Middle Mile Fiber (2024 Completion Date)		100											
Status of Procurement		All Materials and Services Received for Fiber Construction (2024 Completion Date)		100											
Other (please specify): Project Process and Definitions		1. Issue for Construction (PC) - Engineering Design Package Reviewed and approved													
2. Issue Ready - Preparing Sites for Fiber Installation		2. Fiber Completion - Fiber Installed and Tested													

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Subrecipient and Comments	List of subrecipient(s) that received a subaward or subgrant from the eligible entity and a description of the specific project for which grant funds were provided.										
	Associate projects names to any subrecipient or subaward associated with grant, approved grant funds, and expenditures to date.										
	7a. Project Name	7b. Project Description	7c. Subrecipient	7d. Minority Business Enterprise (MBE)	7e. Women's Business Enterprise (WBE)	7f. Labor Surplus Area Firm	7g. Awarded Funds	7h. Expenditures to Date	7i. Remaining Grant Balance	7j. % of work complete	
	N/A	N/A	N/A	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	N/A	N/A	N/A	N/A	
				Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>					
				Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>					
D. INFRASTRUCTURE BUDGET EXECUTION DETAILS											
Please provide details below on your total budget and total fund expended to date for each budget element, including detailed disbursements of both matching funds approved and federal funds obligated from project inception through end of this reporting period. Figures should be reported cumulatively from award inception to the end of the applicable reporting period.											
INFRASTRUCTURE BUDGET EXECUTION DETAILS	8a. Project Budget Element	8b. Federal Funds	8c. Non-Federal Funds	8d. Total Project Budget	8e. Total Federal Funds Expended to Date	8f. Total Non-Federal Funds Expended to Date	8g. Total Funds Expended	8h. Percent of Federal Funding Expended to Date (Cumulative)			
	Administration and legal expenses										
	Land, structures, right-of-way, appraisals, etc.										
	Relocation expenses and payments										
	Architectural and engineering fees										
	Other architectural and engineering fees										
	Project inspection fees										
	Sign work										
	Demolition and removal										
	Construction										
	Equipment										
	Manufactures										
	Software										
	Contingencies										
Totals											
E. COMMUNITY BENEFIT AGREEMENT											
COMMUNITY BENEFIT AGREEMENT	As stated in the MMA Grant Program NCPD a Community Benefit Agreement (CBA) is an agreement signed by community benefit groups and a developer, identifying the community benefits a developer agrees to deliver, in return for community support of the project.										
	Please use the fields below to state the Community Benefit Group and Developer Name and describe the activities in how this partnership has supported with the Middle Mile infrastructure project (i.e. wage agreements, targeting hiring of apprentices and disadvantaged groups in labor market, education and training opportunities, sub-contracting to local small business for construction, services, and supply chain needs).										
	Recapitulation of Community Agreement										
	7a. Community Benefit Group Name: Please provide the name of the Community Benefit Group										
	7b. Developer Name: Please provide the name of the Developer										
	7c. Community Benefit Group and Developer Partnership: Please describe in the space below the nature of the partnership and how the MME grant funds being used are assisting to provide community support for the infrastructure project.										

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F. CLIMATE RESILIENCE											
<p>Requestors must demonstrate that they have sufficiently accounted for current and future weather and climate related risks to new teleinfrastructure projects. At present, weather and climate related risks to broadband networks include wildfires, extreme heat and cold, inland and coastal flooding, and the extreme winds produced by weather events such as tornadoes, hurricanes, and other weather events. Because retrofitted and new infrastructure for broadband might be expected to have a lifetime of 20 years or more, requestors must account not only for current risks but also for how the frequency, severity, and nature of these extreme events may plausibly evolve as our climate continues to change over the coming decades.</p> <p>Resilience Assessment Acknowledgments</p> <p>The purpose of this section is for the requestor to demonstrate that they have sufficiently accounted for current and future weather and climate-related risks to new teleinfrastructure projects. In particular, each requestor should demonstrate how they've addressed the known and identifiable risks of current and future projected weather and climate conditions through measures such as (but not limited to) choice of a technology platform suitable to the climate risk of the region, reliance on alternatives siting of facilities (i.e., underground conduits where appropriate), retrofitting, or hardening of existing assets, and use of network redundancy to safeguard against threats to infrastructure.</p> <p>6f. Were any geographic areas identified for this reporting period subject to an initial and/or updated hazard screening for future weather and climate related risk? If so, please provide the date of the screening, and provide related documentation as an attachment to this report.</p> <p>NTIA has created a report for Cook County indicating that the national climate resilience category is "Very High".</p> <table><tr><th>6f. Climate Resilience Category</th><th>6f. Date of Most Recent Hazard Screening</th><th>6f. Name and Title of Representative Completing Most Recent Hazard Screening</th><th>6f. Date of Report Completion</th></tr><tr><td>Very High</td><td>N/A</td><td>N/A</td><td></td></tr></table> <p>6g. Identified Risk: For your MM project, what are the potential weather and climate hazards that may be most important to be addressed that could impact the resiliency of the middle mile infrastructure deployed (i.e., wildfires, extreme heat and cold, inland and coastal flooding, extreme winds, tornadoes, hurricanes and other weather events)?</p> <p></p> <p>6h. Weather and Climate Hazards: Were any significant climate or weather hazards experienced during this reporting period (i.e., floods, tornadoes) impacting infrastructure buildout or service? Briefly describe how you monitored for weather and climate caused issues for the reliability of the system. If so, please provide the date of the disaster, location and backup documentation related (i.e., news articles).</p> <p>No</p> <p>6i. Risk to Deployment of New Infrastructure: Has the team identified any risks impacting the deployment of new or repaired infrastructure due to current and future weather and climate-related threats during this reporting period?</p> <p>No</p> <p>6j. Risk Mitigation: How will the project avoid and/or mitigate the risk identified? If not applicable, please explain why.</p> <p></p> <p>6k. Additional Information: Is there any additional information you would like to share during this reporting period that the grant team should be aware of regarding the management of sustainable climate resiliency for your MM project?</p> <p>None</p> <p>6l. Additional Resources: Has the team utilized the available resources to assist with mitigation and long-term planning efforts for this reporting period? If so, which resources? 2024 National Climate Assessment NOAA's 2022 State Climate Summaries NOAA Disaster and Risk Mapping Tool NOAA's Storms Event Database NOAA Climate Explorer and Digital Coast FEMA National Risk Index Consulted FEMA-approved Hazard Mitigation Plans prepared by states in which they propose to build middle mile infrastructure to help identify key risk and hazards</p> <p>The Team has used the FEMA National Risk Index to determine the climate resilience category.</p>				6f. Climate Resilience Category	6f. Date of Most Recent Hazard Screening	6f. Name and Title of Representative Completing Most Recent Hazard Screening	6f. Date of Report Completion	Very High	N/A	N/A	
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C. Workforce																																																																																																																																																																					
DEBIS-BACON ACT CERTIFICATION	For projects receiving over \$5,000,000 (based on expected total cost), as determined by the U.S. Secretary of Labor by subchapter IV of chapter 31 of title 40, United States Code (commonly known as the "Davis-Bacon Act"), all laborers and mechanics employed by contractors and subcontractors in the performance of each project are paid wages at rates not less than those prevailing.																																																																																																																																																																				
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	Local hiring is a goal or requirement for hire people who live close to the place of work. This also is often more specifically discussed as a requirement for contractors awarded on bids types of publicly funded projects to recruit a certain proportion of the people working on the project from a particular area. Please provide all direct hires and contractors supporting the bid information project.																																																																																																																																																																				
	Please use the table below to describe how the project prioritizes local hiring.																																																																																																																																																																				
	Hires by Race, Ethnicity and Gender	<div>Number of Hires</div> <div>Race/Ethnicity</div> <table border="1"> <thead> <tr> <th colspan="3">9b. Hispanic or Latino</th> <th colspan="6">9c-1. Men</th> <th colspan="6">9c-2. Women</th> <th rowspan="3">Totals</th> </tr> <tr> <th colspan="3"></th> <th colspan="3">9c-1.1. White</th> <th colspan="3">9c-1.2. Black or African American</th> <th colspan="3">9c-1.3. Native Hawaiian or Pacific Islander</th> <th colspan="3">9c-1.4. Asian</th> </tr> <tr> <th>9b-1. Men</th> <th>9b-2. Women</th> <th>9b-3. X</th> <th>White</th> <th>Black or African American</th> <th>Native Hawaiian or Pacific Islander</th> <th>Asian</th> <th>Native American or Alaska Native</th> <th>Two or More Races</th> <th>White</th> <th>Black or African American</th> <th>Native Hawaiian or Pacific Islander</th> <th>Asian</th> <th>Native American or Alaska Native</th> <th>Two or More Races</th> </tr> </thead> <tbody> <tr> <td>Number of Local Direct Hires</td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>1</td> </tr> <tr> <td>Number of Non-Local Direct Hires</td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>0</td> </tr> <tr> <td>Percentage of Local Direct Hires on Award</td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>65</td> </tr> <tr> <td>Number of Local Subcontractors</td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>12</td> </tr> <tr> <td>Number of Non-Local Subcontractors</td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> <tr> <td>Percentage of Local Subcontractors on Award</td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> </tr> </tbody> </table>																9b. Hispanic or Latino			9c-1. Men						9c-2. Women						Totals				9c-1.1. White			9c-1.2. Black or African American			9c-1.3. Native Hawaiian or Pacific Islander			9c-1.4. Asian			9b-1. Men	9b-2. Women	9b-3. X	White	Black or African American	Native Hawaiian or Pacific Islander	Asian	Native American or Alaska Native	Two or More Races	White	Black or African American	Native Hawaiian or Pacific Islander	Asian	Native American or Alaska Native	Two or More Races	Number of Local Direct Hires																1	Number of Non-Local Direct Hires																0	Percentage of Local Direct Hires on Award																65	Number of Local Subcontractors																12	Number of Non-Local Subcontractors																	Percentage of Local Subcontractors on Award																
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	10d. Please cite your source of how this information was gathered (for 10c).																																																																																																																																																																				
10e. If you answered "Yes" to either 10a or 10c, please provide an attachment reporting the wages and benefits of workers on the project by job classification, and whether those wages are less than the prevailing wage.																																																																																																																																																																					
WORKFORCE DEMOGRAPHICS	Workforce Demographic Data																																																																																																																																																																				
	Hires by Race, Ethnicity and Gender	<div>Number of Hires</div> <div>Race/Ethnicity</div> <table border="1"> <thead> <tr> <th colspan="3">11-a. Hispanic or Latino</th> <th colspan="6">11b-1. Men</th> <th colspan="6">11b-2. Women</th> <th rowspan="3">Totals</th> </tr> <tr> <th colspan="3"></th> <th colspan="3">11b-1.1. White</th> <th colspan="3">11b-1.2. Black or African American</th> <th colspan="3">11b-1.3. Native Hawaiian or Pacific Islander</th> <th colspan="3">11b-1.4. Asian</th> </tr> <tr> <th>11a-1. Men</th> <th>11a-2. Women</th> <th>11a-3. X</th> <th>White</th> <th>Black or African American</th> <th>Native Hawaiian or Pacific Islander</th> <th>Asian</th> <th>Native American or Alaska Native</th> <th>Two or More Races</th> <th>White</th> <th>Black or African American</th> <th>Native Hawaiian or Pacific Islander</th> <th>Asian</th> <th>Native American or Alaska Native</th> <th>Two or More Races</th> </tr> </thead> <tbody> <tr> <td>11b-1.1. White</td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>0</td> </tr> <tr> <td>11b-1.2. Black or African American</td> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>1</td> </tr> </tbody> </table>																11-a. Hispanic or Latino			11b-1. Men						11b-2. Women						Totals				11b-1.1. White			11b-1.2. Black or African American			11b-1.3. Native Hawaiian or Pacific Islander			11b-1.4. Asian			11a-1. Men	11a-2. Women	11a-3. X	White	Black or African American	Native Hawaiian or Pacific Islander	Asian	Native American or Alaska Native	Two or More Races	White	Black or African American	Native Hawaiian or Pacific Islander	Asian	Native American or Alaska Native	Two or More Races	11b-1.1. White																0	11b-1.2. Black or African American																1																																																																				
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12-a. Does this project include some workforce elements that are unionized?																																																																																																																																																																					
12-c. Does your MMA project utilize a project labor agreement?																																																																																																																																																																					
12-b. Are workers provided access to union educators/organizers on employer property or during the work day?																																																																																																																																																																					
12-d. Did workers receive additional information or training about their workplace rights in addition to already required notice postings?																																																																																																																																																																					

Workforce Continuity Plan

For your MMS project, please provide a brief description of efforts made to attract, train or retain a skilled and credentialed workforce.

<p> In-house Training Registered Apprenticeships Labor-Market-Oriented Certification </p>

35c. Please describe below the steps to ensure a safe and healthy workplace that avoids delays and costs associated with workplace illnesses, injuries, and fatalities.

CONVULSIONES Y EPILEPSIA

WORKING	
AT 2014	

[illegible]

13e. Please provide the name(s) below of any subcontracted entities performing work on the project, and the total number of workers employed by each entity.	
--	--

156-1. Name of Subcontracted Entity Performing Work	156-2. Total Number of Workers within this Subcontract	156-3. Job Categories of Workers Supporting Project within this Subcontract

		3	Environmental Contractor
		6	Environmental Contractor
		6	Environmental Contractor

[illegible]

Please provide Anchor Institution (AI) data for the current period only (not cumulative). Please add rows as needed.

14a. Anchor Institution Name	14b. Street Address	14c. City	14d. State	14e. Type of Anchor Institution	14f. Intersection with 1,000 feet of all enabling grant funding	14g. Narrative Description of how the Anchor Institution may benefit from the Grant Funded Infrastructure
---------------------------------	------------------------	--------------	---------------	------------------------------------	--	--

45	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A

National Telecommunications and Information Administration (NTIA)
Middle Mile Grant Program
Bi-Annual Performance Report

J. BROADBAND ACCESS KEY INDICATOR: SUBSCRIBERS AND SPEED																						
PROJECTED NUMBERS OF SUBSCRIBERS AND SPEED	Please use the following table to provide anticipated key indicators with the projected totals for each beneficiary category, access type and speed category for your infrastructure service or project. Except as indicated, information should be reported cumulatively from award inception through the end of the semi-annual period for Semi-Annual indicators. Please write "N/A" if your project does not include this indicator.																					
	SUBSCRIBER TYPE	ACCESS TYPE	Year 1		Year 2		Year 3		Year 4		Year 5											
			Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2										
	23a. Anchor institutions (An)	23a-1. Total number of An served																				
		23a-2. Number of An within 1,000 feet of the middle mile infrastructure																				
		23a-3. Total number of An served																				
		23a-4. An with new access																				
		23a-5. An with improved access																				
	23b. Broadband Wholesalers or Last Mile Providers	23b-1. Total number of An served with speeds of at least 1/10Gbps																				
		23b-2. Total number of broadband wholesalers or last mile providers served																				
		23b-3. Broadband wholesalers or last mile providers with new access																				
		23b-4. Broadband wholesalers or last mile providers with improved access																				
		23b-5. Total number of broadband wholesalers or last mile providers offering speeds of at least 1/10Gbps																				
		23b-6. Total number of broadband wholesalers or last mile providers offering speeds of at least 1/10Gbps																				
		23b-7. Total number of broadband wholesalers or last mile providers offering speeds of at least 1/10Gbps																				
23b-8. Total number of broadband wholesalers or last mile providers offering speeds of at least 1/10Gbps																						
23b-9. Total number of broadband wholesalers or last mile providers offering speeds of at least 1/10Gbps																						
K. BROADBAND ACCESS KEY INDICATOR: NETWORK BUILD PROGRESS																						
NETWORK BUILD PROGRESS	Please use the following table to provide anticipated key indicators and progress of your infrastructure project. Except as indicated, information should be reported cumulatively from award inception through the end of the semi-annual period. Please write "N/A" if your project does not include this indicator.																					
	KEY INDICATOR	Year 1		Year 2		Year 3		Year 4		Year 5												
		Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2											
	24a. Total of new fiber miles (partial or buried)																					
	24b. Total of fiber miles leased																					
	24c. Total of existing fiber miles upgraded																					
	24d. Total of new microwave links																					
	24e. Total of new towers																					
	24f. Total of new interconnection points																					
	24g. Total of signed agreements with broadband wholesalers or last mile providers																					
	24h. Total of potential agreements (i.e., agreements currently being negotiated) with broadband wholesalers or last mile providers (This Total should NOT be reported cumulatively)																					
	L. QUANTIFIABLE METRICS																					
	Quantifiable Metrics - Section designed to assist with reporting and enable progress to quantify how much progress was made and track the location of where the progress was made.																					
	FIBER OPTIC BASED	17a. Fiber Optic Based	Year 1		Year 2		Year 3		Year 4		Year 5											
			Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2										
17a-1. Is the fiber a buried/aerial or underwater application?																						
17a-2. Number of strands deployed																						
17a-3. Number of miles of buried fiber deployed																						
17a-4. Number of miles of aerial fiber deployed																						
17a-5. Estimated capacity of fiber (in throughput)																						
17a-6. Deployment cost per mile of buried fiber optics																						
17a-7. Deployment cost per mile of aerial fiber optics																						
17a-8. Total spent on Buried Fiber Deployment this reporting period																						
17a-9. Total spent on Aerial Fiber Deployment this reporting period																						
17a-10. Total spent on Fiber Deployment this reporting period																						
17a-11. Please provide any additional information about the fiber optic deployment (200 words or less)																						
17a-12. Please provide the digital mappings (e.g., CAD, Navit, KML, KMZ) for the microwave nodes created during this reporting period.																						

National Telecommunications and Information Administration (NTIA)
Middle Mile Grant Program
Bi-Annual Performance Report

		Year 1		Year 2		Year 3		Year 4		Year 5		
		Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	Period 1	Period 2	
MICROWAVE BASED	17b. Microwave Based											
	17b-1. How many microwave nodes have been deployed?											
	17b-2. How many microwave nodes are operating for reporting period?											
	17b-3. Installation cost per microwave node											
	17b-4. Number of new towers built to support microwave structure											
	17b-5. If applicable, what type of tower was constructed: (a) Monopole (b) Self support, or (c) Guyed during this reporting period?											
	17b-6. Average cost per tower installed											
	17b-7. Total spend on tower deployment this reporting period											
	17b-8. Total spend on microwave deployment this reporting period											
	17b-9. If you answered "other" to question 1a.e or if it is a combination of multiple types, please provide a detailed narrative description detailing what type of tower or what combination of towers is used for the project and the their associated costs. (200 words or less)											
17b-10. Please provide the digital mappings (e.g., CAD, Invent, BIM, etc.) for each new aerial fiber and buried fiber equipment installed during this reporting period.												
SATELLITE	17c. Satellite											
	17c-1. What satellite provider is being used?											
	17c-2. What is the estimated capacity of the satellite link (in throughput)?											
	17c-3. What is the associated cost to use this satellite service?											
	17c-4. Please provide any additional information about the satellite deployment (200 words or less)											
17c-5. Please provide the digital mappings (e.g., CAD, Invent, BIM, etc.) for each new aerial fiber and buried fiber equipment installed during this reporting period.												
CERTIFICATIONS	18. Please provide certification evidencing compliance with federal labor and employment laws along with the requirements of infrastructure investment and jobs act and Middle Mile Grant Program, for the bi-annual period for which this report is being filed. Certifications _____ _____ _____											
	19. Please provide certification evidencing compliance with the Build America, Buy America Act. The Build America, Buy America Act requires that all of the iron, steel, manufactured products (including but not limited to fiber-optic communications facilities), and construction materials used in the project or other eligible activities are produced in the United States unless a waiver is granted. _____ _____											
	20. I certify to the best of knowledge and belief that this report is correct and complete for performance of activities for the purposes set forth in the award documents. 20a. Typed or Printed Name and Title of Authorized Certifying Official: _____ 20b. Signature of Certifying Official: _____											
BUDGET FUNDING INFORMATION						20c. Telephone (area code, number and extension):						
						20d. Email Address:						
						20e. Date:		10/27/2023				

MMG Budget Narrative Template

Applicant Name: Commonwealth Edison Company

Applicant Type: Investor-Owned Utility

Proposed Period of Performance: January 2023 – December 2027

Total Project Costs: [REDACTED]

Total Federal Grant Request: [REDACTED]

Total Matching Funds (Cash): [REDACTED]

Total Matching Funds (In-Kind): [REDACTED]

Total Matching Funds (Cash + In-Kind): [REDACTED]

Total Matching Funds (Cash + In-Kind) as Percentage of Total Project Costs: [REDACTED]

IMPORTANT NOTE REGARDING BUDGET & PROJECT COSTS

This Project is uniquely structured given ComEd's primary role as a regulated electric utility. ComEd is offering significant cost & time efficiencies to getting available middle-mile infrastructure into areas of need in this Project [REDACTED]

[REDACTED]

[REDACTED]

1. Commitment to Adoption of Fiscally Sustainable Middle-mile Strategies

ComEd commits to adopting fiscally sustainable middle-mile strategies. [REDACTED]

[REDACTED]

[REDACTED]

2. Administrative and Legal expenses

Description	Unit Type	Unit Cost	No. of Units	Total Cost
Project Manager	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Network Engineer				
Network Planner				
Exelon Strategy (GIS Analyst)				
Construction Manager				
Consulting Services, Grant Application Support				
Program Management Office (NTIA grant metric tracking, reporting and delivery oversight)				

[REDACTED] per hour to provide overall project management of the fiber project. The project manager will be responsible for all aspects of fiber deployment including working with contractors, engineers, strategy, and finance to ensure the project is on time and budget.

[REDACTED] hour to conduct fiber optic detailed network design for the middle mile network. The Network Engineer will provide an in-depth understanding of current fiber optic

design standards and industry processes. The Network Engineer will lead the installation and maintenance of the fiber network and be able to troubleshoot any problems.

[REDACTED] hour to plan and allocate fibers for splicing and activation. Provides oversight for construction builds, repairs, and inspection of the fiber network. The Network Planner will design the overall fiber layout, document splicing and enclosures, establish/maintain standards, and provide system support including training, testing, outage support, and technical issue resolution.

[REDACTED] per hour to provide GIS infrastructure tracking and reporting for the fiber project. GIS Analyst will use existing legacy documentation to create and document fiber paths in a variety of mapping software platforms. Will provide updates to existing GIS databases utilizing As-Built drawings and electronic data sources. In addition, will coordinate outreach with ISP partners and anchor institutions.

[REDACTED] per hour to provide oversight, quality control and inspection of fiber construction activities. The Construction Manager will be a ComEd employee who will be at the job sites working directly with contractors to ensure utility construction and safety standards are met.

[REDACTED] on expenses
This includes
NTIA NOFO review, communication to ComEd of relevant NTIA NOFO updates and requirements, grant narrative development, project scoping, and final grant QA reviews.

[REDACTED]
to support establishment of an overall Program Management Office (PMO) that will oversee mandatory grant management activities such as completing reports, responding to audit requirements, conducting budgetary activities, and other activities as required by the grantor. These activities are necessary to meet the reporting and compliance requirements of the grant program. The PMO will additionally serve as in-between to manage ComEd operational fiber project deployment requirements and grant project deployment requirements, ensuring ComEd meets its obligations both as a utility and as a grant recipient, monitoring scope, schedule, and budget over the 5-year period.

3. Land, structures, rights-of-way, appraisals, etc.

Description	Unit Type	Unit Cost	No. of Units	Total Cost
Real Estate Research Easements	[REDACTED]			
Real Estate Research RR (4 hours per RRX)				
CTA				

[REDACTED] Title review will be performed on several properties along the proposed installation routes to ascertain the right of ComEd to place communication infrastructure. Research will include capturing all conveyance information (i.e., Grantor, fee or easement grant, tax map and parcel information, recording references, property accessibility, damage allowances, and any additional important considerations provided at the time the property line was constructed. Also, in the cases of the grants being easements, listing of current property owners to re-negotiate easement (if required). Estimate is based on past ComEd Real Estate Title Review experience.

[REDACTED]
Grantor, fee or easement grant, tax map and parcel information, recording references, property accessibility, damage allowances, and any additional important considerations provided at the time the property line was constructed. Also, in the cases of the grants being easements, listing of current property owners to re-negotiate easement (if required).

[REDACTED]
Rights-of-way must be obtained to cross-under the rail roads and special application fees for these sites apply. Pricing is estimated per railroad [REDACTED] per crossing and is based on existing agreements with the ComEd Railroad coordinators data.

4. Relocation expenses and payments

N/A

5. Architectural and engineering fees

Description	Unit Type	Unit Cost	No. of Units	Total Cost
Route Engineering and Design	Mile	[REDACTED]		
Utility Network Interconnection Site	Item			
Environmental Engineering	Item			

[REDACTED]
[REDACTED] The design and engineering firm will draft a full design package including utility topography survey, Maintenance of Traffic Plan, Sediment and Erosion Plan, secure all permits excluding railroad fees, submit material requests, conduct/attend project meetings, develop construction specifications and standards, perform civil, engineering, and soil boring investigations, GIS mapping, and other relevant tasks (as required). The design and engineering package will be used by the Contractor of Choice to construct the fiber infrastructure. The costs are estimated based on industry standards and previous experience with contractors for the area.

[REDACTED] There will be several locations where a lateral will be needed to be constructed to help facilitate direct interconnect facilities that will facilitate the provision of broadband service to anchor institutions. The design and engineering firm will draft a full design package including utility topography, secure all permits, submit material requests, conduct/attend project meetings, develop construction specifications and standards, perform civil, engineering, and soil boring investigations, GIS mapping, and other relevant tasks (as required). The design and engineering package will be used by the Contractor of Choice to construct the fiber infrastructure. The costs are estimated based on industry standards and previous experience with contractors for the area.

[REDACTED] needing wetland delineations. Locations along the proposed route where an environmental study will be required to obtain a permit. The environmental engineering firm will draft a full environmental report which will be used for permitting or other needs (as required). The costs are estimated based on industry standards and previous experience with environmental contractors for the area.

6. Other architectural and engineering fees

N/A

7. Project Inspection fees

N/A

8. Site work

N/A

8. Demolition and removal

N/A

9. Construction

Description	Unit Basis	Unit Cost	Number of Units	Total Cost
Trenching	Foot	[REDACTED]	[REDACTED]	[REDACTED]
Underground Fiber Installation	Foot			
Splicing	Item			
Overhead Make Ready for fiber placement construction	Foot			
Overhead Fiber placements	Foot			

[REDACTED]
The estimated amount of trenching is based on an engineering review of the right-of-way route

providing a percentage estimate of trench, standard bore, and rock boring. Prices are estimated from previous local vendor quotes and jobs within the City of Chicago.

feet of fiber installation. The estimate is based on blowing count fiber bundle throughout miles of existing and new conduit. An additional count fiber bundle will also be blown into miles of conduit. Prices are estimated from previous local vendor quotes and jobs within the City of Chicago.

Prices estimates are from a local vendor quote.

Charge is estimated at feet. Prices are estimated from previous local vendor quotes and jobs within the City of Chicago.

Prices are estimated from previous local vendor quotes and jobs within the City of Chicago.

10. Equipment

N/A

11. Miscellaneous

Description	Unit Basis	Unit Cost	Number of Units	Total Cost
HDPE Materials and interconnections existing MH's	Foot			
HH and SIP	Foot			
Strategic Interconnection (on Handholes)	Item			
Fiber Hardware	Foot			
Fiber Cable	Foot			

systems. Price is based on estimated material costs from previous projects.

feet of new conduit/manhole systems. Price is based on estimated material costs from previous projects.

mile infrastructure without disturbing or needing to interact with ComEd electrical infrastructure.

[REDACTED] Price is based on estimated material costs from previous projects.

[REDACTED] Price is based on estimated material costs from previous projects.

12. SUBTOTAL (sum of lines 1-11)

[REDACTED]

13. Contingencies

ComEd will include a 10% contingency on the estimated spend of capital for the project.

[REDACTED]

14. SUBTOTAL

[REDACTED]

15. Project (program) income

[REDACTED]

16. TOTAL PROJECT COSTS

[REDACTED]

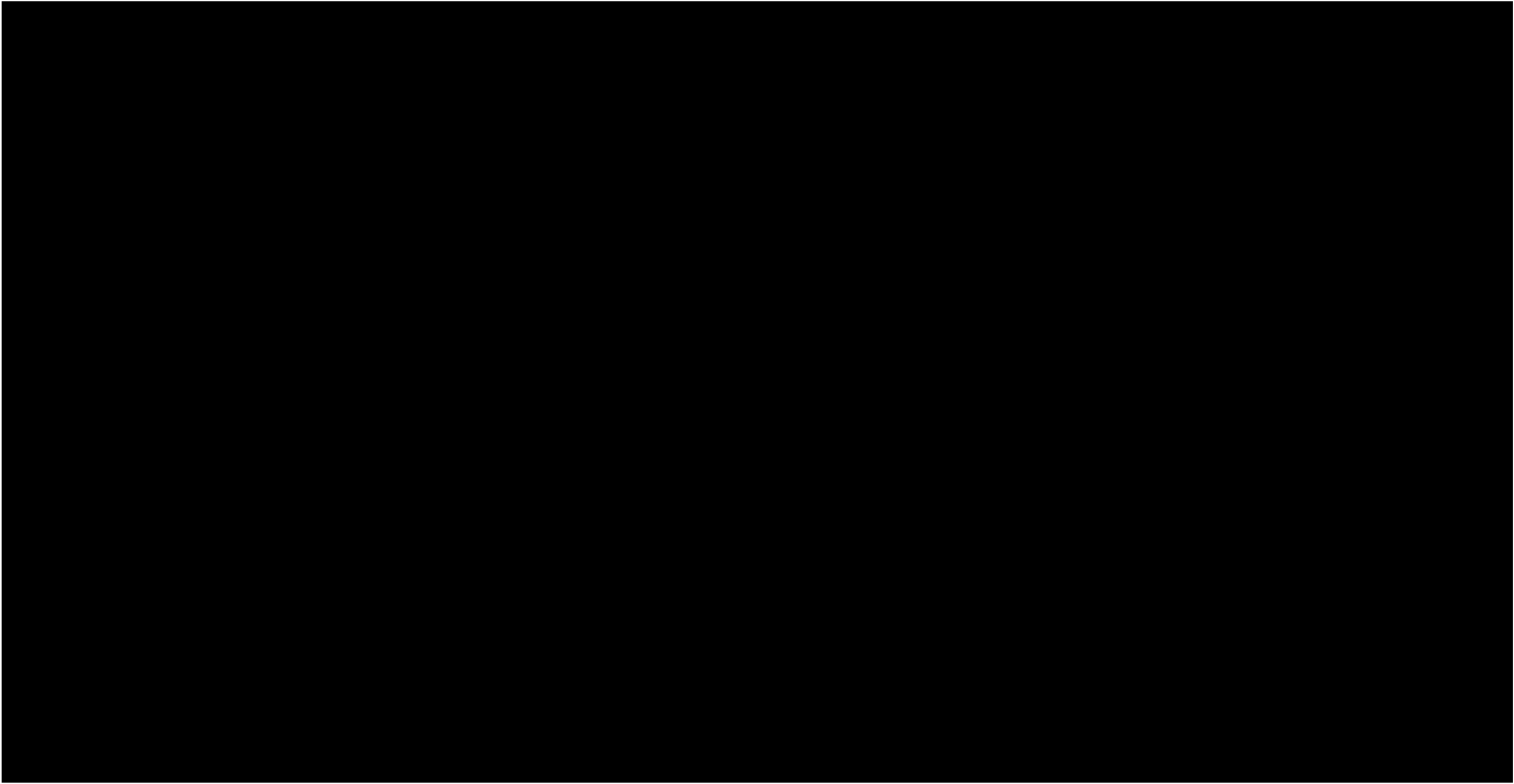


September 30, 2022

2.8 Network Logical Diagram ComEd Fiber Expansion Chicago

All information contained in this document is privileged, confidential, commercial or financial information

ComEd Typical Network Logical Diagram- Example N. Lawndale (Chicago)



ComEd Typical Interconnection Points/Handholes – Chicago





comedSM

AN EXELON COMPANY

Federal Financial Report

(Follow form Instructions)

1. Federal Agency and Organizational Element to Which Report is Submitted <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">National Telecommunications and Information Administration</div>		2. Federal Grant or Other Identifying Number Assigned by Federal Agency (To report multiple grants, use FFR Attachment) <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">17-40-MM554</div>			
3. Recipient Organization (Name and complete address including Zip code) Recipient Organization Name: <div style="border: 1px solid black; padding: 2px; display: inline-block;">Commonwealth Edison Company</div> Street1: <div style="border: 1px solid black; padding: 2px; display: inline-block;"></div> Street2: <div style="border: 1px solid black; padding: 2px; display: inline-block;"></div> City: <div style="border: 1px solid black; padding: 2px; display: inline-block;"></div> County: <div style="border: 1px solid black; padding: 2px; display: inline-block;"></div> State: <div style="border: 1px solid black; padding: 2px; display: inline-block;"></div> Province: <div style="border: 1px solid black; padding: 2px; display: inline-block;"></div> Country: <div style="border: 1px solid black; padding: 2px; display: inline-block;"></div> ZIP / Postal Code: <div style="border: 1px solid black; padding: 2px; display: inline-block;">60603</div>					
4a. UEI <div style="border: 1px solid black; padding: 2px; display: inline-block;"></div>		4b. EIN <div style="border: 1px solid black; padding: 2px; display: inline-block;"></div>		5. Recipient Account Number or Identifying Number (To report multiple grants, use FFR Attachment) <div style="border: 1px solid black; padding: 2px; display: inline-block;"></div>	
6. Report Type <input type="checkbox"/> Quarterly <input checked="" type="checkbox"/> Semi-Annual <input type="checkbox"/> Annual <input type="checkbox"/> Final		7. Basis of Accounting <input type="checkbox"/> Cash <input checked="" type="checkbox"/> Accrual		8. Project/Grant Period From: <div style="border: 1px solid black; padding: 2px; display: inline-block;">7/1/23</div> To: <div style="border: 1px solid black; padding: 2px; display: inline-block;">6/30/28</div>	
9. Reporting Period End Date <div style="border: 1px solid black; padding: 2px; display: inline-block;">03/31/2024</div>					
10. Transactions					Cumulative
(Use lines a-c for single or multiple grant reporting)					
Federal Cash (To report multiple grants, also use FFR attachment):					
a. Cash Receipts					
b. Cash Disbursements					
c. Cash on Hand (line a minus b)					
(Use lines d-o for single grant reporting)					
Federal Expenditures and Unobligated Balance:					
d. Total Federal funds authorized					
e. Federal share of expenditures					
f. Federal share of unliquidated obligations					
g. Total Federal share (sum of lines e and f)					
h. Unobligated balance of Federal Funds (line d minus g)					
Recipient Share:					
i. Total recipient share required					
j. Recipient share of expenditures					
k. Remaining recipient share to be provided (line i minus j)					
Program Income:					
l. Total Federal program income earned					
m. Program Income expended in accordance with the deduction alternative					
n. Program Income expended in accordance with the addition alternative					
o. Unexpended program income (line l minus line m or line n)					

11. Indirect Expense						
a. Type	b. Rate	c. Period From	Period To	d. Base	e. Amount Charged	f. Federal Share
g. Totals:				0.00	0.00	0.00
12. Remarks: Attach any explanations deemed necessary or information required by Federal sponsoring agency in compliance with governing legislation:						
<input type="text"/> <input type="button" value="Add Attachment"/> <input type="button" value="Delete Attachment"/> <input type="button" value="View Attachment"/>						
13. Certification: By signing this report, I certify to the best of my knowledge and belief that the report is true, complete, and accurate, and the expenditures, disbursements and cash receipts are for the purposes and objectives set forth in the terms and conditions of the Federal award. I am aware that any false, fictitious, or fraudulent information, or the omission of any material fact, may subject me to criminal, civil or administrative penalties for fraud, false statements, false claims or otherwise. (U.S. Code Title 18, Section 1001 and Title 31, Sections 3729-3730 and 3801-3812).						
a. Name and Title of Authorized Certifying Official <div> <div></div> <div>Prefix: <input type="text"/> First Name: <input type="text"/> Middle Name: <input type="text"/></div> <div>Last Name: <input type="text"/> Suffix: <input type="text"/></div> <div>Title: <input type="text"/></div> </div>						
b. Signature of Authorized Certifying Official				c. Telephone (Area code, number and extension)		
<input type="text"/>				<input type="text"/>		
d. Email Address				e. Date Report Submitted		14. Agency use only:
<input type="text"/>				4/26/24		

Grant Request Number	GRN-001554
Funding Program Name	Middle Mile Broadband Infrastructure Grant Program
Funding Request Name	Commonwealth Edison - Middle Mile - GRN-001554
Applying Organization	COMMONWEALTH EDISON COMPANY
Applicant Name	

Primary Applicant Type

Identify the primary applicant type:

Single Entity

— — —

Primary Entity Type

Type of entity: Primary entity type, (A) a State, political subdivision of a State, Tribal government, technology company, electric utility, utility cooperative, public utility district, telecommunications company, telecommunications cooperative, nonprofit foundation, nonprofit corporation, nonprofit institution, nonprofit association, regional planning council, Native entity, or economic development authority; or (B) a partnership of two (2) or more entities described in (A).

What is the primary applicant's entity type?

Electric Utility

— — —

Is parent/owner of applicant a foreign entity?

No

— — —

Managerial Capability

Applicants shall submit to the Assistant Secretary one-page resumes for (a) all key management personnel and (b) all key personnel of subcontractors or other entities that will play substantial roles in building, managing, or operating the middle mile network built using Middle Mile Grant (MMG) Program funding.

Key Personnel -

— — —

Managerial Capability

Applicants shall submit to the Assistant Secretary one-page resumes for (a) all key management personnel and (b) all key personnel of subcontractors or other entities that will play substantial roles in building, managing, or operating the middle mile network built using Middle Mile Grant (MMG) Program funding.

Key Personnel - [REDACTED]

Managerial Capability

Applicants shall submit to the Assistant Secretary one-page resumes for (a) all key management personnel and (b) all key personnel of subcontractors or other entities that will play substantial roles in building, managing, or operating the middle mile network built using Middle Mile Grant (MMG) Program funding.

Key Personnel - [REDACTED];

Managerial Capability

Applicants shall submit to the Assistant Secretary one-page resumes for (a) all key management personnel and (b) all key personnel of subcontractors or other entities that will play substantial roles in building, managing, or operating the middle mile network built using Middle Mile Grant (MMG) Program funding.

Key Personnel - [REDACTED]

Managerial Capability

Applicants shall submit to the Assistant Secretary one-page resumes for (a) all key management personnel and (b) all key personnel of subcontractors or other entities that will play substantial roles in building, managing, or operating the middle mile network built using Middle Mile Grant (MMG) Program funding.

Key Personnel - [REDACTED]

KeyPersonnel [REDACTED]

Managerial Capability

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Key Personnel - [REDACTED]

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Key Personnel - [REDACTED]

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Key Personnel - [REDACTED]

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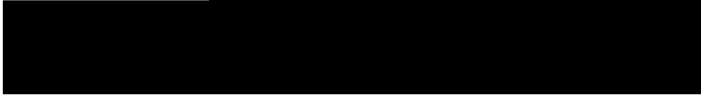

Key Personnel - [REDACTED]

Managerial Capability

Applicants shall submit to the Assistant Secretary one-page resumes for (a) all key management

personnel and (b) all key personnel of subcontractors or other entities that will play substantial roles in building, managing, or operating the middle mile network built using Middle Mile Grant (MMG) Program funding.

Key Personnel -

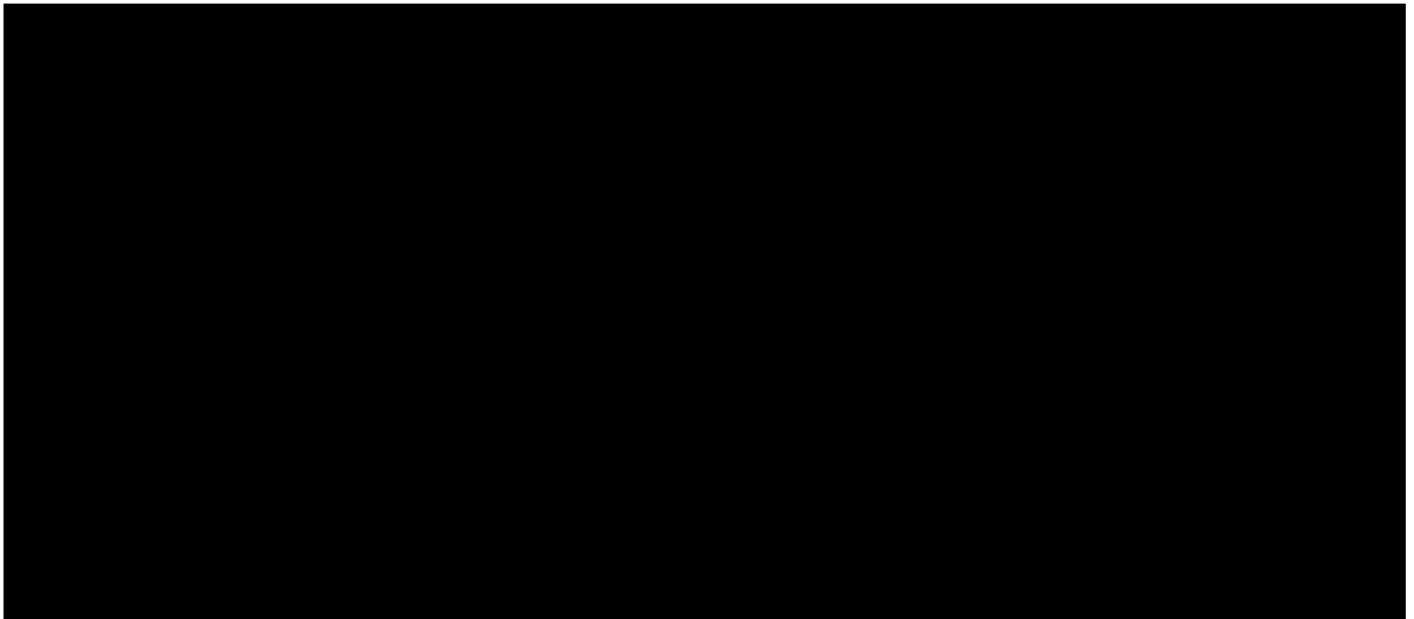


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Organizational Charts

Each applicant shall submit any necessary organizational chart(s) detailing all of its parent companies, subsidiaries, and affiliates.

This upload section should also be used for any letters of support from the organizations that will be involved in the project as a community stakeholder.



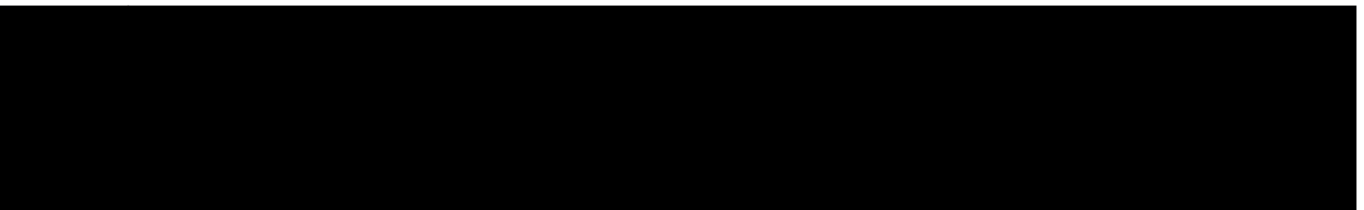
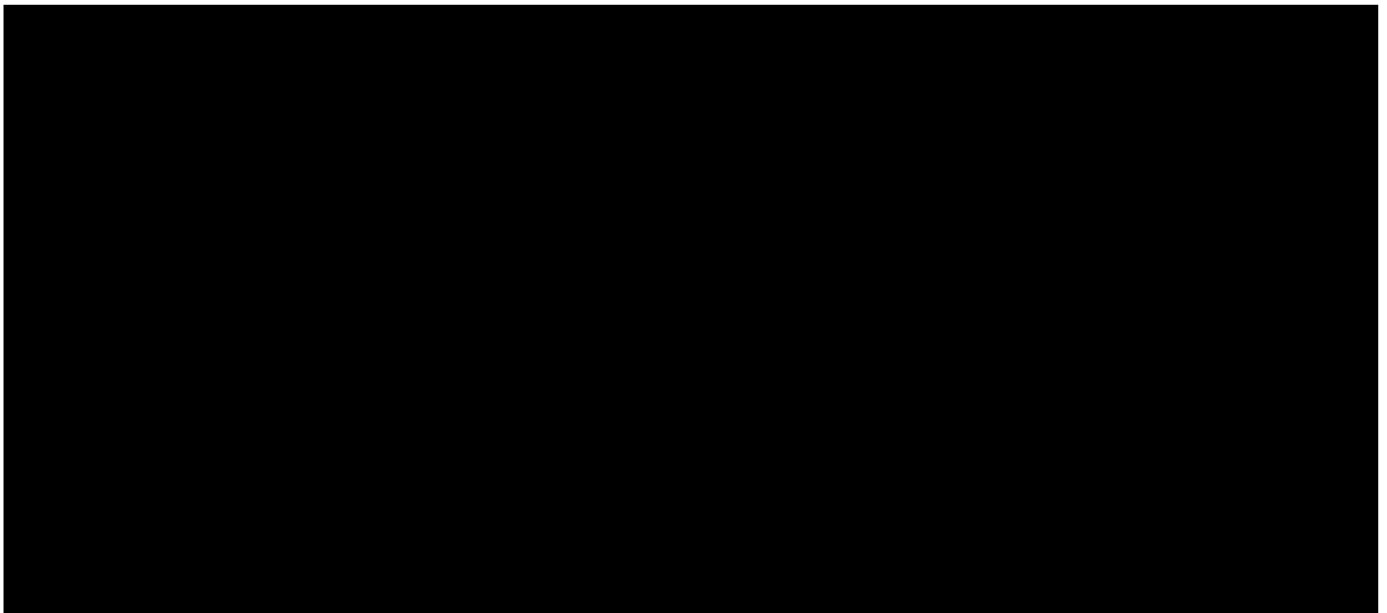
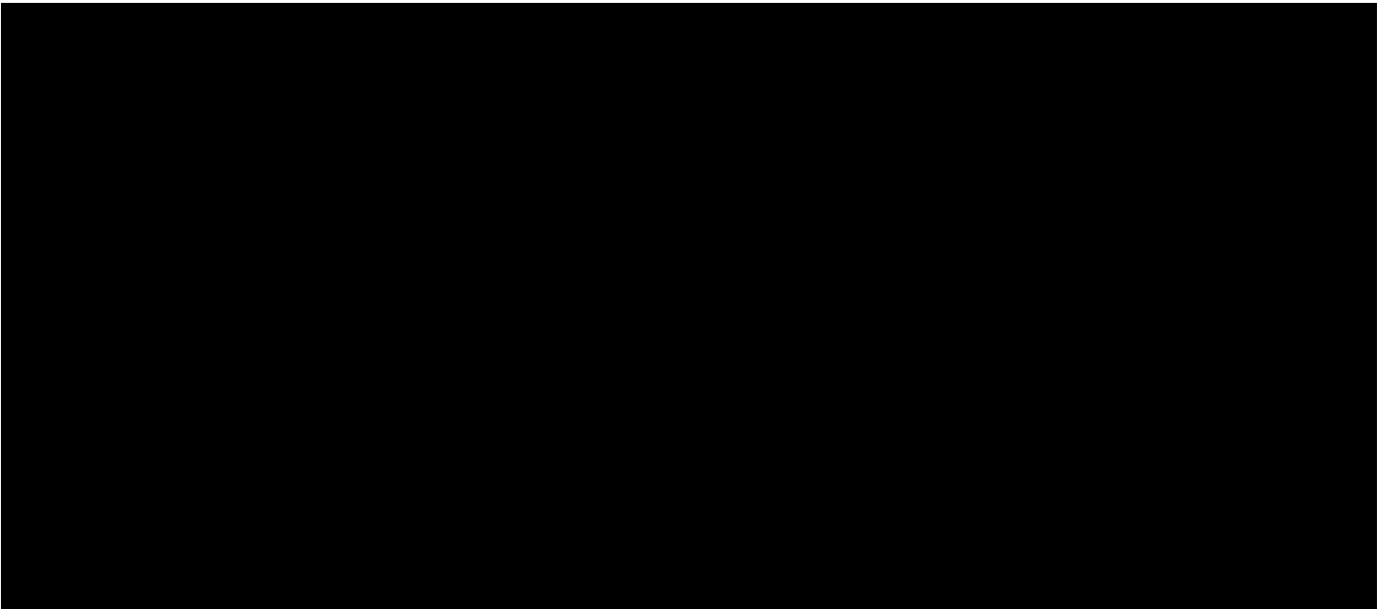
Organizational Details

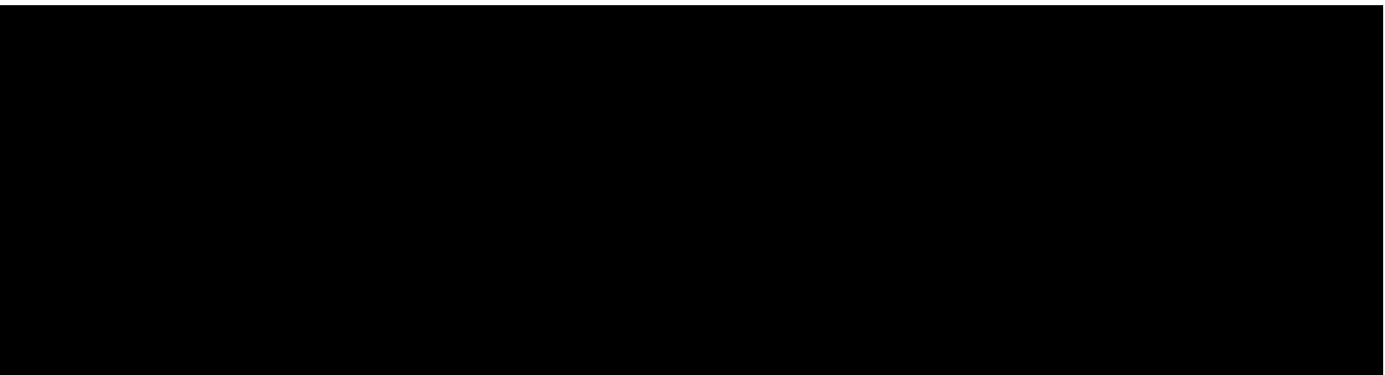
Each applicant must also provide a narrative describing the applicant's readiness to manage a middle mile broadband network. This narrative should describe the experience and qualifications of key management set to undertake this project, the applicant's experience undertaking projects of similar size and scope, recent and upcoming organizational changes including mergers and acquisitions, relevant organizational policies, and ownership information consistent with 47 CFR § 1.2112.

This narrative shall denote who will own the assets at the end of award period. This response is limited to 6000 characters as an open field narrative.

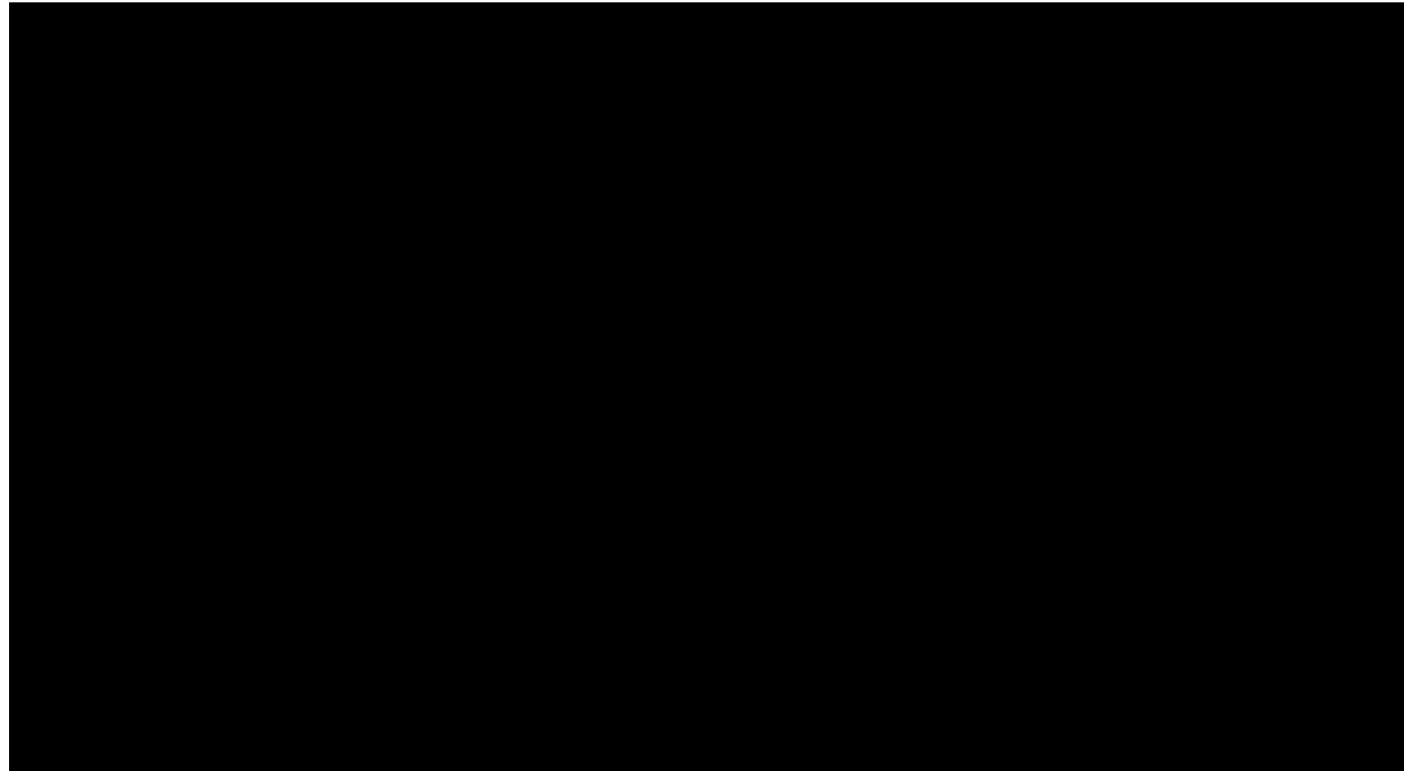
Per 47 C.F.R 1.2112 (a)(1)-(7), Ownership disclosure requirements, Commonwealth Edison Company, the applicant, is owned by Exelon Energy Delivery Company LLC. Exelon Energy Delivery Company (EEDC) LLC owns 99.90%. Exelon Corp owns 100% of EEDC LLC. There are no indirect ownership interests. The remaining items in 47 C.F.R 1.2112 are not applicable.

ComEd manages a network of over 90,000 miles of electricity lines, 1.3 million poles and 1,300 substations that make up the electrical infrastructure of the nation's third largest metropolitan region. To operate this extensive electric infrastructure requires secure, resilient, capable, and low-latency systems of communications (wired & wireless) to support measurement, monitoring, and control. For ComEd and its parent company Exelon, installing and managing fiber and other telecommunications networks, including microwave and other private wireless communication is a core competency.






Exelon IT uses the ITIL framework for service management. High levels of service have been defined, are monitored and reported on for more than 30 service offerings that Exelon IT Utility Communications supports.



Form CD-511 (Certification Regarding Lobbying)

The applicant must upload a completed form that certifies that Federal funds have not and will not be used for lobbying in connection with this request for Federal financial assistance. A fillable Form CD-511 can be found in the MMG ZIP folder.



Standard Form-LLL (Disclosure of Lobbying Activities)

Standard Form-LLL must be completed and submitted for those applicants that need to disclose

lobbying activities that have been secured to influence the outcome of a Federal action. A fillable Form SF-LLL can be found in the MMG ZIP folder.



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SAM.gov Registration

Applicants are asked to upload a screenshot of their SAM.gov registration.



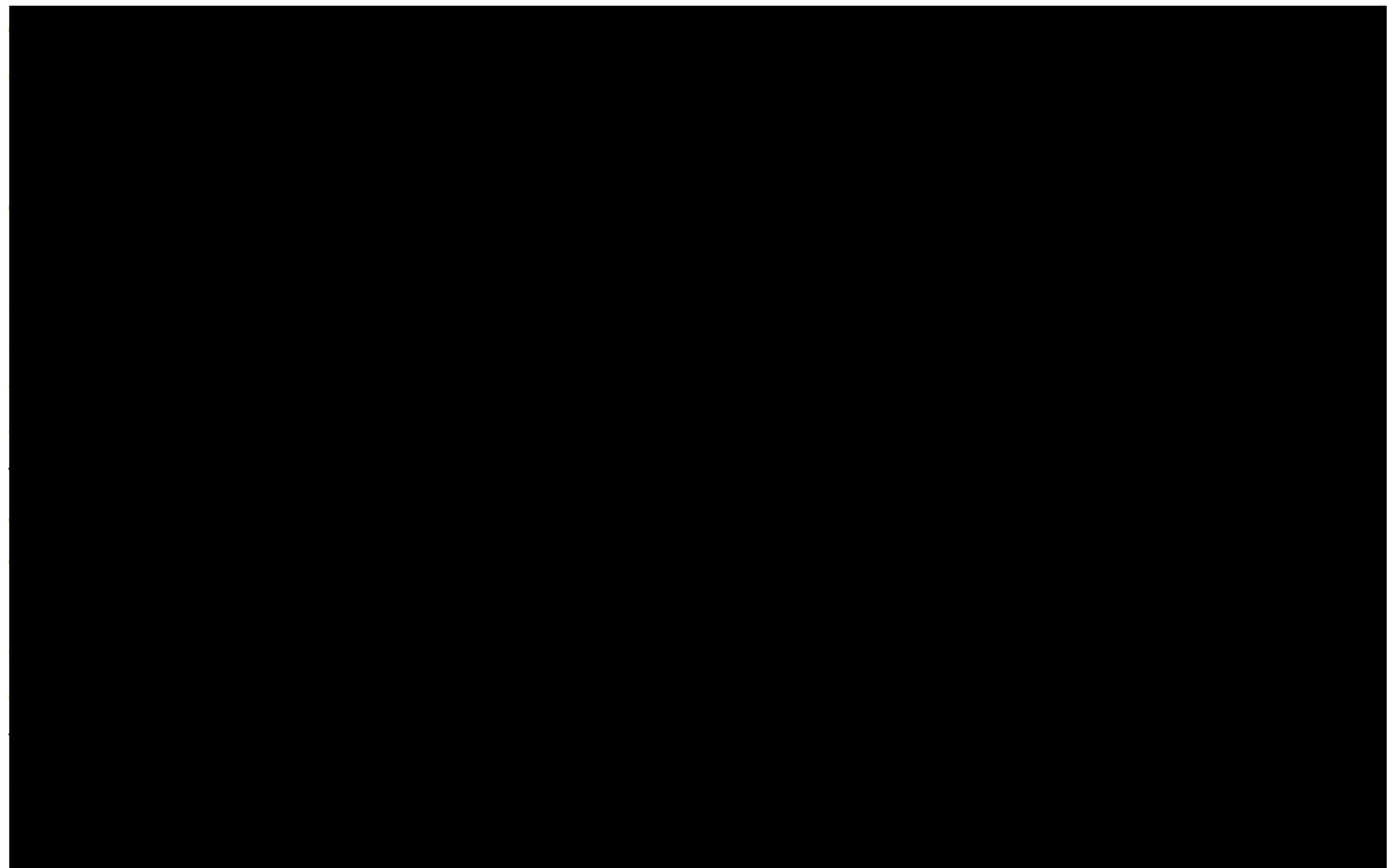
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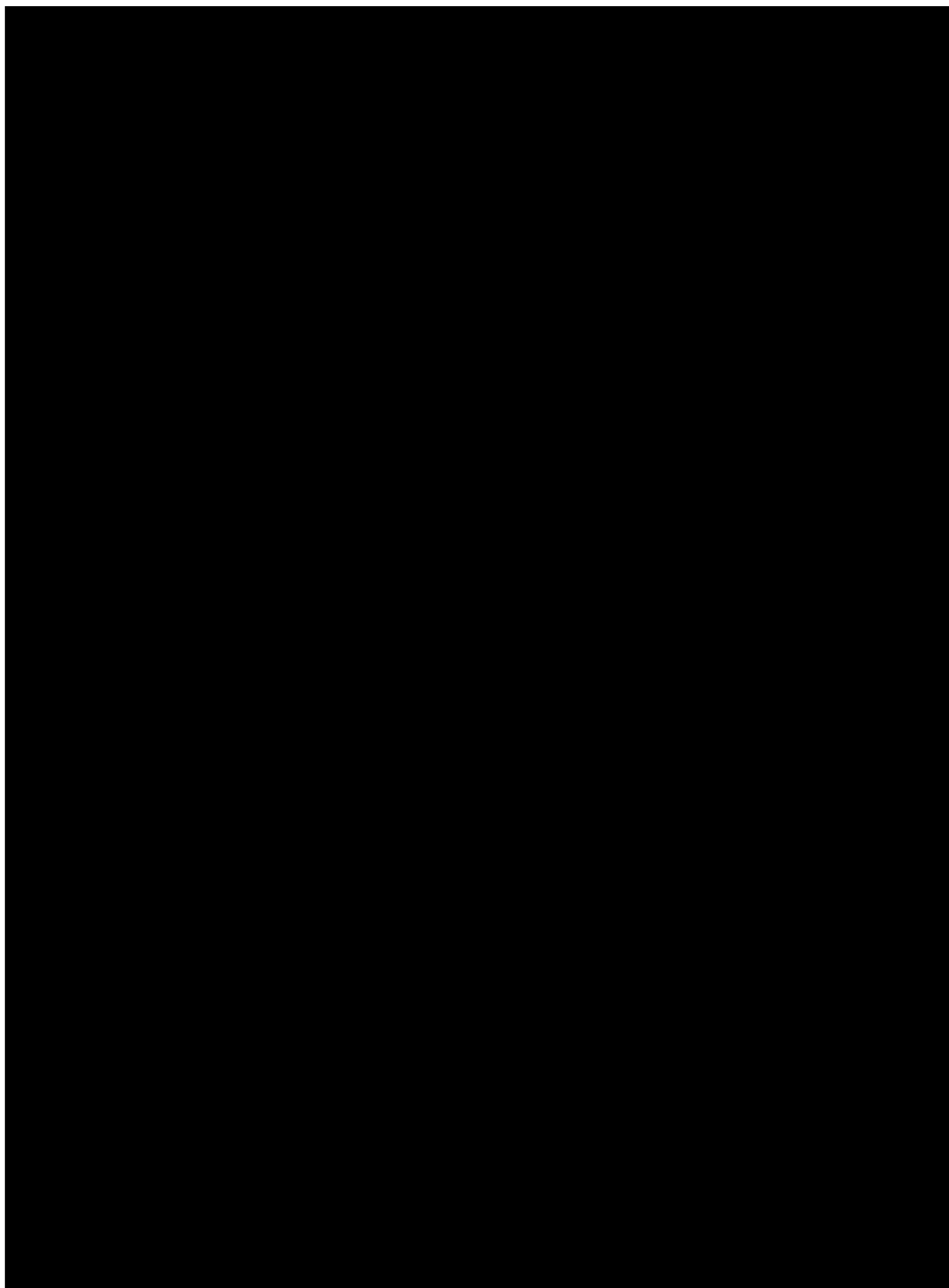
Executive Summary

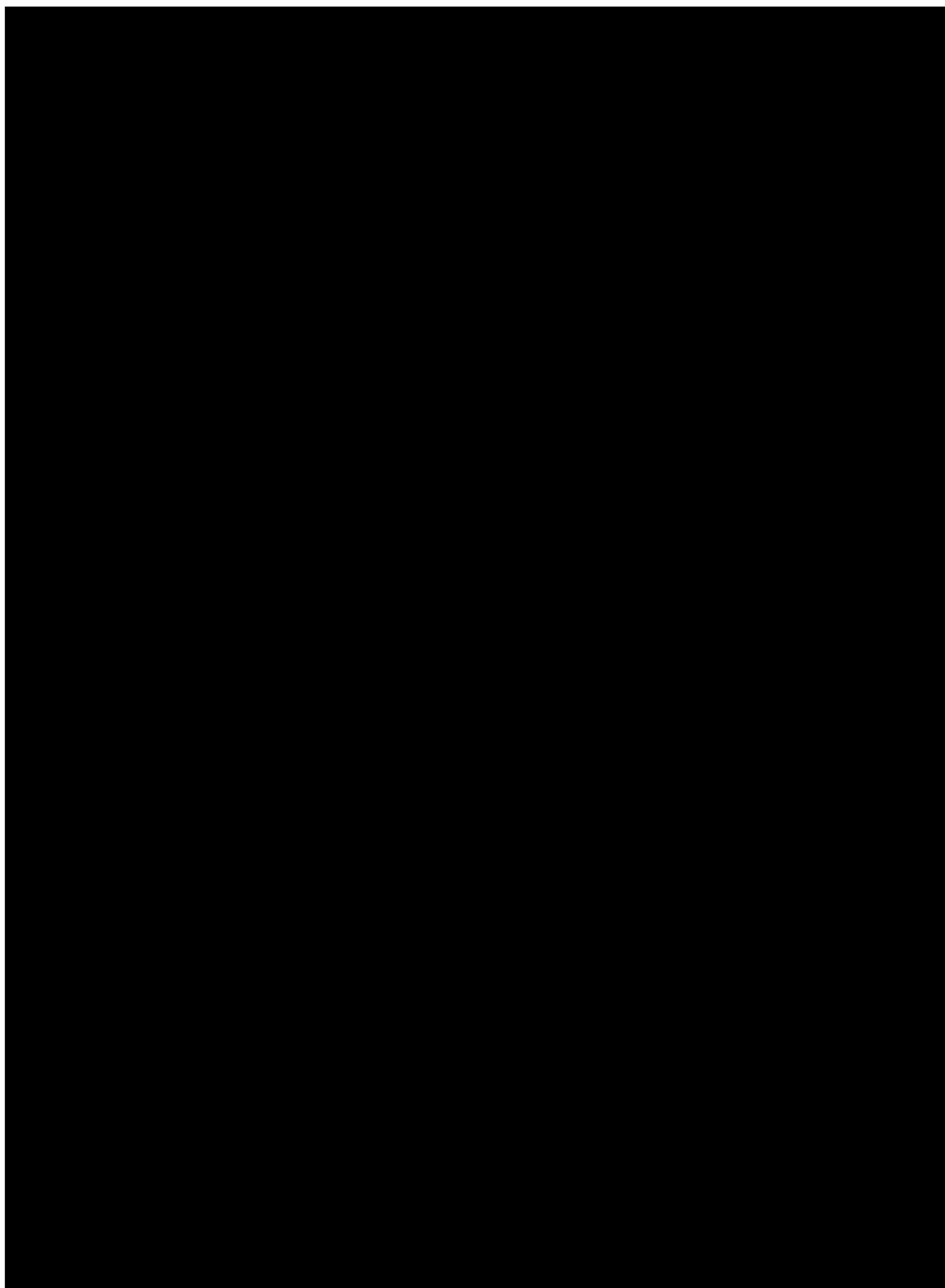
Please describe how the applicant's proposal will advance the objectives of the MMG Program, as well as the specific objectives of outlined in the Notice of Funding Opportunity (NOFO);

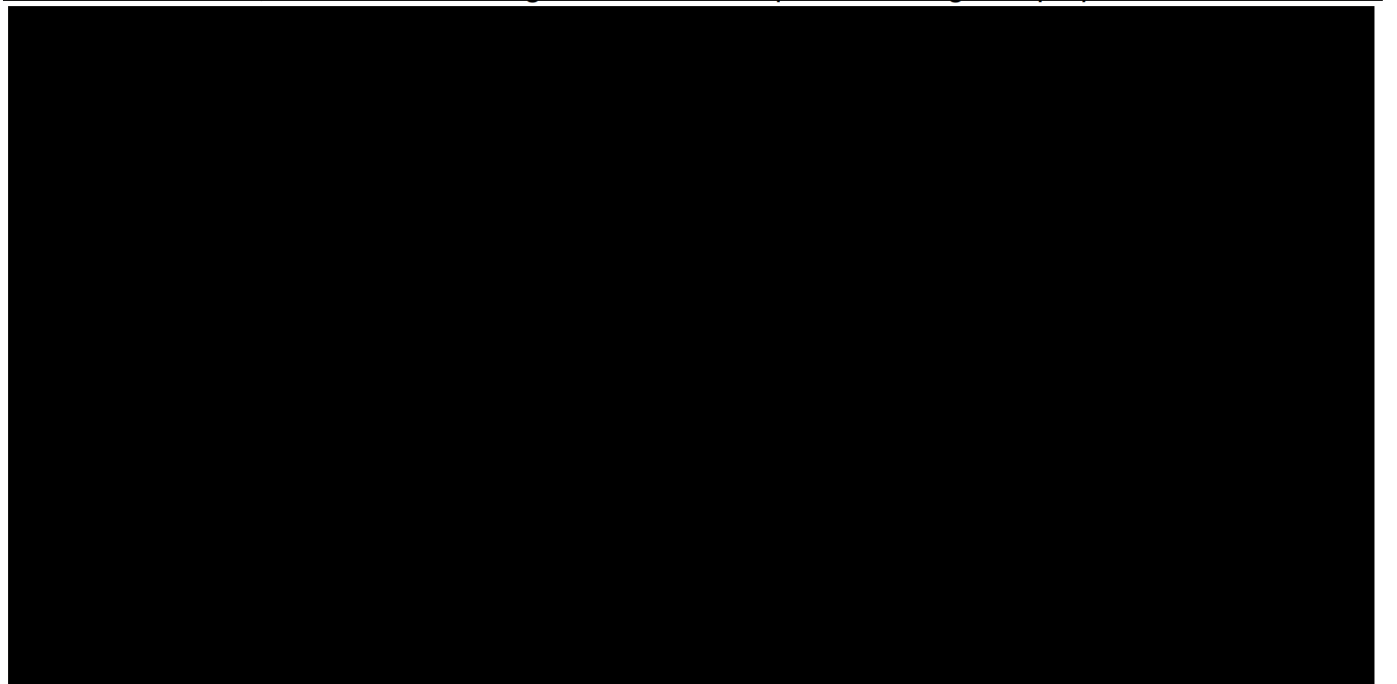
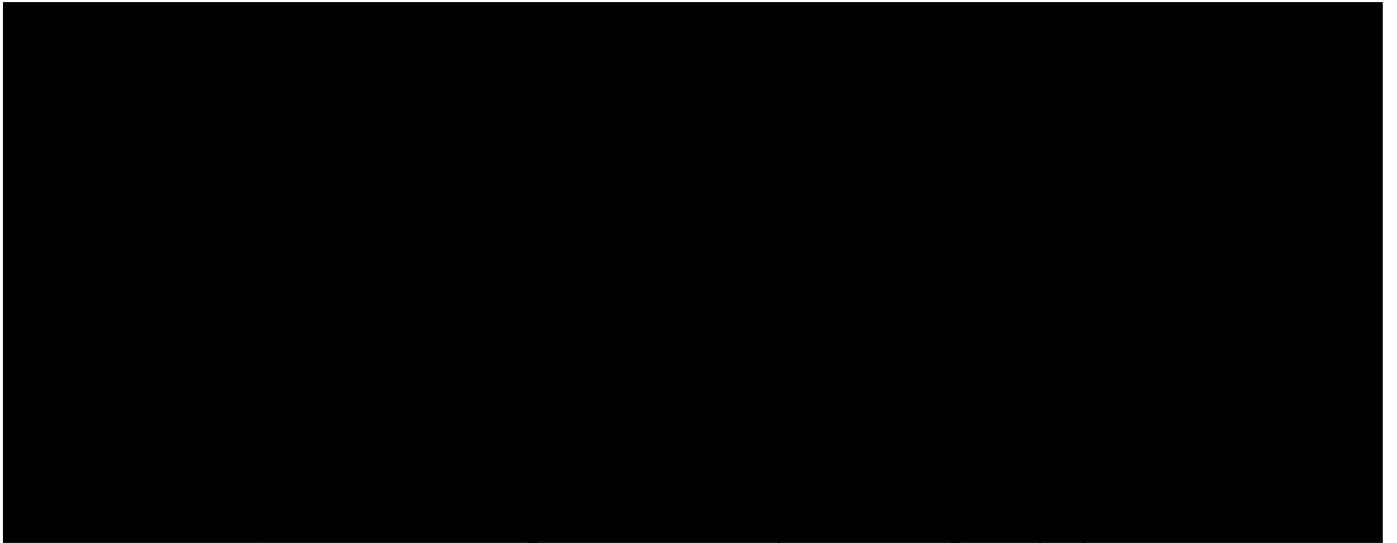
An overview of the proposed route or service area(s), including information regarding rurality and socio-economic indicators in the area to be served by the proposed project.

This response is limited to 12000 characters as an open field narrative.







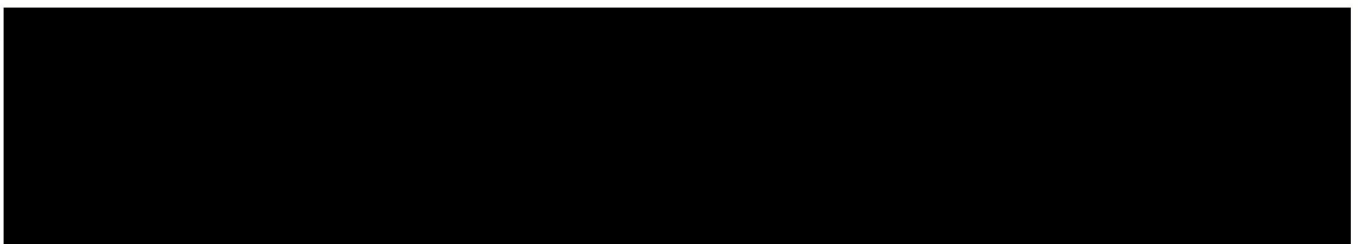


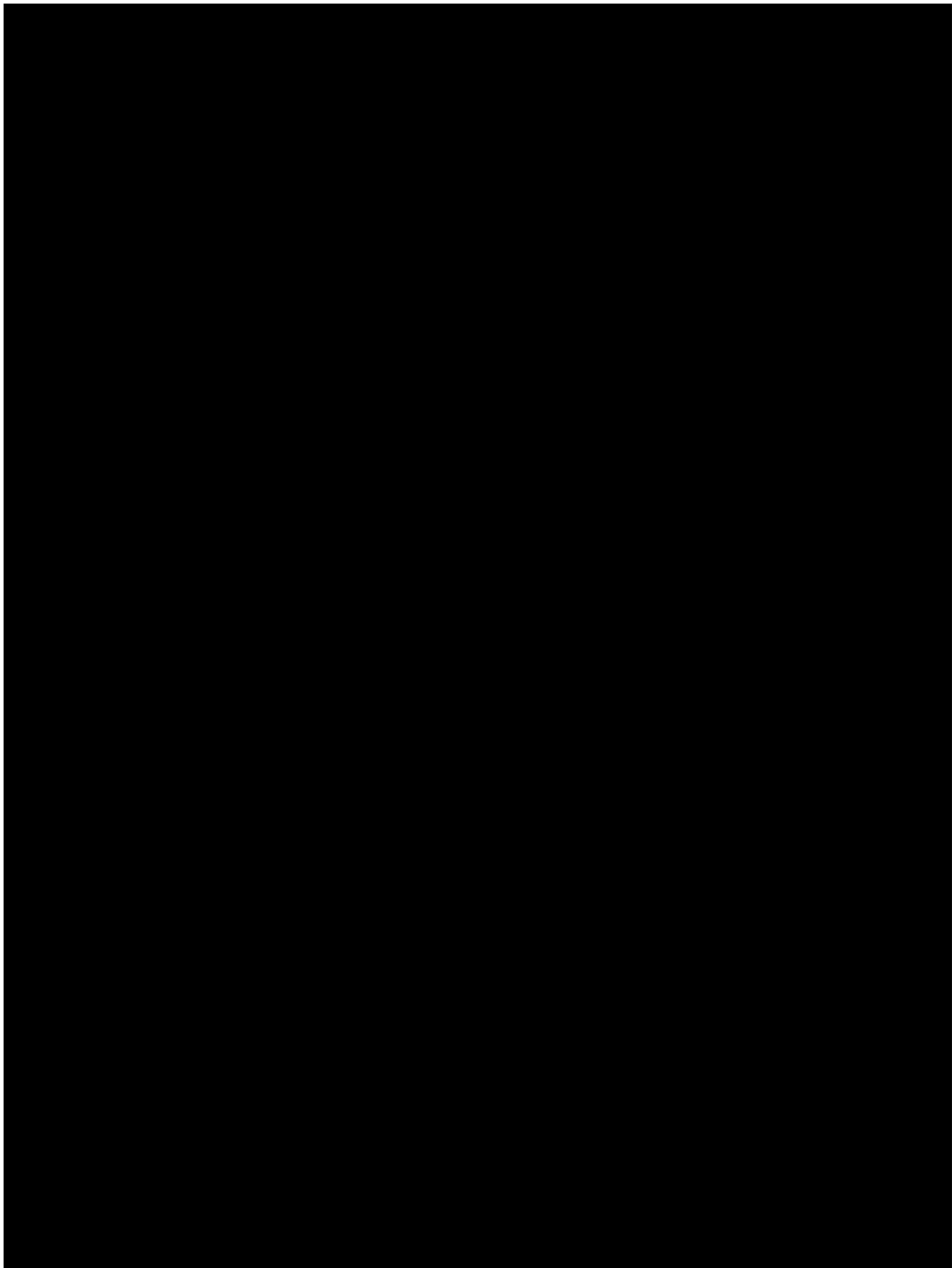
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Level of Need

A description of the level of need in the proposed service area(s), including but not limited to communities considered unserved and/or underserved in the proposed service area(s), discussion of the competitive landscape in the area, variations among service areas if there are any, or the general economic conditions in the proposed funded service area.


This response is limited to 12000 characters as an open field narrative.







To meet the same percentage of wallet share in the highest subscribed areas, ComEd projected the hypothetical adjusted end-user service price for the lowest subscribed areas should be ██████ month; In some of the most severely unconnected communities, adjusted service pricing would need to be as low as ██████ These levels are far below the existing prices in the identified project area for high-speed services, a likely major driver for the lower broadband connectivity rates in these neighborhoods. Current 'low cost' options from providers serving these areas are ██████, but limited to speeds up to ██████ Mbps and higher speed, ██████ Mbps+ options are far out of range, with pricing from ██████ / month.



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Community Engagement - [REDACTED]
whose primary intent is to define and deliver on [REDACTED] Additionally,

ComEd leverages its existing external affairs team relationships to engage with the appropriate individuals and community groups that will be impacted by this project.

As part of its multi-year grid planning efforts, ComEd participated in stakeholder workshops that allow a forum for interested parties to effectively and efficiently provide feedback and input to the electric utility [REDACTED]. These workshops included community and City of Chicago representatives as well as non-profit entities that ComEd is currently engaged with such as a [REDACTED] and [REDACTED] who presented during these sessions the need for broadband equity in key areas within the City of Chicago (presentations available at the link above). In these workshops, community perspectives were garnered to discuss the role utilities might play in helping bridge the digital divide leveraging grid telecommunications infrastructure.

State Collaboration Acknowledgement

NTIA strongly encourages prospective non-state applicants to coordinate and consult with the State Broadband Office or other coordinating body located in the jurisdiction in which the eligible entity proposes to deploy middle mile infrastructure to ensure that the proposal is consistent with the state's broadband plan and priorities. Please confirm collaboration and consultation.

Do you confirm collaboration and consultation with the appropriate organization?

Yes

— — —

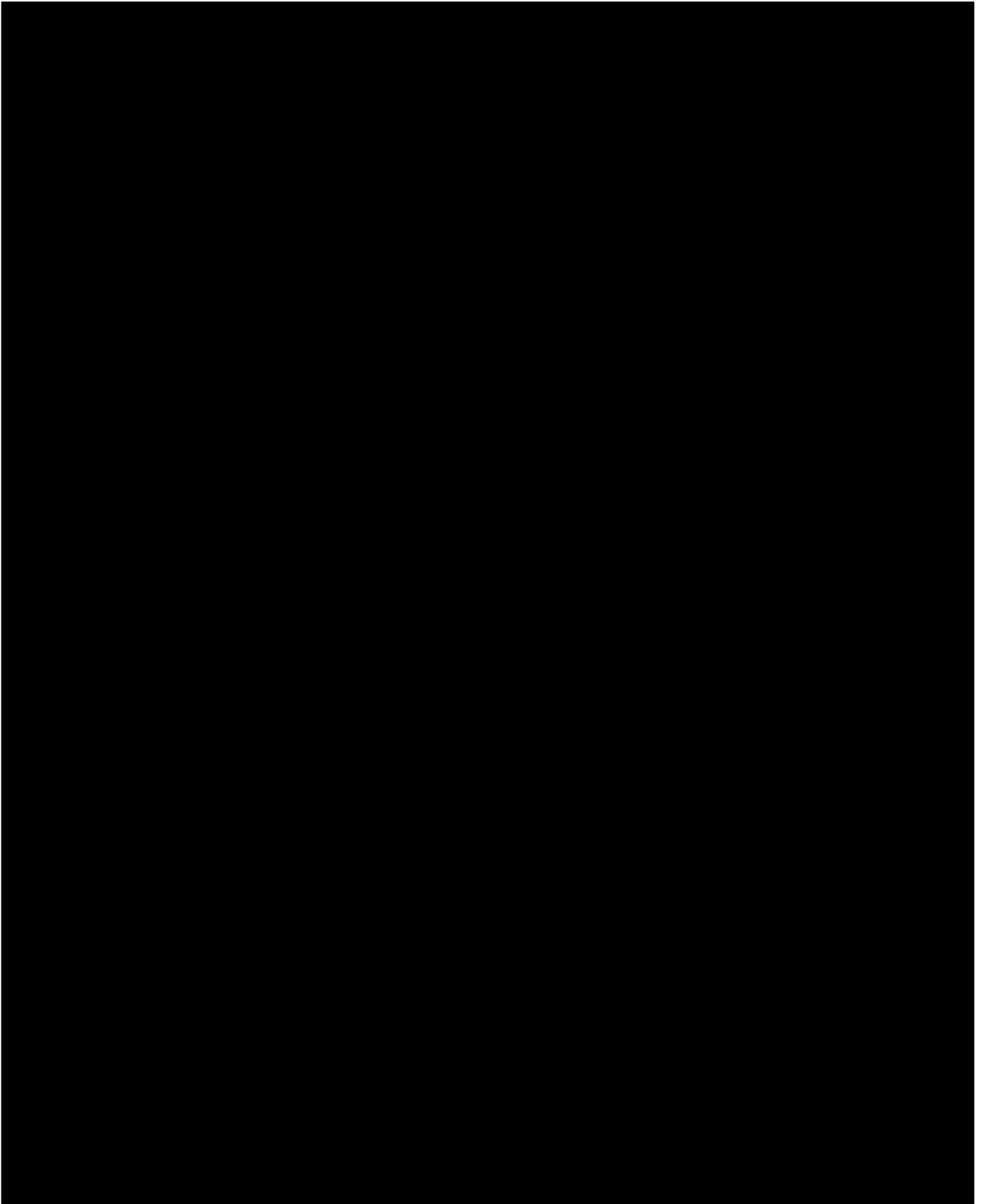
State and Local Collaboration Narrative

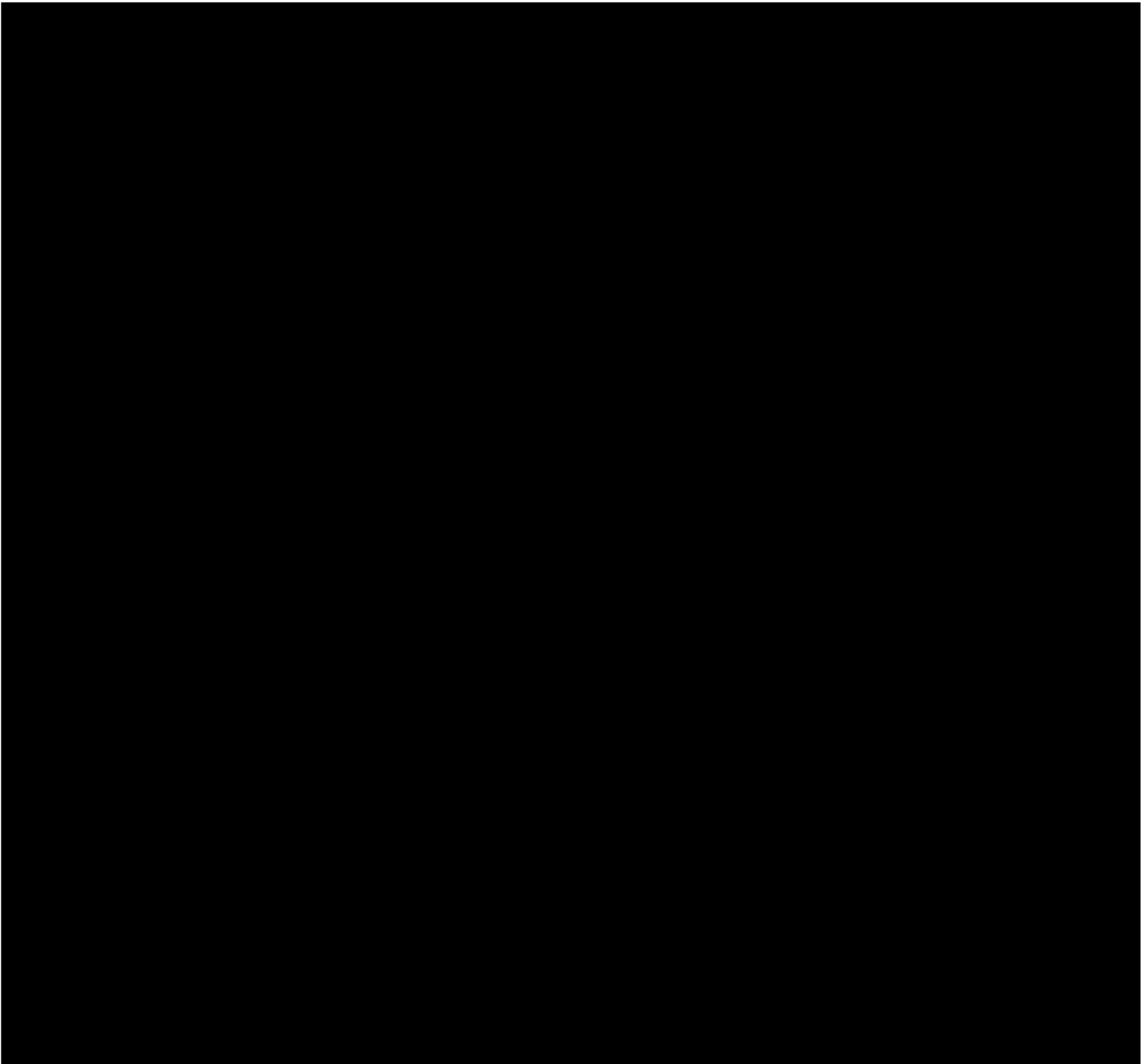
Please provide information on the applicant's coordination with applicable State, Territory, Tribal, and local governments, including their awareness of the proposed project and any potential impact to respective service areas; and

Information regarding the applicant's involvement and coordination with community organizations or other relevant partners in the proposed service area.

This response is limited to 6000 characters as an open field narrative.

The following entities have been engaged to assist in community engagement efforts as well as in providing ancillary services such as digital education, job placement services, and access to digital health tools.





— — —

Will the project connect middle mile infrastructure to last mile networks that provide or plan to provide broadband service to households in unserved areas?



— — —

Is the project connecting non-contiguous trust lands?



— — —

Do you commit to offering wholesale broadband service at reasonable rates on a carrier-neutral basis?



The eligible entity adopts fiscally sustainable middle mile strategies. This strategy should be described in the Budget Narrative.

Do you attest to this?



The eligible entity commits to offering non-discriminatory interconnect to terrestrial and wireless last mile broadband providers and any other party making a bona fide request. This policy will be described in the Interconnect Policy.

Do you attest to this?



The eligible entity identifies specific terrestrial and wireless last mile broadband providers that have(i) expressed written interest in interconnecting with middle mile infrastructure planned to be deployed by the eligible entity; and ii) demonstrated sustainable business plans or adequate funding sources with respect to such interconnection. This may be demonstrated in the Level of Need narrative of the Exec Summary.

Do you attest to this?



The eligible entity has identified supplemental investments or in-kind support (such as waived franchise or permitting fees) that will accelerate the completion of the planned project. Such acceleration may be described in the Project Timeline narrative.

Do you attest to this?



The eligible entity has demonstrated that the middle mile infrastructure will benefit national security interests of the United States and the Department of Defense. The benefits may be explained in the Benefitting National Security Interests Narrative.

Do you attest to this?



Please describe:

Project

Duration

Number of Years

Project Timeline Narrative

The narrative requires the Applicant to describe a project with critical path, including key milestones for implementation of the project, preparations, and risk factors; and a capital investment schedule evidencing that the applicant will complete build-out and the initiation of service within five years of

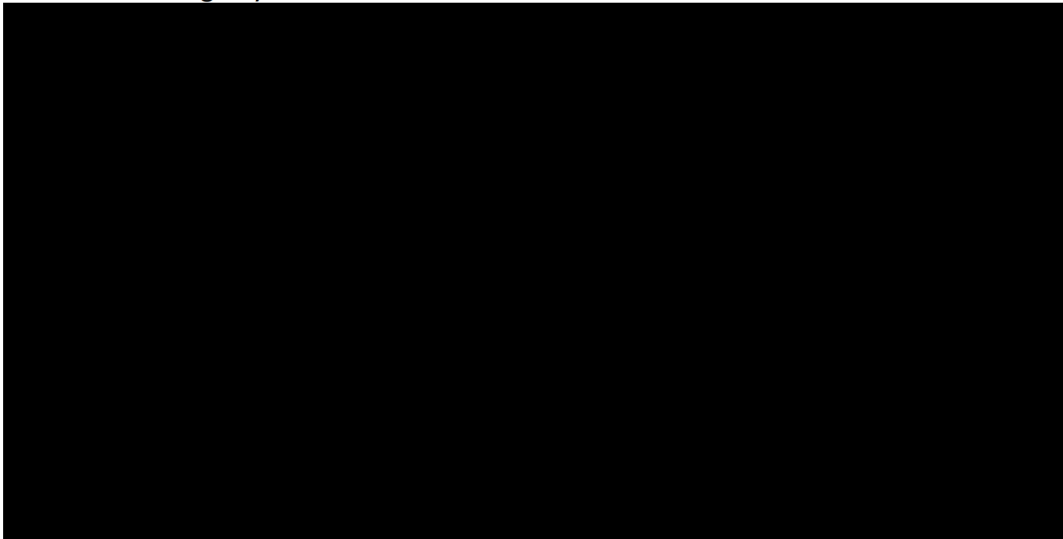
the date on which the entity receives the grant and will meet interim buildout requirements set forth herein and in any other binding document.

If the project is able to be accelerated with supplemental investments or in-kind support to meet a statutory purpose, this should be explained.

This response is limited to 6000 characters as an open field narrative.

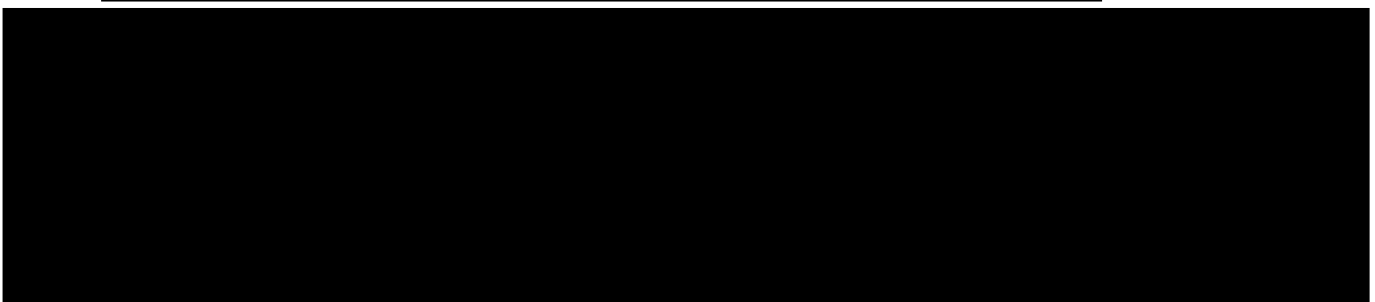
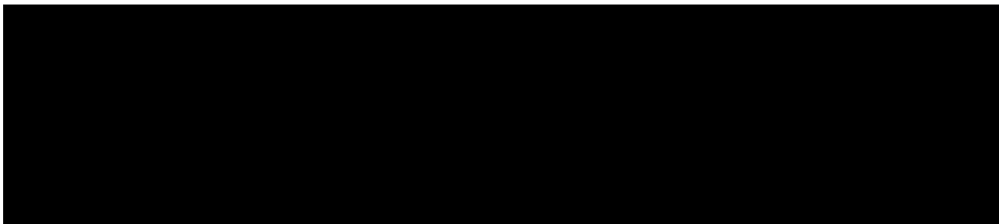
ComEd has extensive experience in construction and service management of a robust fiber network since the 1990s. ComEd continually seeks to modernize and expand construction and operational management while balancing safety, effectiveness, and efficiency. This overall fiber deployment program spans multiple years as ComEd seeks to build reliable links to connect communities, businesses, telehealth providers, educational institutions and other essential online services. Modeled on past experience with fiber deployment, the project schedules are planned and tracked based on the following key activities:

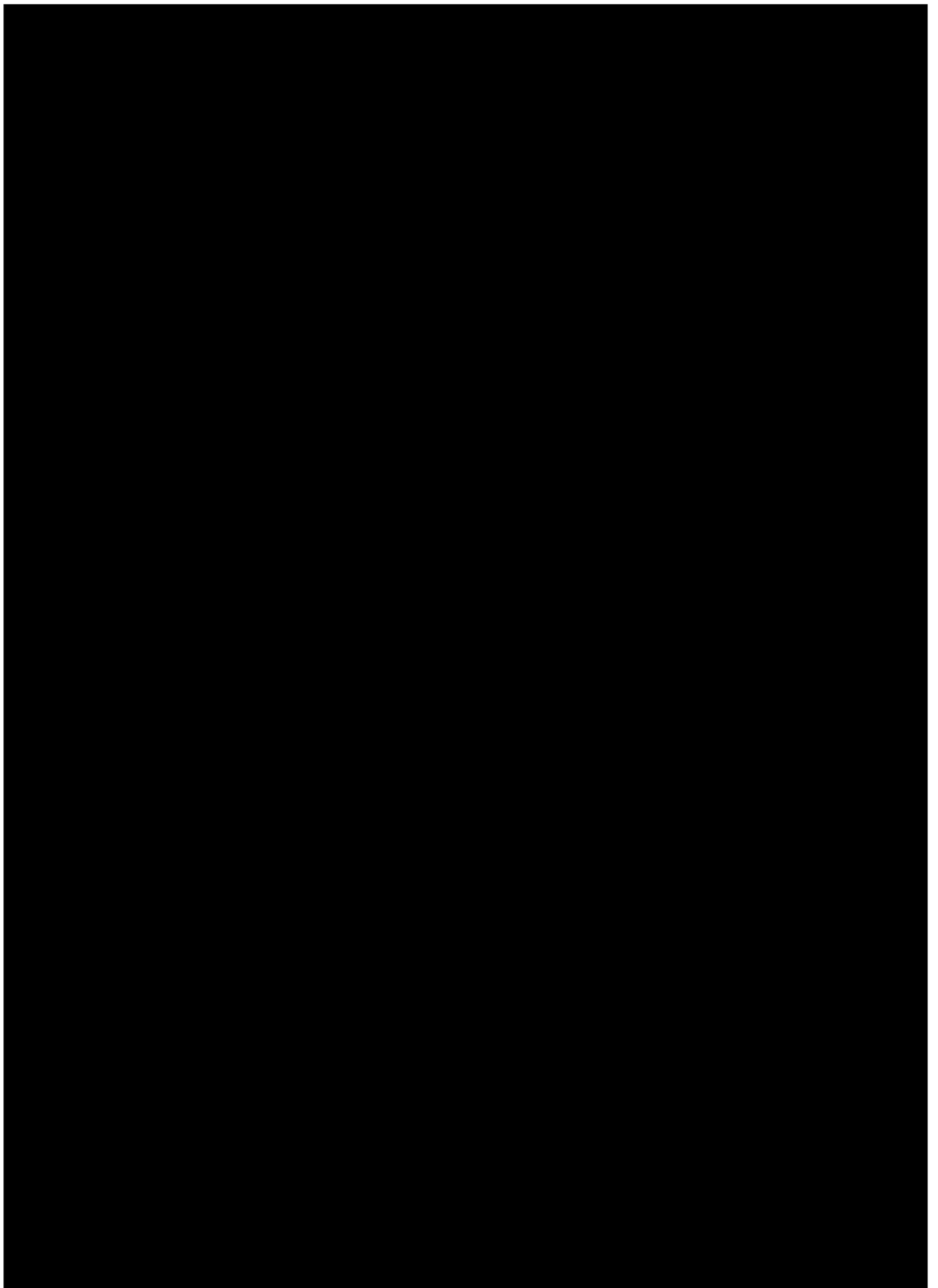
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ComEd is proposing a phased implementation schedule across 5 phases (each phase being one year). The proposed phased buildout of fiber will encompass the various neighborhoods that have been selected as unserved or underserved in Chicago with the following breakdown.

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Project Timeline File

Applicants are asked to upload a timeline which will denote key milestones for implementation of the project, including but not limited to field survey, network design, equipment/material procurement, environmental assessment, permitting, construction, network testing, network activation and completion.



— — —
Is an extension being requested?



— — —

Special Rules for Tribal Governments and Native Entities

The Infrastructure Investment and Jobs Act permits the Assistant Secretary, in consultation with Tribal governments and Native entities, to waive, or specify alternative requirements, in connection with most directives governing the MMG Program if the Assistant Secretary finds that waiver or modification of the requirement is necessary for (a) the effective delivery and administration of middle mile grants to Tribal governments or (b) the construction, improvement, or acquisition of middle mile infrastructure on trust land.

Is a waiver or alternative requirements requested?



— — —

Fair Labor Practices

Applicants must have a demonstrated record of and plans to be in compliance with federal labor and employment laws as described in III.H in the NOFO. This will help ensure that projects are carried out in accordance with the law, assist NTIA in ensuring that a prospective awardee is capable of carrying

out activities funded by an award in a competent manner in compliance with all applicable federal, state, and local laws; and promote the effective and efficient completion of high-quality middle mile broadband infrastructure projects by ensuring a reliable supply of skilled workers and minimizing disruptive and costly delays.

This response is limited to 6000 characters as an open field narrative.

ComEd recognizes that our employees are one of our most valuable assets and essential to our success. We strive to attract highly qualified and diverse talent who reflect our core competencies as an innovative, forward-thinking and people-focused organization. [REDACTED]

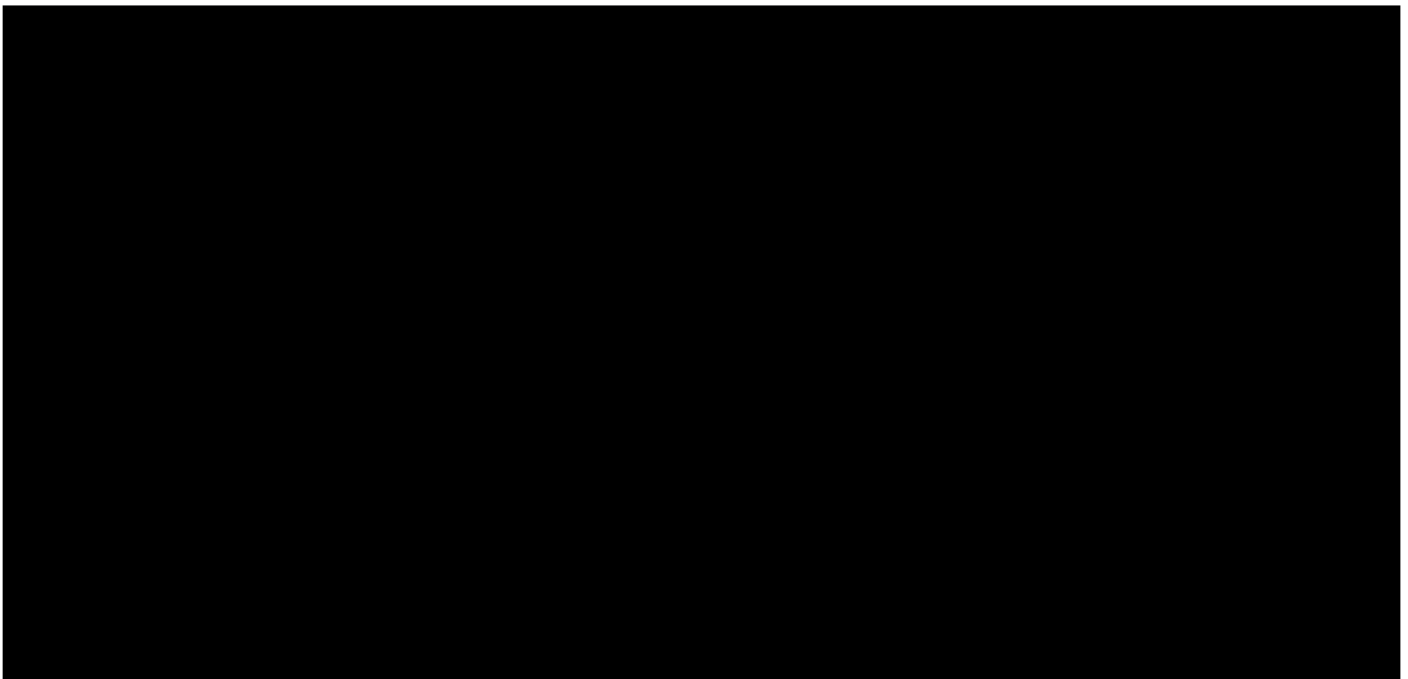
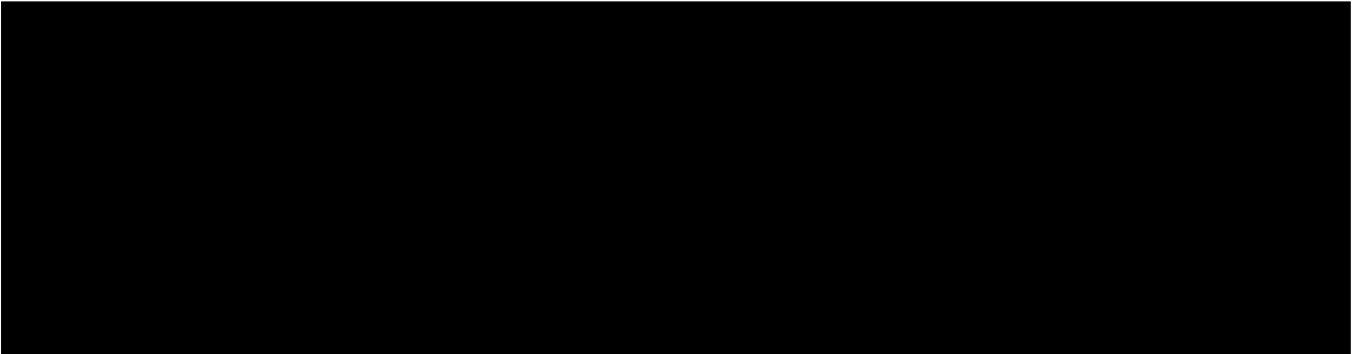
ComEd has not been found to have violated laws such as the Occupational Safety and Health Act, the Fair Labor Standards Act, or any other applicable labor and employment laws for the preceding three years.

ComEd has been consistently committed to compliance with federal standards for fair labor practices, including paying employees above the prevailing wage, and offering strong benefits; providing opportunities for growth through extensive training (referenced in the Highly Skilled Workforce narrative), apprenticeships and workforce development programs (referenced in the Workforce Development narrative).

ComEd adopts a market-based system as the primary method of valuing salaried, non-represented jobs based on available external market data. In a market-based system, positions have a market value, based on a comparison of similar positions in the marketplace using available independent, published salary surveys. Where market data is available and validated, a market reference range is established around the market value (also referred to as the market reference point) and represents the competitive “market pay” for that position. Market reference ranges are developed by Compensation, then reviewed, validated and approved by Leadership from each participating business unit or functional area. Market reference ranges help ComEd ensure that base pay for individuals is managed in line with the external market. All market reference ranges are subject to review annually. This approach to its wages ensures ComEd meets or exceeds prevailing wage for the industry in its region.

ComEd additionally has established controlled documents which provide the standard guidelines for salary compliance and follows the Fair Labor Standards Act (FLSA). This document, titled Fair Labor

Standards Act Salary Compliance Process (HR-AC-39) clearly details salary requirements and establishes a complaint and investigations procedure. This policy applies to all 'exempt' employees of the parent company Exelon Corporation including all subsidiaries, affiliates or related companies as designated by the Fair Labor Standards Act.



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Officer Certification

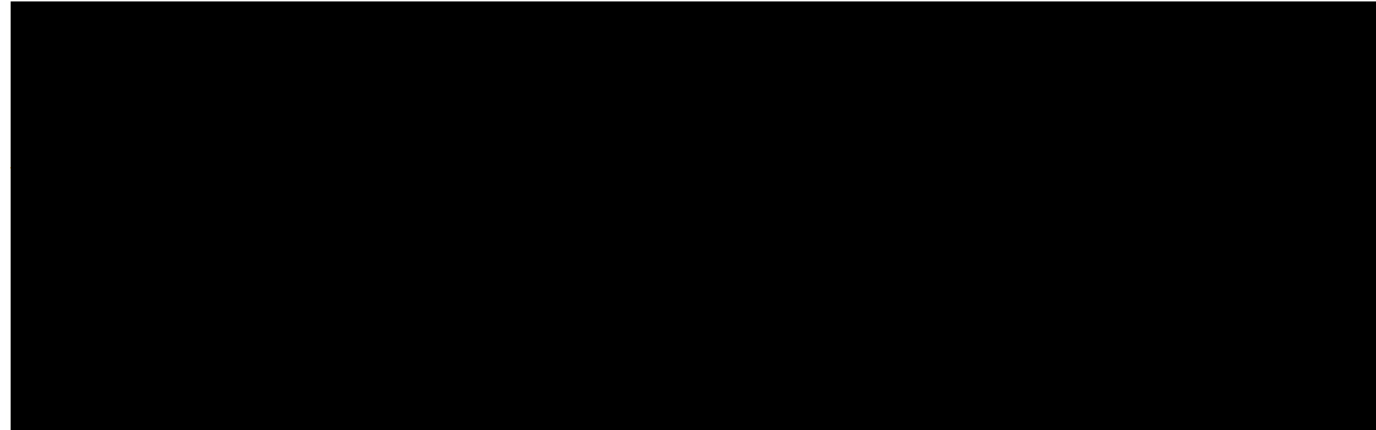
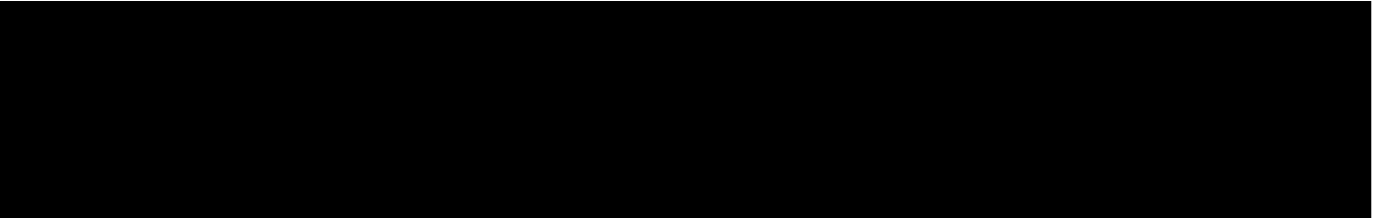
In order for NTIA to evaluate an applicant's demonstrated record of and plans to be in compliance with federal labor and employment laws, each applicant must provide examples of items described in III.H in the NOFO. Applicants are asked to upload a Certification from an Officer/Director-level employee (or equivalent) of the applicant evidencing consistent past compliance with federal labor and employment laws by the applicant, as well as contractors and subcontractors.



Highly Skilled Workforce

To ensure that applicants have the technical and operational capacity to carry out the project, applicants must submit a plan for ensuring that the project workforce will be an appropriately skilled and credentialed workforce (including by the applicant and each of its contractors and subcontractors). The plan for a highly skilled workforce should include the information described in III.I in the NOFO.

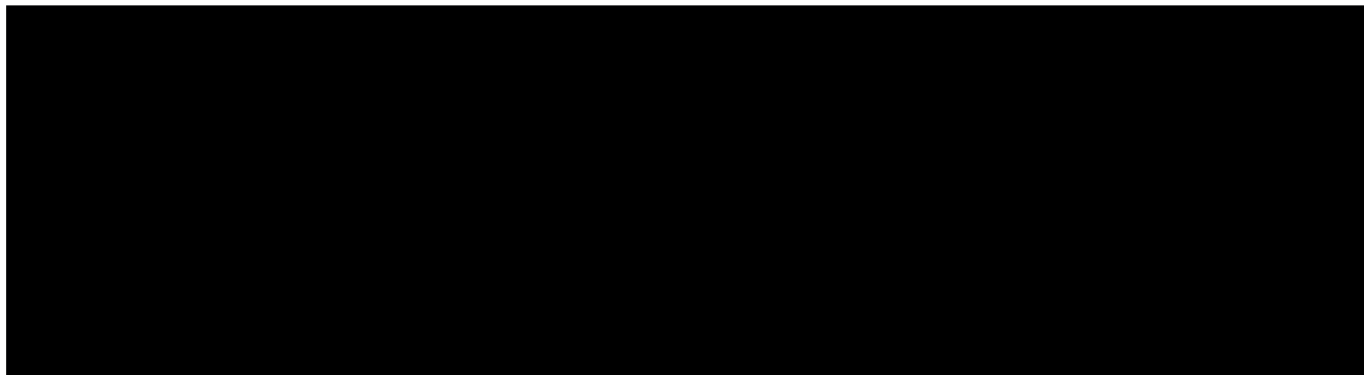
This response is limited to 6000 characters as an open field narrative.

A fiber installation crew consists of [REDACTED] represented Overhead employees dependent on the scope of work. The crew is led by a Crew Leader and at least one Overhead Apprentice (Job title of Overhead Starter). Entry-level Construction Workers or Overhead Helpers may be assigned to perform installation as needed as part of a [REDACTED]-member crew.

For Overhead Electrician Special / Troubeman / Service Operators pre-requisites include OSHA 1910.269 – Electric Power Generation, Transmission, and Distribution & program entry qualifications for internal employees involve successful completion of pre-req progression schools, OJT experience, and passing score on entry-level OES/Troubeman/Service Operator Knowledge Check. For external employees, journey-level field experience, passing score on entry-level Knowledge Check, and pass rating on entry-level physical Job Performance Assessments are required. Continued refresher training

required for each Trainee is determined annually by Line & Training organizations, with a Curriculum Review Council (CRC) and Training Council annual review of topics for selection and inclusion in continuing / refresher training.



For Engineering roles, pre-requisites include successfully meeting all required hiring criteria for their engineering position. Personnel entering engineering positions typically possess a significant level of relevant knowledge obtained by baccalaureate studies in engineering, a related technical field, or knowledge of engineering principles obtained through experience. Initial and Continuing training are offered with the Engineering Curriculum Review Committees (CRCs) and Training Advisory Councils (TACs) annual review of review topics topic selection and inclusion.

ComEd has an established set of standards and processes for the engineering, procurement, construction, operation, and maintenance of the fiber network. Program governance, stakeholder roles & responsibilities, and fiber design, deployment and turnover processes are reviewed and reinforced on an annual basis. The processes define when and how Contractors are engaged within the Fiber Route Design and Fiber Route Installation processes of the Fiber Engineering to Delivery & Turnover lifecycle. ComEd has certified, pre-approved engineering and construction contractors that will be used for this project, with credentials that meet federal and local standards. Contractors are required to sign terms and conditions that certify compliance with applicable laws pertaining to nondiscrimination and compliance. Formal onboarding processes, with required annual certifications of training, including job-specific and OSHA safety training are also required.

Additionally, please reference ComEd's Workforce Development response as part of this application for a description of additional joint labor-management training programs and other workforce development initiatives not described above that support the development of an appropriately skilled and diverse workforce.

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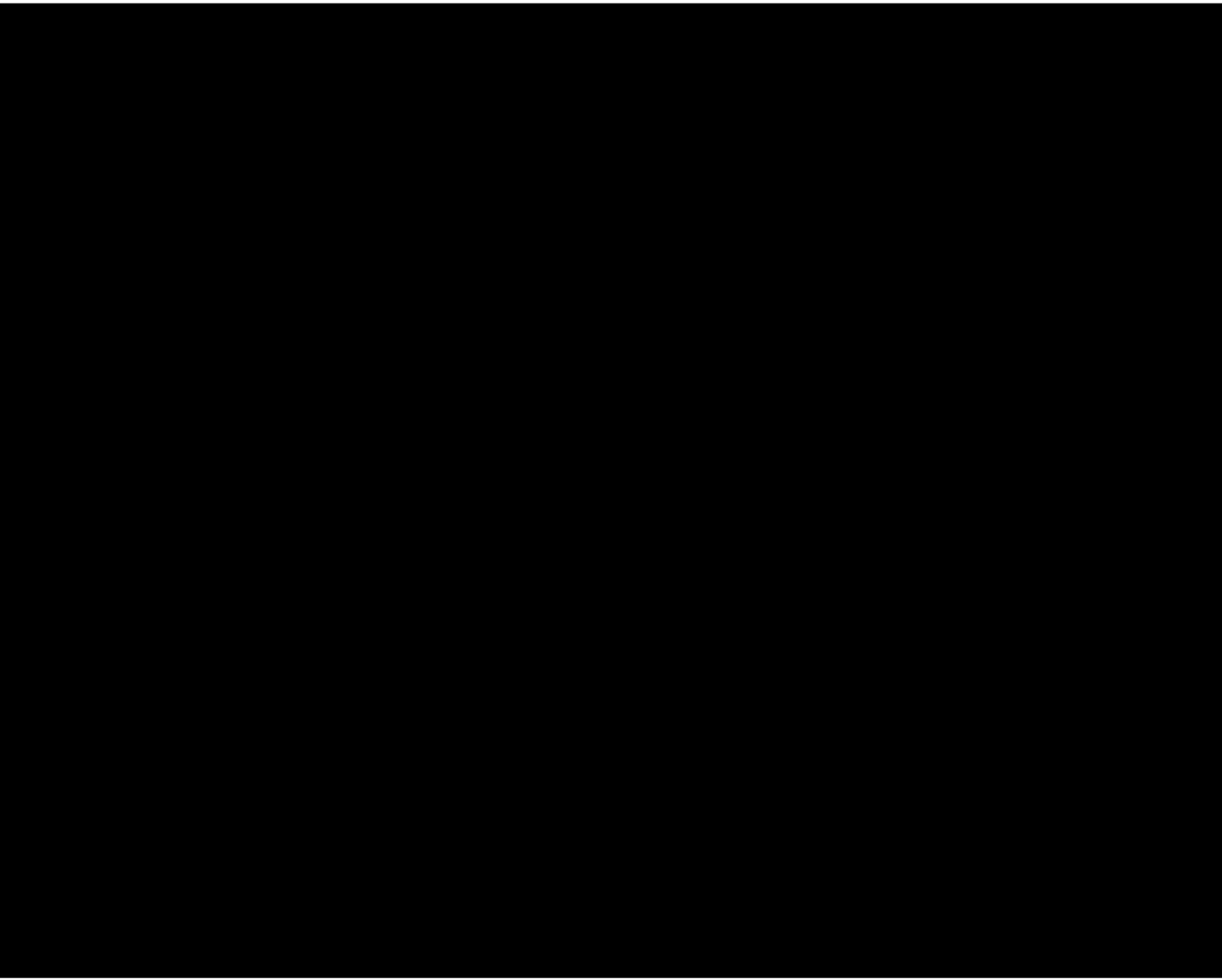
Advancing Workforce Development

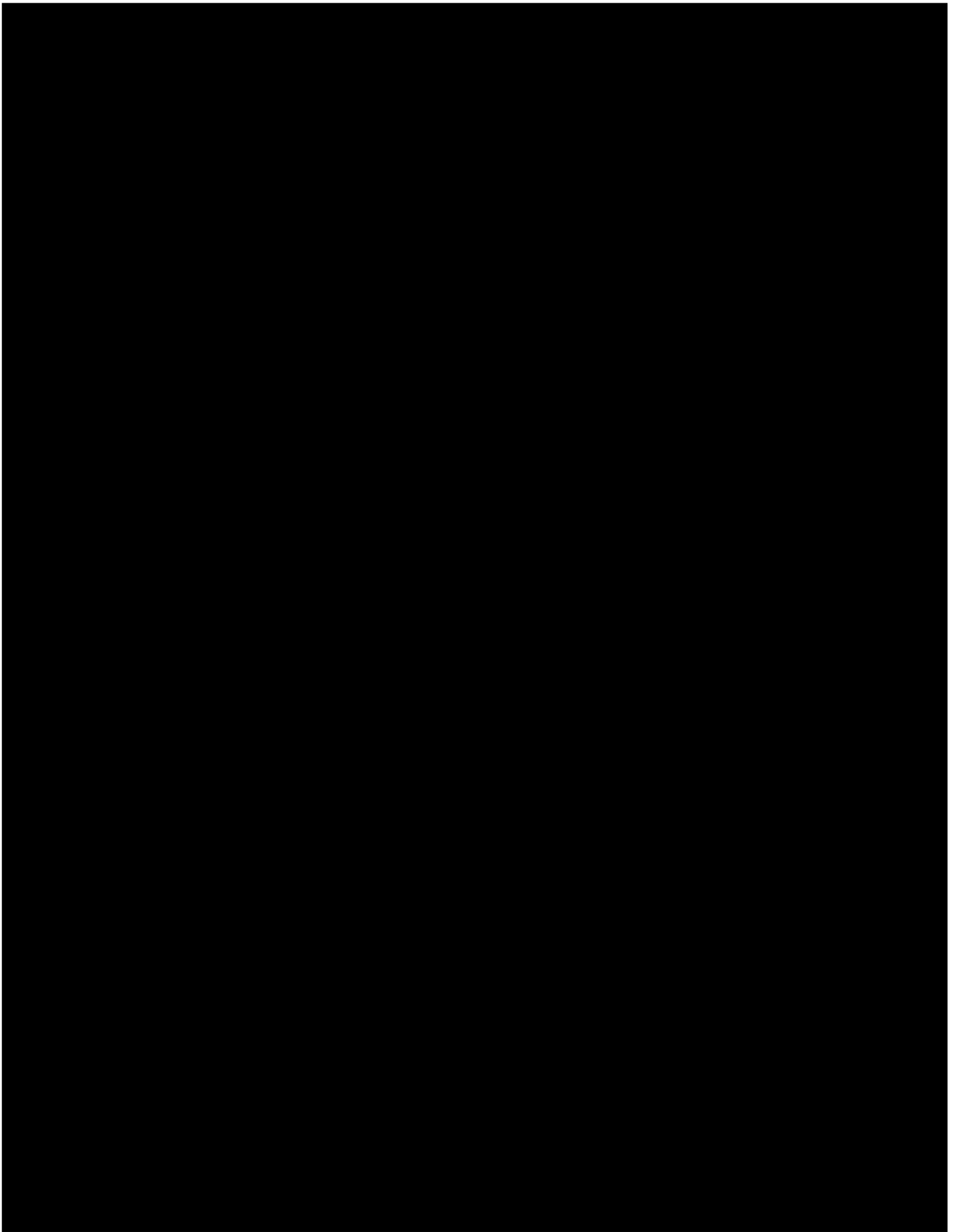
A skilled workforce is critical to meeting infrastructure buildout timelines under the Infrastructure

Act and connecting households across the country to reliable, affordable, high-speed broadband. A well-trained workforce will also allow for the safe deployment of sustainable networks. To meet the workforce needs of the MMG Program, applicants must make appropriate investments to develop a skilled, diverse workforce. Each applicant must provide as part of its application examples of items described in III.J in the NOFO.

This response is limited to 6000 characters as an open field narrative.

ComEd is committed to building a diverse and inclusive workforce prepared to power the needs of more than 9 million people in our service region & prepare for future expected growth that we see for our company and industry. One of the biggest opportunities is the expected growth in green jobs – fueled by new climate action plans brought forward by the State of Illinois in CEJA (Clean Energy Jobs Act), and with historic climate and infrastructure policies at the federal level.

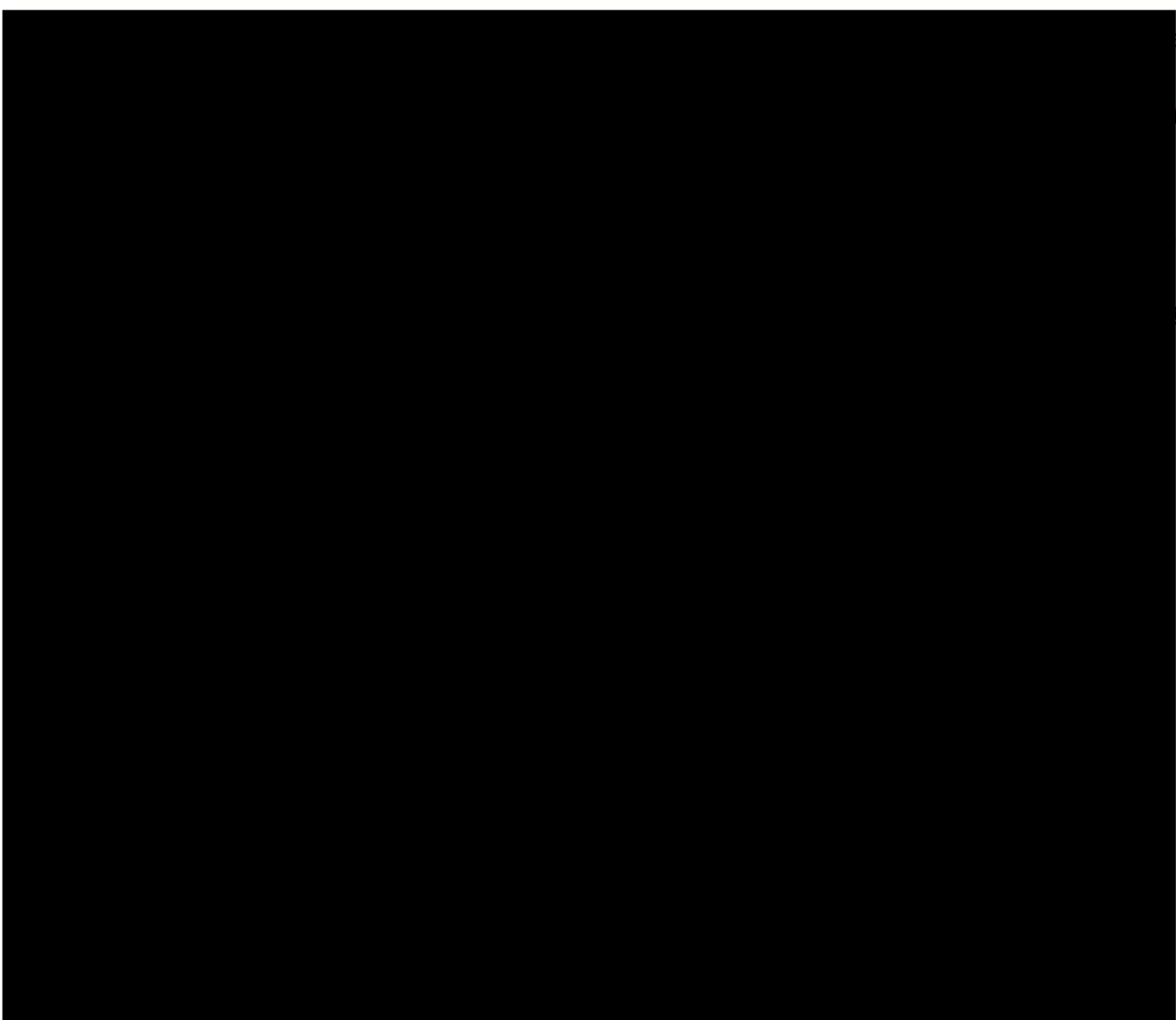




Climate Resiliency

Please demonstrate that the applicant has sufficiently accounted for current and future weather- and climate-related risks to new MMG Program infrastructure projects. In particular, each applicant should clearly demonstrate how it is conducting the items listed in III.K in the NOFO.

This response is limited to 6000 characters as an open field narrative.



ComEd, as an electric utility, builds to critical infrastructure standards and invests in industry leading

standards to ensure safety and reliability not only as materials degrade but to account for changing climate conditions. Approximately [REDACTED] of ComEd's fiber infrastructure within Chicago is comprised of an extensive underground system which is significantly less susceptible to damage from extreme winds, derechos and other frequent local weather hazards. To mitigate risks from extreme precipitation and to account for future projections of rainfall, flooding, and inundation, the underground infrastructure is storm hardened and built to meet or exceed industry leading national standards [REDACTED]

To ensure infrastructure is engineered and constructed to the level of resiliency required for a modern distribution system, a laser-based field tool with integrated GPS is used to capture photographs on site. Pole attributes such as pole height, wire span, and other general field metrics are collected and input to cloud-based pole software to verify measurements, perform structural analysis, and eliminate human error. Engineering design standards require the fiber network ensure N+1 redundancy to account for failure or necessary offline maintenance. This is achieved through redundant connections via fiber path rings and/or routable data fiber pathways which has resulted in 99.99% annual system reliability. Distribution standards are designed around anticipated wire sag/tension to ensure infrastructure is structurally sound during peak winds and storm events.

In anticipation of oncoming storms as reported by the National Weather Service, ComEd deploys personnel to local field and office sites to swiftly prepare for impacts and mitigate any physical and operational outages. ComEd Emergency Preparedness response teams work to restore services quickly and safely to homes and businesses. One of the first priorities in response to storms is to clear debris by cutting, trimming, and removing trees or branches and other safety hazards. A damage assessment is conducted by response crews to determine an Estimated Time of Restoration (ETR). The ETR varies depending on what the on-site crew may find. ComEd prioritizes service restoration in the following order:

1. Affected locations with the largest number of customers
2. Public health and safety facilities
3. Major distribution lines and/or high-density housing
4. Small neighborhoods and individual homes not yet brought to service

Despite a number of extreme weather events in 2020 and 2021, ComEd continues to see improvement of System Average Interruption Frequency Index (SAIFA) metrics with less frequent and shorter outages.

Furthermore, in May 2022, ComEd continues to research the impact of climate change and in

partnership with the [REDACTED]

— — —
Civil Rights and Nondiscrimination Law Compliance

Prior to distributing any MMG Program funding to a prospective awardee, NTIA will require the prospective awardee to agree, by contract or other binding commitment, to abide by the non-discrimination requirements set forth in III.J in the NOFO.

Do you agree to abide by the non-discrimination requirements?

Yes
— — —

Certification of Technical Capability

Each applicant must supply a certification attesting that it is technically qualified to complete and operate the proposed project.

[REDACTED]
Interconnect Policy

The Applicant must describe in detail the nondiscrimination, interconnection, and network management practices that would be adopted for the project facilities. The Applicant should describe how it will comply with nondiscrimination and interconnection obligations, particularly with connectivity to the public Internet and physical interconnection for the exchange of traffic. In addition to describing network management practices, the Applicant should disclose any practices in place to block access to illegal or harmful content.

This response is limited to 6000 characters as an open field narrative.

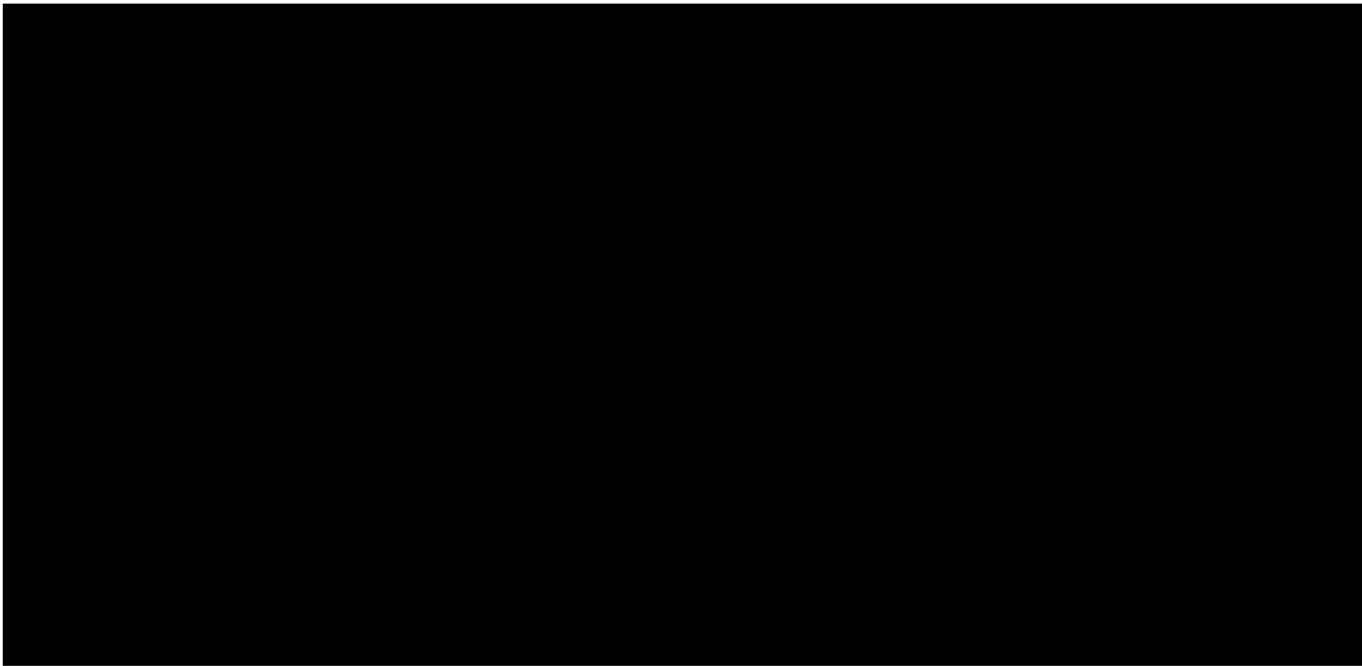
GENERAL PROVISIONS

ComEd's interconnection policy permits open and indiscriminate interconnection along its reserve capacity dark fiber that is part of its communication network and will also do the same for additional capacity that will be supplemented through federal grants.

[REDACTED]



INTERCONNECTION



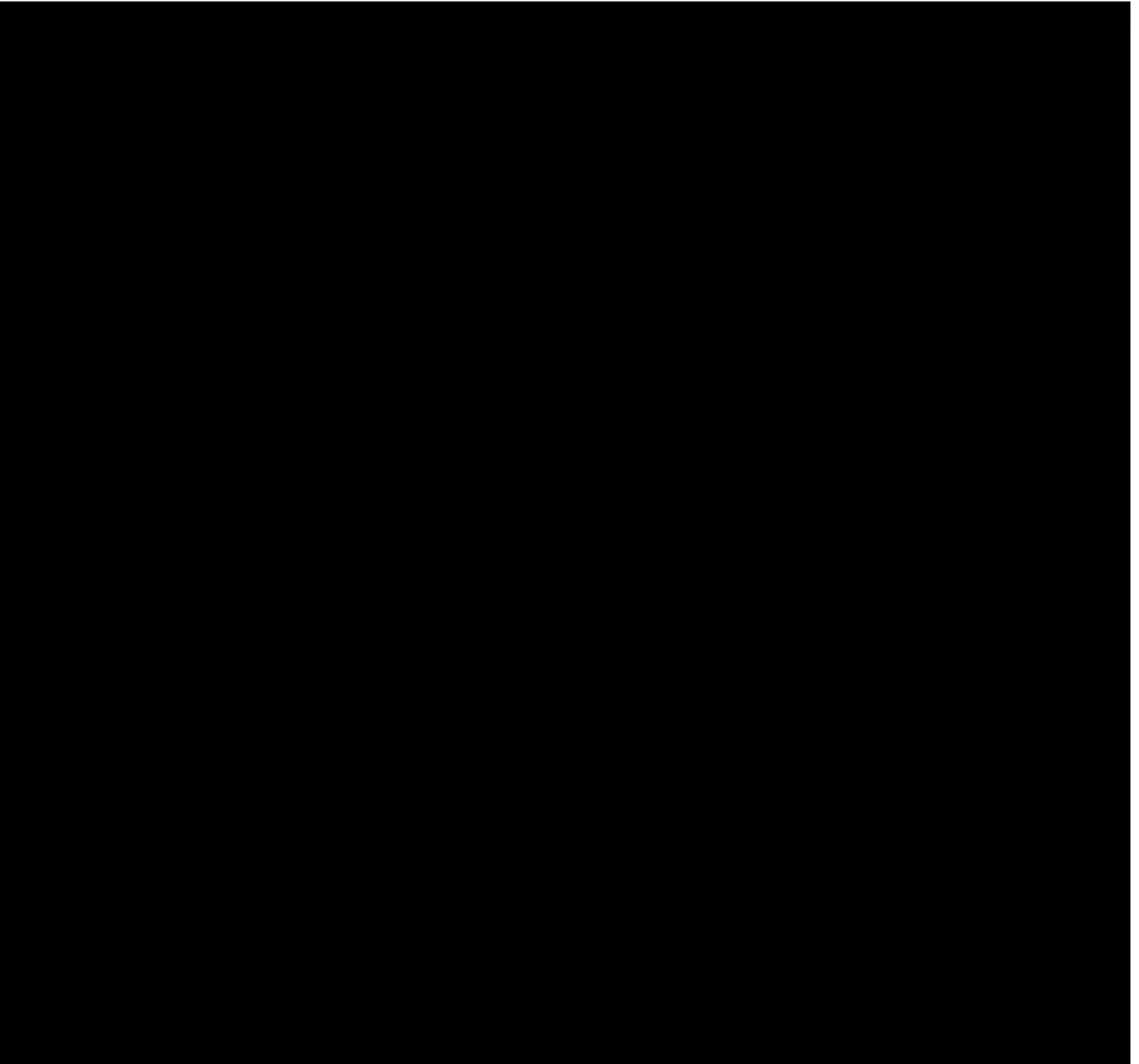
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Technical Overview

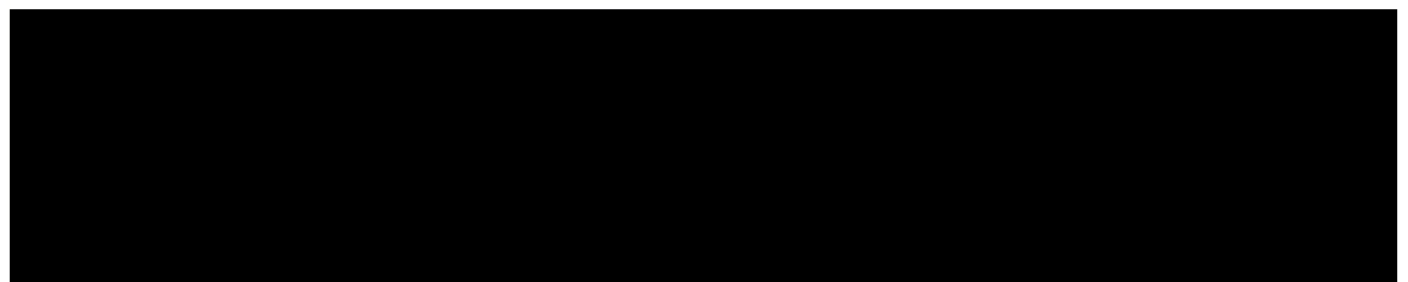
Please describe targeted last mile service objectives, including last mile service provider letters of

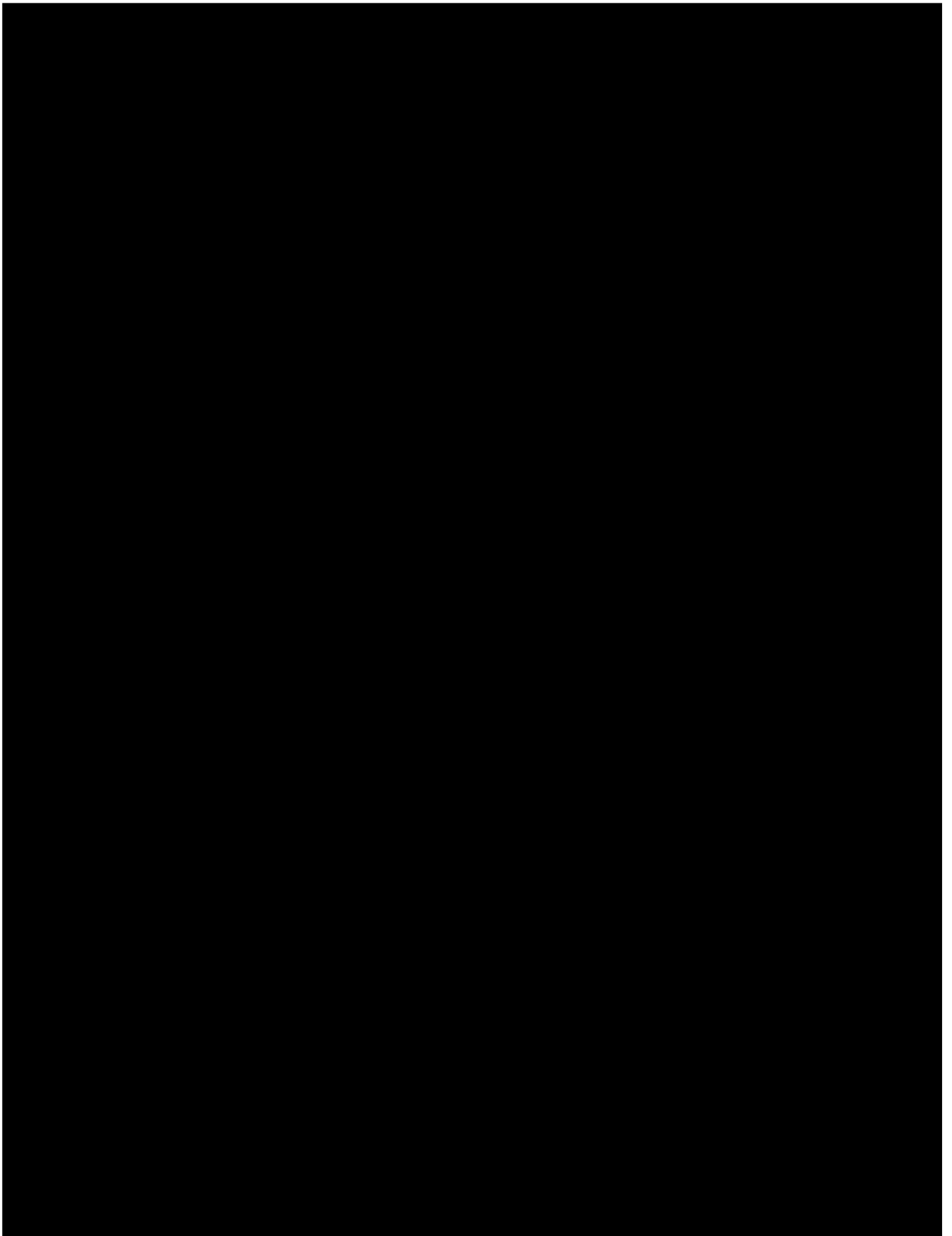
commitment, agreements, or contracts; and a description of the proposed service offerings, including the pricing of the services to be offered over the proposed facility.

This response is limited to 6000 characters as an open field narrative.

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COMED RESPONSIBILITIES

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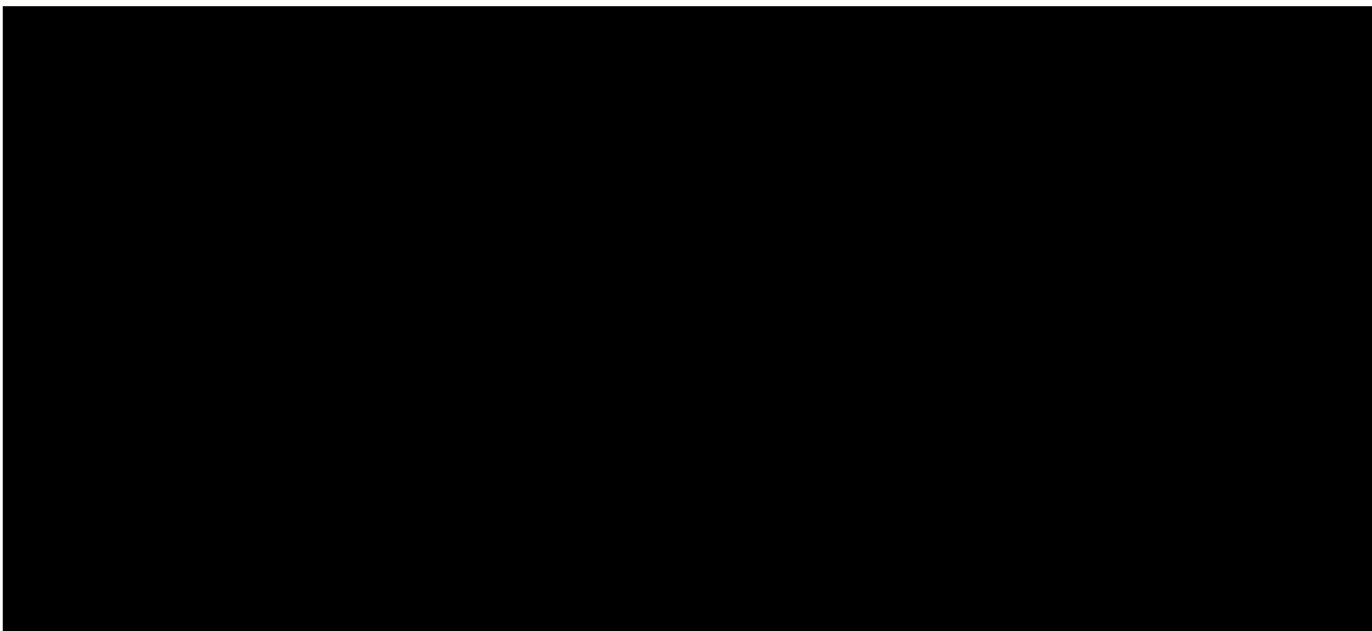
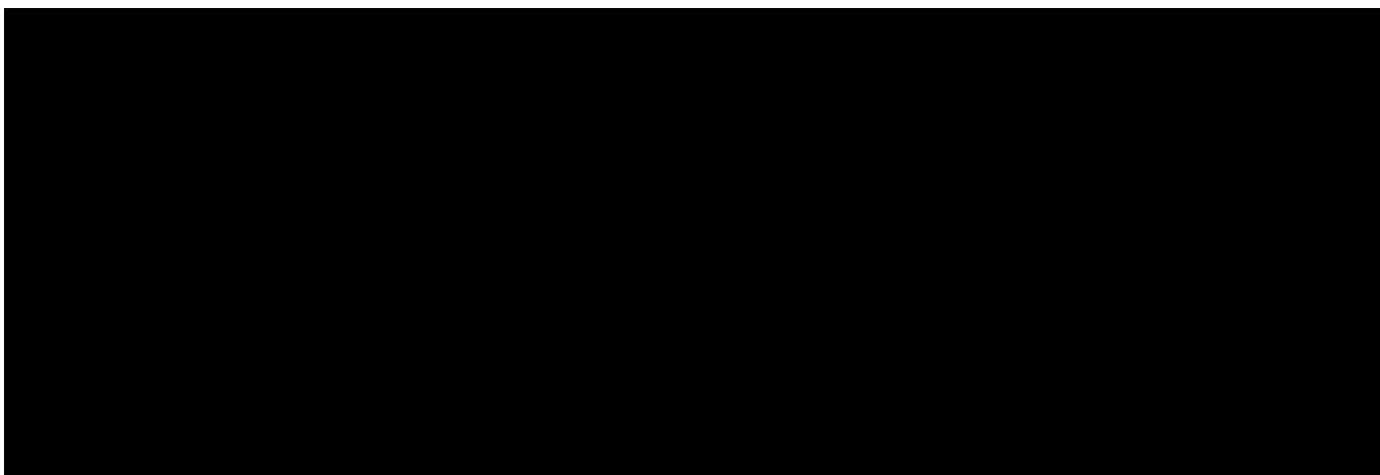
Applicants are encouraged to upload supplemental documentation.



Competitive Landscape

The Applicant should describe existing middle mile offerings in the area, if any, including competitor data if applicable. This should include a description of the proposed service offerings, including the pricing and technology of the services to be offered over the proposed facility. Where possible, Applicant's project should be able to demonstrate a decline in middle mile costs that are likely to flow through to consumer broadband prices.

This response is limited to 6000 characters as an open field narrative.



Applicants are encouraged to upload supplemental documentation.

Type of technology to be used in proposal:

Each applicant of an award to build middle mile infrastructure using fiber optic technology shall certify that the proposed project, upon completion, will include direct interconnection facilities that will facilitate the provision of lit broadband service, at speeds not less than 1 Gigabit per second for downloads and 1 Gigabit per second for uploads to anchor institutions located within 1,000 feet of the middle mile infrastructure, as detailed in the Template CAI below.

Upload Template CAI. Required for Fiber Optic Technology, optional for Wireless or Other.

An eligible entity applying for a middle mile grant may seek, and the Assistant Secretary may grant, a waiver of the requirements set out in the previous paragraph, in full or in part, to the extent the eligible entity demonstrates that the requirement is not technically or economically feasible.

Do you plan to apply for a waiver? If yes, please attach the waiver application in the Application

Workspace, the Application Information section, Required Documents under Required Document Question 4 "Additional Waiver Upload".

No

— — —

Network Route Maps

Applicants should provide a physical network map that includes the following (if applicable):

The Project Area and those unserved and underserved areas which it will enable.

Applicant's pre-existing service area that demonstrates current service levels.

The physical path of the network's transmission medium (e.g., backbone and lateral cable routes, microwave links), transmission type, technology, operating bandwidth, capacity (e.g., dark vs. lit strand count), and cable placement (e.g., aerial, burial) should be displayed.

Points of interconnection (purely passive and non-environmentally controlled nodes, e.g., splice points are optional):

Provider Facilities

Collocation Facilities

Private Interconnection Points with partnering service provider/private network

Wireless towers and associated coverage areas.

Anchor institutions within 1,000 feet, if desired.

Additionally, the maps should delineate between network and facilities that are:

- Part of the Applicant's/key partners' existing network;

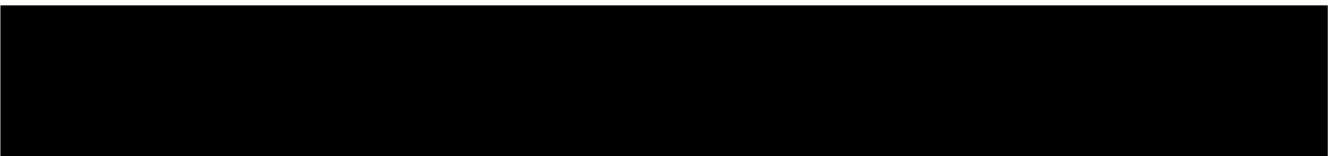
- Proposed as part of this project;

- Leased from a third party;

- Utilized under some alternative arrangement; or

- Relevant to interconnection with either Last Mile or Middle Mile service providers.

PLEASE NOTE: Only ESRI Shapefiles will be accepted and uploaded.



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Data Submission Specification

There is a template "Upload Template Data Submission Specification" which shall be uploaded.

Applicants must complete the table with information for all interconnection points proposed for the

network. This table has three required fields: Point Name, Latitude and Longitude. This should accommodate all of the points of interconnection (passive, non-environmentally controlled points of interconnection, e.g., splice points, may be excluded), collocation facilities, central offices, head ends, and other centralized facilities, network access points to Last Mile service providers, Internet peering points, and towers.



Network Diagram

The Applicant must provide a high-level network diagram to be uploaded for the project that is a representation of the network, capacities, and facilities. The diagram must clearly denote which of the network elements already exist. The diagram should show:

The links between the network nodes. The types of facilities used in connecting the network elements (fiber, wireless microwave, etc.).

The points of interconnection and collocation facilities, including Internet peering points, access to local exchange carriers, central offices, or cable head ends.

The proposed aggregation node facilities that will provide the egress point(s) from the broadband backbone to the networks of the selected service provider(s), named Last Mile service providers, and the selected named Internet Service Provider(s) in the new infrastructure.

The Applicant should show which technologies are used and include bandwidth capacity constraints.



Environmental Narrative

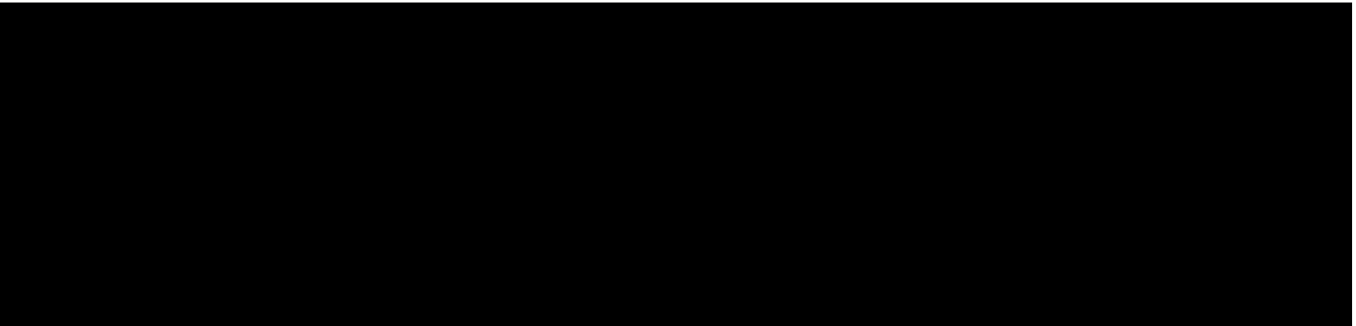
Any project-related activity that may adversely affect the environment must not be undertaken prior to the completion of the environmental review process prescribed by NTIA. Doing so may jeopardize consideration of the application.

All Applicants for MMG projects must comply with the National Environmental Policy Act, the National Historic Preservation Act, and the Endangered Species Act, and other applicable environmental regulations.

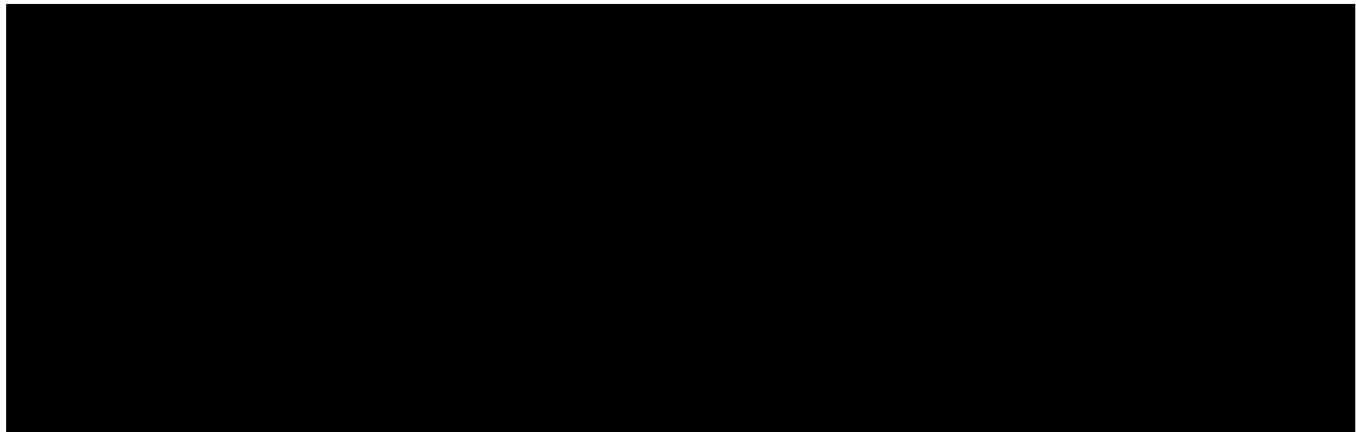
Please provide a service-area environmental description that describes the physical project area and

its surroundings (e.g., disturbed or developed land vs. open space; adjacent natural resources, such as rivers, wetlands, or forestlands; and any protected lands or resources in or near the project area), including site photographs and aerial photographs (e.g., Google Earth or Google Maps images), if the project includes construction and/or ground disturbing activities.

This response is limited to 12000 characters as an open field narrative with image files to be uploaded.

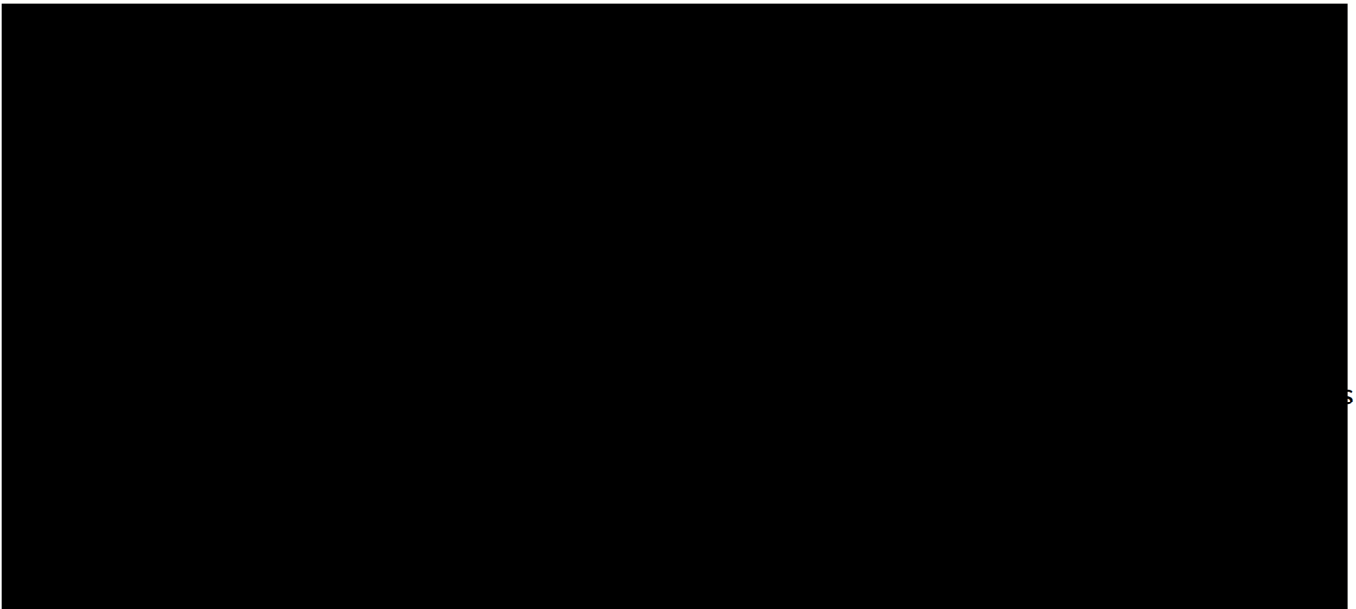


ComEd operates transmission and distribution facilities in both easements and fee-owned rights-of-way in Cook County. The Project area includes both urban and suburban development, shoreline communities, and urban green spaces, which lie on primarily flat terrain. A myriad of natural resources including plainlands, rivers, and lakes can be found within and surrounding the area – including the Chicago River and Lake Michigan.

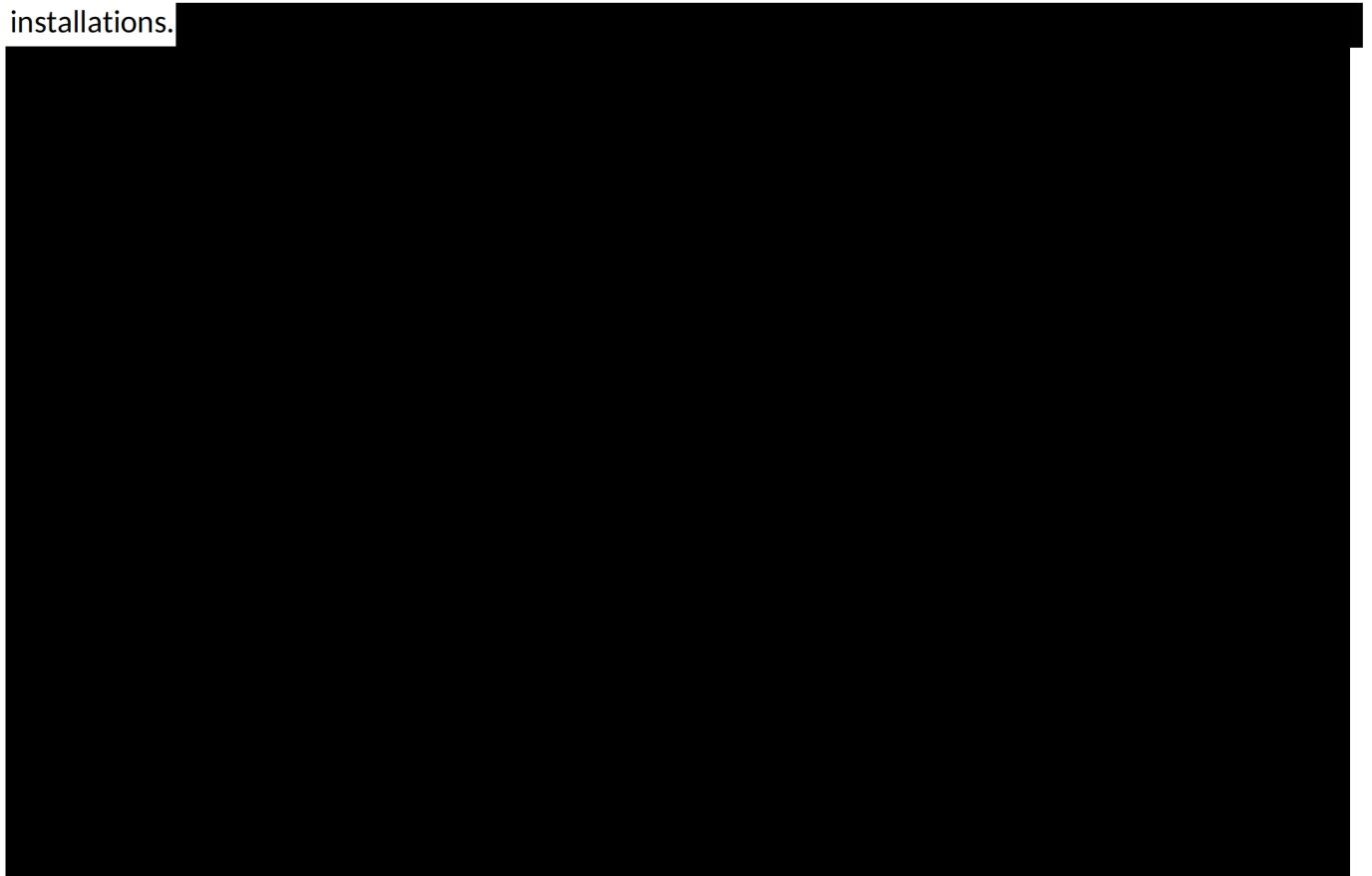



To comply with National Environmental Policy Act, Clean Water Act, Endangered Species Act, etc. and to obtain necessary federal environmental permits, ComEd completes a multi-tiered review process. Initially, all available wetland mapping tools are referenced including internal, local and county wetland inventories, and the U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory. In addition, ComEd reviews soil surveys, mapped floodplain data, and historic and current aerial photographs – some of which are attached. Following deskside review, identified wetlands are examined with streetside views (where available) followed by field evaluation. During field review, all U.S. Army Corps of Engineers (USACE) procedures for completing wetland delineations are followed (1987 USACE manual and August 2010 regional supplement). By using this deskside and field data during project

planning, ComEd can typically avoid or minimize impacts to wetlands, thereby reducing permitting needs and impacts to the environment.

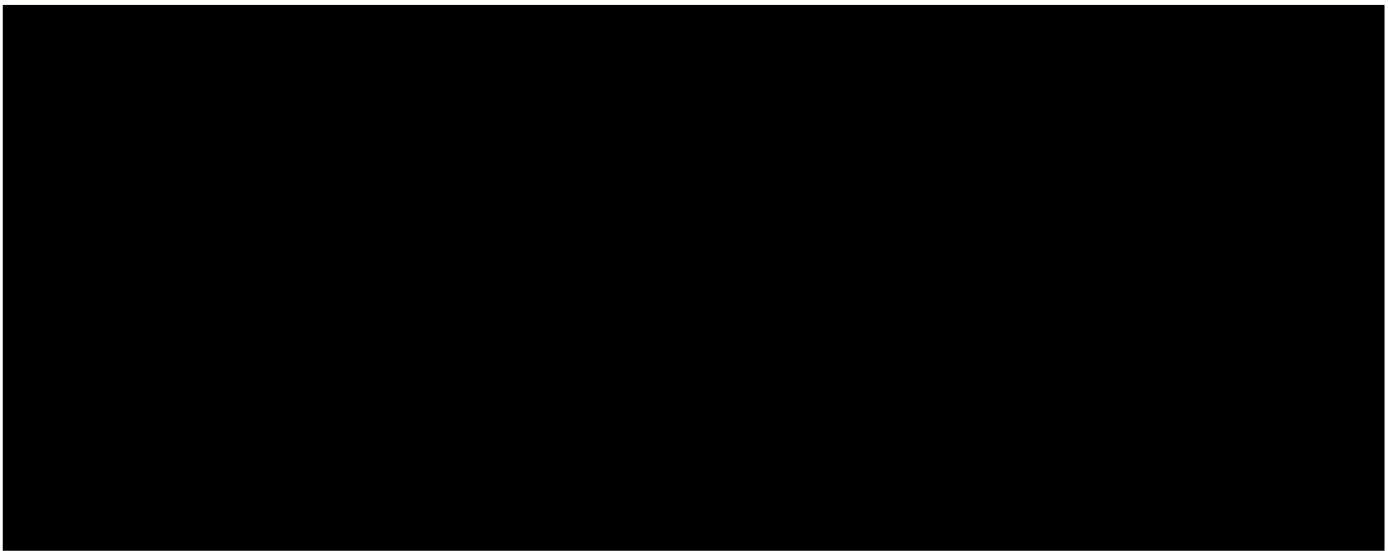
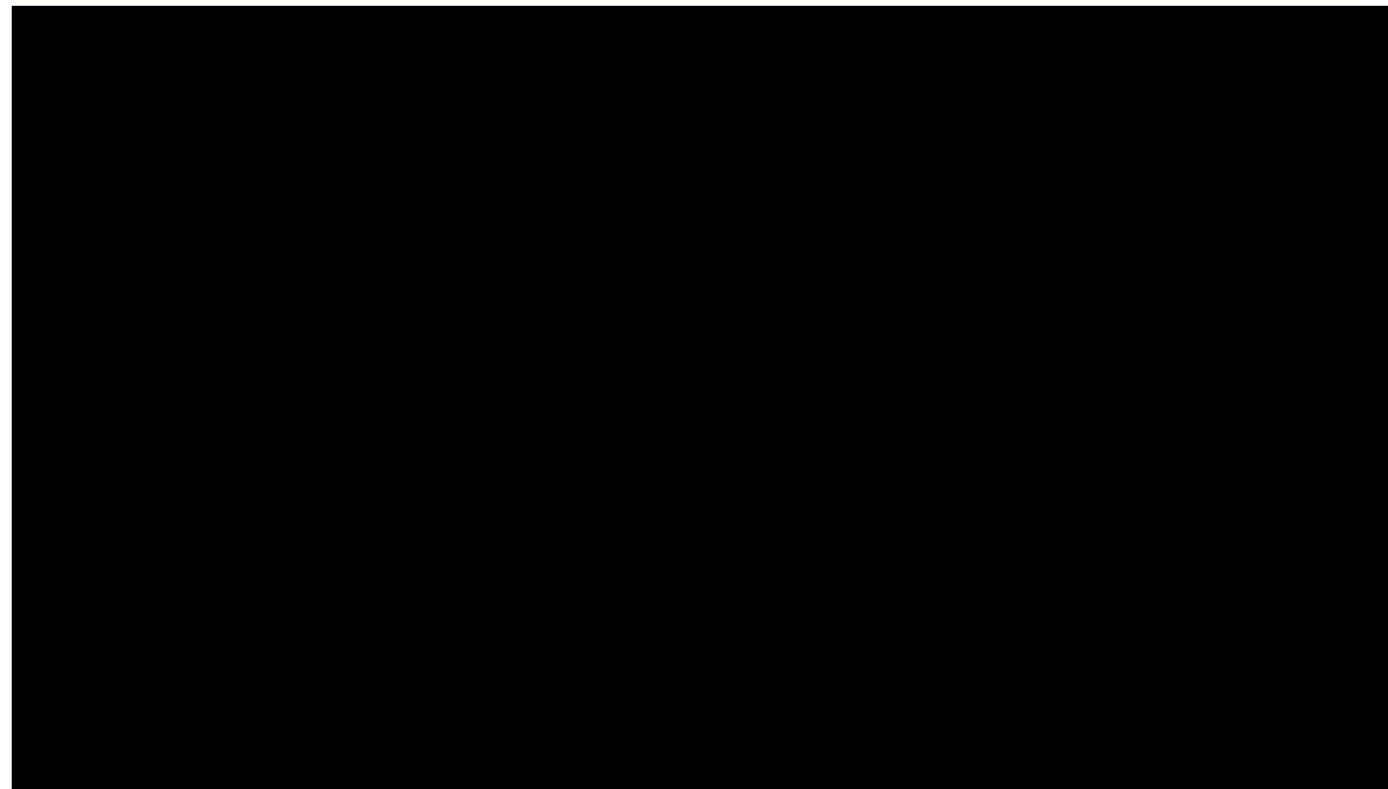


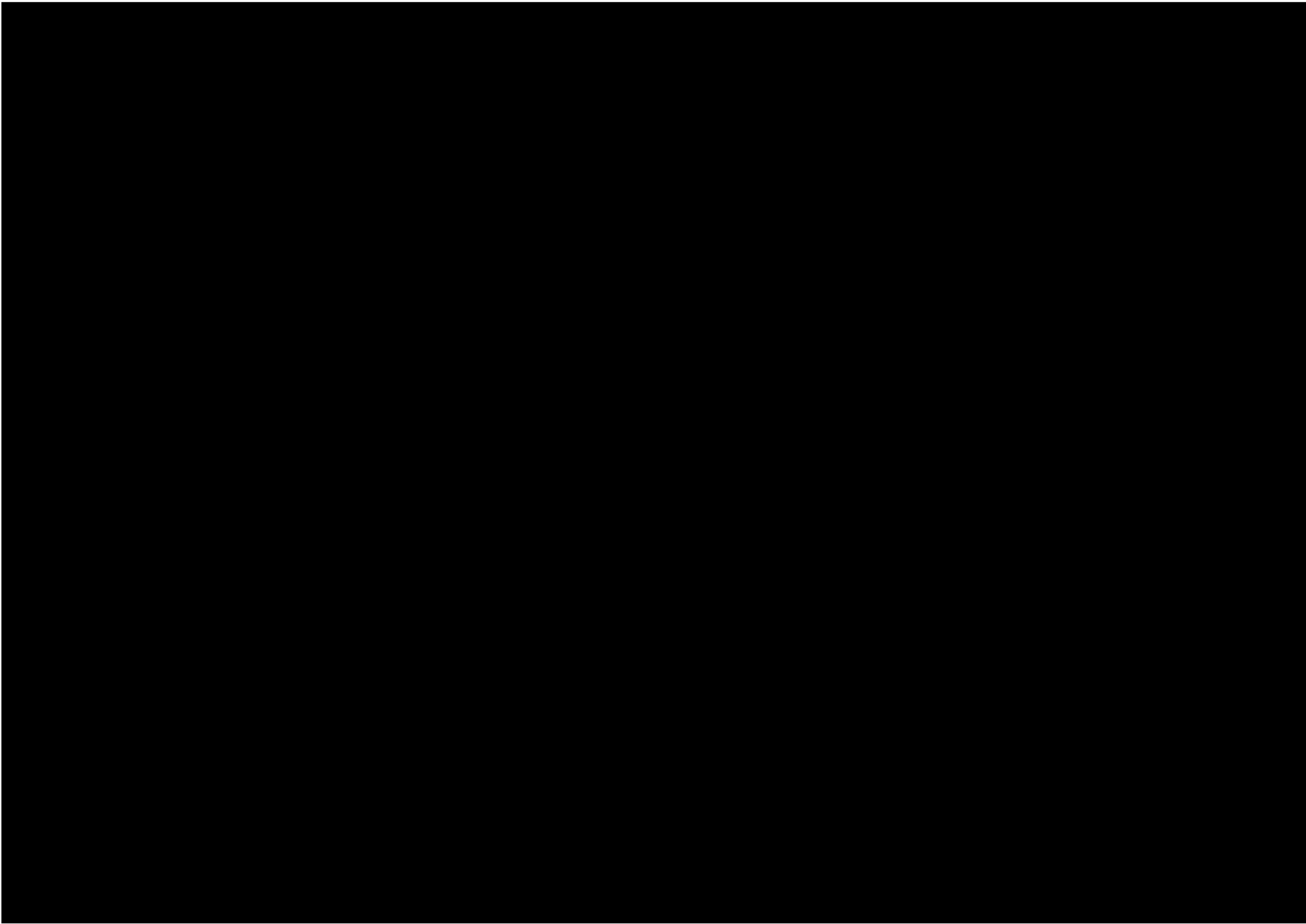
To support the fiber installation proposed as part of the Middle Mile Grant, cable may be installed overhead on existing facilities or underground. The overhead fiber installations may require pole replacements or the installation of new poles to support the cable. Potential wetland impacts related to overhead installations include pole replacements, pole removals with backfill, and new pole installations.



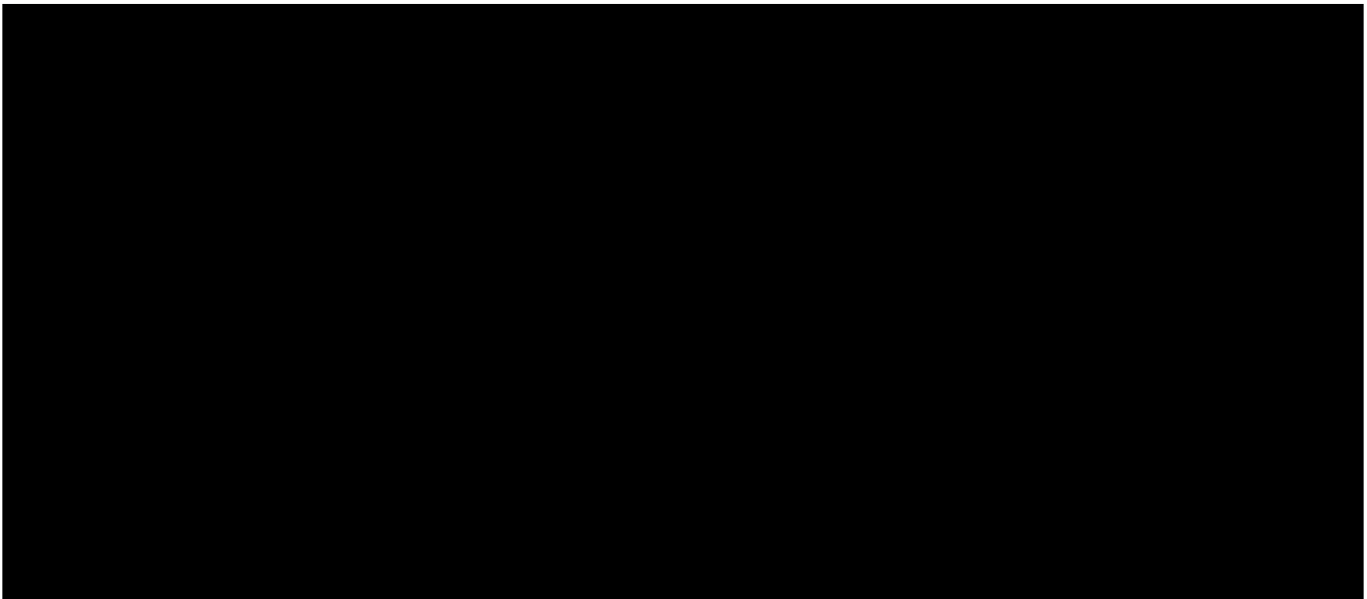


Upon completion of either an overhead or underground cable installation project, regardless of whether the area is in wetland or not, ComEd will restore all areas of disturbance that are not designed to be permanently altered to pre-construction utilizing seed mix appropriate for the surrounding environment and erosion control blanket, where necessary.





Upload Map Images:



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Template Table of Funded Partners and Unfunded Collaborators

List all funded and unfunded project collaborators, including partners, subrecipients, match providers, major contractors/supplies, details on role/scope of work for project. A fillable Template of Funded Partners and Unfunded Collaborators can be found in found in the MMG ZIP folder.



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Certificate of Operational Capability

Each applicant must supply a certification from an officer-level employee (or individual of comparable rank) attesting to the applicant's operational capability to complete and operate the proposed project.

If the applicant has provided a voice and/or broadband internet access service, it must supply a certification from an officer-level employee (or individual of comparable rank) attesting that it has filed FCC Form 477s and the Broadband DATA Act submission, if applicable, to the extent required during this time period and otherwise complied with the Commission's rules and regulations. Alternatively, the applicant must explain any pending or completed enforcement action, civil litigation, or other matter in which it was alleged to have failed to comply with Commission rules or regulations.

If the applicant has operated only an electric transmission or distribution service, it must submit qualified operating or financial reports that it has filed with the relevant financial institution for the relevant time period along with a certification that the submission is a true and accurate copy of the reports that were provided to the relevant financial institution.

If applicable, the applicant must submit a certification from an officer-level employee (or individual of comparable rank) that is has operated a middle mile broadband network for at least two years or that it is a wholly owned subsidiary of such an entity and must specify the number of years the applicant or its parent company has been operating.



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Certification of Financial Capability

Each applicant must supply a certification from an officer-level employee (or individual of comparable rank) attesting that it is financially qualified to meet the obligations associated with a project, that they will have available funds for all project costs that exceed the amount of the grant, and that they will comply with all MMG Program requirements, including service milestones.

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Letter of Credit

During the application process, each applicant must submit a letter from a bank meeting eligibility requirements consistent with those set forth in 47 C.F.R. § 54.804(c)(2) committing to issue an irrevocable stand-by letter of credit, in the required form, to the applicant. The letter shall at a minimum provide the dollar amount of credit offered and the issuing bank's agreement to follow the terms and conditions of NTIA's model letter of credit. NTIA shall publish on its website a model letter of credit substantially similar to the model letter of credit established by the Federal Communications Commission in connection with the Rural Digital Opportunity Fund (RDOF - Rural Digital Opportunity Fund Order, 35 FCC Rcd at 773-77, Appx. C.).

NTIA will ensure, prior to issuing a middle mile grant award, that each eligible entity obtains an acceptable, irrevocable standby letter of credit in a value of no less than 25 percent of the award amount.

Each eligible entity shall provide with its letter of credit an opinion letter from its legal counsel clearly stating, subject only to customary assumptions, limitations, and qualifications, that in a proceeding under Title 11 of the United States Code, 11 U.S.C. § 101 et seq. (the "Bankruptcy Code"), the bankruptcy court would not treat the letter of credit or proceeds of the letter of credit as property of the winning bidder's bankruptcy estate under Section 541 of the Bankruptcy Code.

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Audited Financial Statement (Previous 3 Years)

Each applicant shall submit financial statements from the most recent fiscal year that are audited by an independent certified public accountant. If the applicant is not audited in the ordinary course of business, in lieu of submitting audited financial statements it must submit unaudited financial statements from the three prior fiscal years and certify that it will provide financial statements from the three prior fiscal years that are audited by an independent certified public accountant by an NTIA specified deadline.

*You must provide 3 years of audited financial statements.

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Historical Financial Statements (Previous 3 Years)

Each applicant shall submit financial statements from the three prior fiscal years that are audited by an independent certified public accountant. If the applicant is not audited in the ordinary course of business, in lieu of submitting audited financial statements it must submit unaudited financial statements from the three prior fiscal years and certify that it will provide financial statements from the three prior fiscal years that are audited by an independent certified public accountant by an NTIA specified deadline.

***You must provide 3 years of historical financial statements.**

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Budget Narrative

Applicants will create and submit a budget narrative that adequately describes all proposed activities and costs for their grant-funded project. Applicants must complete the file template, fill in all required information, and upload the file . The file must be uploaded as a Word file, and not converted to a PDF. You can find additional guidance in the MMG Application Guidance.

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Template Detailed Budget Justification

The Detailed Budget Justification spreadsheet must reflect the cost categories that appear on the SF-424 and SF-424C and include itemized calculations for each cost placed under those categories. A fillable Template Detailed Budget Justification can be found in found in the MMG ZIP folder.

— — —
Any other funding provided for this project?

No

— — —
Template Pro Forma

Pro forma financial projection and analysis related to the project's sustainability, inclusive of subscriber (e.g., last mile network connections, other wholesale services), across an eight-year forecast period. A fillable Template Pro Forms can be found in the MMG ZIP folder.



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