Grant Request Number	GRN-000273
Funding Program Name	Middle Mile Broadband Infrastructure Grant Program
Funding Request Name	ENMR Telephone Cooperative - Middle Mile - GRN-000273
Applying Organization	ENMR Telephone Cooperative
Applicant Name	Launa Waller

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?

Telecommunications Cooperative

———

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 - Alan Herman; ENMR Telephone Cooperative; CFO; alanh@plateautel.com
KeyPersonnel_Resume_Alan_Herman

———

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 - David Robinson; ENMR Telephone Cooperative; CEO; drobinson@plateautel.com
KeyPersonnel_Resume_David_Robinson

———

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 - J J Bender; ENMR Telephone Cooperative; Network Operations Manager; jjb@plateautel.com
KeyPersonnel_Resume_J J_Bender

———

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 - Jason Gonzales; ENMR Telephone Cooperative; Chief Technology Officer; jgonzales@plateautel.com
KeyPersonnel_Resume_Jason_Gonzales

———

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 - Jason Gonzales; ENMR Telephone Cooperative; Director of Operations & Technology; jgonzales@plateautel.com
KeyPersonnel_Resume_Jason_Gonzales

———

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 - Launa Waller; ENMR Telephone Cooperative; Chief Executive Officer;
LaunaW@plateautel.com
KeyPersonnel_Resume_Launa _Waller

———

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 - Launa Waller; ENMR Telephone Cooperative; Regulatory Manager;
lwaller@plateautel.com
KeyPersonnel_Resume_Launa_Waller

———

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 - Rafael Laumbach; ENMR Telephone Cooperative; Business Development Manager;
rlaumbach@plateautel.com
KeyPersonnel_Resume_Rafael_Laumbach

———

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 - Regan Williams; ENMR Telephone Cooperative; Chief Operations Officer; ReganW@plateautel.com
KeyPersonnel_Resume_Regan_Williams
———

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 - Regan Williams; ENMR Telephone Cooperative; OSP Engineering and Construction Manager; reganw@plateautel.com
KeyPersonnel_Resume_Regan_Williams
———

Organizational Charts

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

ENMR Telephone Cooperative Corporate Structur-09-23-2022 09-58-ENMR Telephone Cooperative-GRN-000273.pdf, Reconnect Org Chart 9 26 22-09-26-2022 06-24-ENMR Telephone Cooperative-GRN-000273.pdf, ENMR Revised Personnel Org Chart 04 2023-04-06-2023 05-08-ENMR Telephone Cooperative-GRN-000273.pdf
———

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.

ENMR Telephone Cooperative's (ENMR's) experienced staff has been operating all aspects of its current middle mile network for over 10 years, including network operations, sales, construction, procurement, outside plant maintenance, and the support and care for middle mile and wholesale customers. The executive team consists of Launa Waller, the Chief Executive Officer, who has been in telecom for 27 years and will be responsible for the overall success of the proposed project. Alan

Herman, Chief Financial Officer, has 17 years of telecom experience and will be responsible for ensuring the project remains within the budget established in this application. Jason Gonzales, Chief Technology Officer, has 30 years of telecom experience and will be responsible for high level oversight and project coordination. Regan Williams, Chief Operations Officer, has 32 years of telecom experience. Jon Bender, Networks Operations Manager has 30 years of telecom experience. Mr. Williams and Mr. Bender will be responsible for contractor oversight and equipment procurement and ensure that only appropriately trained and credentialed company staff work on the project. Rafael Laumbach, Business Development Manager, has 27 years of telecom experience and will be responsible for marketing, sales, and advertising of the expanded network capacity to new and existing wholesale and middle mile customers. ENMR anticipates no changes in operational policies. The resumes of the executive team are uploaded with this application and demonstrate their expertise.
NTIA awarded ENMR two Broadband Technology Opportunities Program (BTOP) awards. Baca Valley Telephone Co. Inc. (Baca Valley) and Delcom, Inc. (Delcom) were subrecipients of the BTOP grants. With the first BTOP grant, ENMR lit a more than 1,600-mile fiber ring and constructed 74 miles of fiber to five communities. The second grant enabled ENMR to construct 189 miles of new fiber and use 418 miles of existing fiber to create a middle mile network spanning central and eastern New Mexico and parts of western Texas. Between 2017 and 2022, ENMR deployed 2,665 miles of fiber in projects valued at $100,938,924. So far in 2022, ENMR has deployed 193 miles of fiber.
Construction for ENMR's ReConnect Round 1 and ReConnect Round 3 projects are in different stages of their construction schedules and ENMR is managing contractors and sub-contractors to keep them on track. ENMR knows how to work with government agencies to document the project, meet the grant requirements, maintain all documentation, and has the financial maturity to fund its portion of the project costs. If awarded, ENMR will incorporate the middle mile construction timeline into its existing activities, maximize efficiencies, and minimize unnecessary costs.
In this application, ENMR leverages existing resources, provides alternate paths, and upgrades aging equipment. ENMR proposes a $103,401,269 project with an in-kind contribution of $53,542,434 (51.78%), and a grant request of $49,858,835. Baca Valley and Delcom are subrecipients contributing to the in-kind match for this project. Their locations in the far northern and southern regions of the middle mile network enhance the effectiveness of ENMR's proposal. This project would create critical alternate paths to increase reliability and resiliency and increase the bandwidth capacity for ENMR's entire middle mile network serving New Mexico and west Texas. The project consists of five new fiber segments (155.5 route miles), two dedicated dark fiber strands for a total of 2,250.84 route miles, and upgrades to 53 equipment locations, including 38 dense wavelength-division multiplexing (DWDM) interconnection nodes. The DWDM upgrades will increase the capacity of the fiber network from up to 800 Gbps to up to 16 Tbps providing much needed capacity to both urban and rural end-users as well as cost-effective wholesale services. The project will also add six redundant core routers and 17 redundant routers. Upon successful completion of the middle mile grant project in this application, ENMR, Baca Valley, and Delcom will own the assets.
ENMR, and or any related companies as identified on the supplied organizational chart, is not a foreign entity nor is it owned or controlled by a foreign entity. In accordance with 47 C.F.R. §1.2112 (a) ENMR would like to disclose applicable ownership information. ENMR is the applicant, Delcom and Baca

Valley are subrecipients. ENMR and Dell Telephone Cooperative (Delcom is a wholly owned subsidiary of Dell Telephone Cooperative) are telephone cooperatives that are 100% owned by their memberships. ENMR is headquartered in Clovis, NM. Dell Telephone Cooperative is headquartered in Dell City, TX. Baca Valley is a domestic corporation. Shareholders, all of whom are US citizens, with more than 10% of common and voting stock are: [redacted] Their address is PO Box 67, Des Moines, NM 88418.
ENMR owns 100% of Plateau, an FCC regulated entity whose principal business is communications and attests that the following sections are not applicable, 47 C.F.R. §1.2112 (a) (2), (3), (4), (5), and (6), and as a result has no data to provide. Delcom further attests that the following sections are not applicable, 47 C.F.R. §1.2112 (a) (2), (3), (4), (5), (6), (7), and as a result has no data to provide. Baca Valley owns 100% of Sierra Communications, an FCC regulated entity whose principal business is telecommunications equipment sales and service and attests that the following sections are not applicable, 47 C.F.R. §1.2112 (a) (3), (4), (5), and (6), and as a result has no data to provide.

———

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.

Form CD-511-ENMR Telephone Cooperative-GRN-000273.pdf, CD-511 Certification NTIA 2022-10-20-2022 06-59-ENMR Telephone Cooperative-GRN-000273.pdf

———

SAM.gov Registration

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

ENMR SAM.GOV Registration.png-ENMR Telephone Cooperative-GRN-000273

———

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.

Introduction
In 2012, ENMR Telephone Cooperative (ENMR), along with its subrecipients Delcom, Inc. (Delcom) and Baca Valley Telephone (Baca Valley), created a regional middle mile network funded by NTIA's

Broadband Technology Opportunities Program (BTOP)providing up to 800 Gbps of capacity. However, subscriber demands have increased dramatically over the last 10 years. The network's current equipment has passed its useful life and the manufacturer no longer distributes upgrades. Additionally, several fiber segments remain only partially redundant. Constructing additional fiber routes would not only improve redundancy, but also decrease latency to these segments of the network.

The proposed project includes new fiber segments to improve redundancy and decrease latency and upgrades to transport electronics throughout eastern New Mexico and west Texas. The transport electronics upgrades involve a combination of dense wavelength division multiplexing (DWDM), reconfigurable optical add-drop multiplexer (ROADMs) nodes, and redundant routers. Installation of DWDMs and ROADMs will result in network capacity that is 20 times greater than the current equipment provides.

ENMR's project plan leverages existing assets by including dark fiber (contributed as an in-kind match by ENMR, Baca Valley, and Delcom), which decreases construction costs and increases middle mile bandwidth throughout the network. Using existing assets also reduces supply chain issues for the project and minimizes associated logistics costs. Additionally, ENMR and its subrecipients plan to utilize their existing central office (CO) and hut assets to install and operate newly proposed transport electronics obviating the need to construct new COs and huts, further mitigating construction costs.

Advancement of NTIA Key Priorities

ENMR's proposed project aligns with the key objectives in the Middle Mile NOFO. The project addresses a gap in New Mexico's middle-mile infrastructure by creating alternative paths and increasing resiliency and bandwidth through transport electronics upgrades and new and contributed fiber routes. The alternate paths and increased bandwidth should attract more last-mile providers to the unserved and underserved end-user locations along the routes. ENMR expects the expanded network capacity to increase competition in the fiber-to-the-premise (FTTP) end-user market through reduced operating costs for last-mile providers. ENMR's proposed project also creates redundancy between two of New Mexico's largest population centers Santa Fe and Albuquerque in the current middle-mile network. The proposed diverse paths provide redundant connections into Albuquerque, the most significant point of presence (POP) in the region used to connect to Tier 1 carriers. The less populated towns of Raton and Maxwell, New Mexico in Baca Valley's service area will benefit from a new high-capacity DWDM node. The equipment in the middle mile nodes is aged, operating at its maximum capacity, and is unable to keep up with the exponential growth in end-user demand.

The project also extends broadband infrastructure to areas without access to last-mile high-speed terrestrial broadband providers. A map showing unserved and underserved areas is uploaded with this application.

The DWDM, router equipment, and fiber routes will increase the overall capacity of the network from 800Gbps up to 16Tbps, resulting in fewer incidents of lost or degraded service due to congestion. ENMR anticipates lower maintenance costs with new equipment, the ability to upgrade electronics to meet customer demands and keep up with changes in industry standards, and lower energy usage. The proposed project will also increase broadband upload and download speeds for end-users and allow more ISP providers to participate in the market at a lower cost since there will be more capacity

available.

The route does not cross any tribal lands. ENMR will utilize the U.S. Fish & Wildlife Information for Planning and Consultation (IPaC) tool to review the project areas for impacts to endangered species and develop construction plans to minimize any impact. ENMR is well versed in the federal and local permitting processes and has included time in the construction schedule to account for the acquisition of necessary permits.

The proposed new fiber segments will pass within 1,000 feet of 63 community anchors including schools, hospitals, fire departments, libraries, and city, county, state, and federal government locations. In addition, the equipment upgrades will provide improved broadband services to hundreds of other community anchor institutions throughout eastern New Mexico and west Texas, many already served by ENMR, Baca Valley, and Delcom.

In June 2020, the Office of Broadband in the New Mexico Department of Information published a Strategic Plan and Rural Broadband Assessment. ENMR's proposed project aligns with recommendations published in 2020, including designing a future-proof scalable infrastructure; offering a fiber-based rural solution for longevity, impact, and long-term value; and leveraging federal broadband funding. In 2021, NM Senate Bill 93 created the OBAE and required it to develop a three-year statewide broadband plan by January 1, 2023. OBAE has not yet published the statewide plan.

The service area for the proposed project consists of 29 New Mexico and 20 Texas counties. Because the project area spans a sizable portion of the region, according to US Census Bureau data, the total affected population is 3,394,513. The region's demographics are wide-ranging and diverse, signaling unique needs and uses for broadband services. Counties with exceptionally low population densities and low revenue potential for ISPs may have difficulty attracting competitive providers. People in high-poverty areas and lower-income households need reliable internet to access government services and engage in job-seeking activities. Younger and older people need reliable high-speed broadband to stream remote learning sessions and telehealth services.

- The population densities in the region vary from 0.1 per square mile (Loving County, Texas) and 0.3 (Harding County, New Mexico) to 582.5 (Bernalillo County, New Mexico) and 854.4 (El Paso County, Texas). The population density in New Mexico is 17.5, in Texas is 111.6, and 93.8 for the nation.
- The highest median household income is $119,266 (Los Alamos, New Mexico) compared to $69,004 in Yoakum County, Texas). The lowest median household income is $29,458 (Mora, New Mexico) and $31,505 (Hudspeth County, Texas). The median household income for New Mexico is $51,243, for Texas is $63,826, and $64,994 for the nation.
- The county with the highest percentage of persons in poverty is McKinley New Mexico (32%) and Hudspeth County, Texas (24.20%). New Mexico has 16.8% of persons in poverty, Texas has 13.4%, and the country has 11.6% of persons in poverty.
- In Lea County, New Mexico, 30.00% of the population is under 18 years of age; in Catron County New Mexico, 42.50% of the population is over 65 years of age. In Loving County, Texas 40.40% of the population is under 18 years of age; in Culberson County, Texas, 20.80% of the population is over 65 years of age.

Key Partners/ community support

ENMR has been working with Baca Valley and Delcom to develop the communications infrastructure in this area since 2011. These two small local companies, committed to improving broadband service to their rural customers, are subrecipients who wrote letters in support of the proposed project. Baca Valley and Delcom express their commitment to using the proposed middle mile network and believe it will strengthen customers' access to reliable, high-speed broadband services in New Mexico. They state that the lack of accessible, affordable middle mile fiber in New Mexico has prevented the expansion of FTTP services. The companies recognize the potential to have access to more affordably priced middle mile service ability to deliver higher broadband speeds to last-mile customers and the option to connect all anchor institutions with symmetrical 1Gbps service as benefits to the project. State Representative Jack Chatfield supports ENMR's application stating that the lack of accessible, affordable middle-mile fiber in New Mexico has prevented the expansion of fiber to the premise services. State Senator Pat Woods also supports the application, specifically the potential to deliver higher broadband speeds to New Mexico residents. Senator Woods states that the option to connect all anchor institutions to 1/1 G service is necessary. In explaining their support, members of the New Mexico Congressional Delegation (Delegation) note that the lack of accessible, affordable middle-mile fiber in New Mexico has prevented the expansion of FTTP services. The Delegation goes on to say that New Mexico has the highest percentage of residents in the Southwest without adequate broadband internet service, with 22% of New Mexico residents not having access to adequate broadband infrastructure and nearly 70% having to rely on only one Internet Service Provider. The Delegation quotes recent NTIA data showing that in at least five out of 33 New Mexico counties, more than 40% of households do not have internet access at all.

Financial Viability

ENMR has designed this project using financial and engineering expertise to be prudent, durable, scalable, and flexible. The design combines five segments of new build, two strands of dark fiber as in-kind match, and upgrading equipment in existing central offices. ENMR used a market value approach to calculate the in-kind match. Factors included in the in-kind value calculation are: the fact that the fiber has a long functional life (35+ years) relative to its economic depreciation life; replacement costs would be significantly inflated from the original book values for these assets; and on many of these routes these fiber cables are the only fibers in place, further increasing their market value relative to other routes where there are competitive dark fiber providers. Re-equipping existing nodes and the contributed dark fiber greatly reduces the project cost, minimizing construction, labor costs, and time to completion.

The NTIA Middle Mile Grant funding is needed to implement the proposed project because ENMR cannot support the cost of the project for the full amount of the capital. The middle mile grant makes this project feasible and is cash flow positive in 2023. ENMR is projecting to generate revenues from wholesale customers, including its own ISP, connections to cell towers, and numerous anchor institutions. With over half of the total project costs covered by in-kind contributions, ENMR is in a unique position to ensure the project will be completed without the need to secure any additional debt; positive returns and sustainability are ensured over the life of the fiber.

Without the middle mile grant funding, this project would no longer be economically feasible. Without

this funding, ENMR would have to cover the cost of the entire capital expenditure. Under these circumstances, the Net Present Value would be negative after the 20-year depreciable life of the assets. The company would have to make additional capital investments for replacement plant without ever realizing a return on the initial investment. It would not be feasible to build the project without recovery of the capital investment spent, eliminating the possibility of its ISP, other wholesale and middle mile customers and end-users benefiting from lower-cost middle mile connections.

———

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.

Competitive Landscape

There are seven middle-mile providers and four Tier 1 carrier networks in New Mexico, connecting to each other and last-mile providers through ENMR's network. ENMR's network directly connects to Tier 1 providers in Albuquerque, El Paso, Amarillo, and Lubbock. ENMR's open access network is available on a non-discriminatory basis delivering high-capacity broadband, ethernet, transport, middle mile, and backhaul services. The wholesale market operates on an extremely competitive basis, and there are no published rates for these services. Research indicates that prices for IP transit per Gbps in New Mexico can vary from about $307 to $1,251 based on distance, interconnection point, connection size, availability, and capacity.

Why and How Current Service is Insufficient

The electronic equipment in ENMR's current middle mile network has reached the limit of its useful life. The manufacturer no longer supports the equipment, leaving ENMR without a clear way of restoring the services in case of equipment failures. Additionally, the manufacturer no longer provides software upgrades for this equipment, leaving the equipment vulnerable to security impacts. Most importantly, the capacity of the equipment has reached its maximum. While equipped with 80 channels of dense wave division multiplexing (DWDM), each channel is optimized for only 10 Gbps capacity. That is no longer sufficient to provide relevant interconnections to dedicated internet access (DIA) and last-mile providers. Current ISPs that are purchasing dedicated internet access derived from the existing network include 9 regional providers interconnecting to the network in Albuquerque, Las Vegas, Wagon Mound, Clayton, Roswell, Corona, El Paso, and Socorro. The Cisco Annual Internet Report shows that broadband usage is growing at an approximate 20% compound annual growth rate before the addition of any new subscribers. ENMR's goal is to provide quality broadband service to as many subscribers, ISPs, and community anchor institutions (CAIs) in the service area as possible. The equipment upgrades in this project will support end-user demand as the number of subscribers continues to grow.

Three mobile wireless providers have requested upgrades to 100 Gbps ethernet capacity within three years for cell site backhaul and the ability to scale individual cell sites up to 10 Gbps within 30 days of a request. ENMR has quoted 100 Gbps service out of another of its internet exchange points that impact mission-critical services for federal facilities. ENMR is already providing various wholesale transport services to Cannon Air Force Base, Kirtland Air Force Base, and Holloman Air Force Base and anticipates circuit requests to soon exceed the capacity available on its current transport system. The proposed network upgrade will ensure that robust transport capacity is available for many federal institutions in New Mexico and west Texas that contributes to national security. The network's redundancy is threatened by the 2026 expiration of a nonrenewable IRU route spanning the western edge of ENMR's network. The IRU runs 505.44 miles from Springer to Santa Fe to Albuquerque and from Socorro to El Paso. There is an incomplete fiber ring creating a single point of failure in the Delcom service area between Kermit and Jal.

Several mobile carriers have requested additional circuits for cell-site backhaul that ENMR cannot deliver without this build. There are approximately 8,000 rooftops in the East-mountains corridor, adjacent to Albuquerque, the majority of which do not have access to fiber broadband services.

How ENMR's Project Meets the Need

ENMR's project will dramatically enhance capacity for the entire network, install redundant routes, and enable 1 Gbps x 1 Gbps last-mile broadband services. ENMR proposes to replace aging DWDM equipment that has reached its design capacity. The project plan increases capacity for fiber segments between 38 DWDM add/drop nodes from up to 800 Gbps to up to 16 Tbps. The in-kind contribution provides additional paths that replace the nonrenewable IRU agreement and expands the capacity well beyond the current IRU. The construction of four new segments (Four-Hills to Santa Fe, Tijeras to Chilili to Manzano, Edgewood to Tijeras, and Belen to Lemitar) also add redundancy to the network and a fifth new segment (Jal to Kermit) closes a gap in Delcom's fiber ring. This proposed project has the potential to increase bandwidth for approximately 35 last-mile providers (including Tier2 and Tier3 wireline carriers and wireless ISPs), speeds for 63 anchor institutions along the new fiber routes and increase the capacity at interconnection points. These improvements to the network should result in cost savings for last-mile service providers and their subscribers.

The proposed equipment will be optimized for 400 Gbps per channel and equipped with 42 distinct channels for a total capacity of 16 Tbps. These upgrades will relieve congestion in the network and position ENMR to provide increased capacity to government, businesses, and residential customers along new last-mile fiber routes, as well as provide for more relevant 100 Gbps and 400 Gbps interconnects to the other carriers. The equipment upgrades will increase capacity for 5G services and increase cell service coverage areas. The new fiber route also increases ENMR's capacity to provide wholesale middle mile access to end-user anchor institutions, businesses, and unserved and under-served locations through the East-mountains corridor.

Through additional bandwidth, the project area will become economically feasible for last-mile providers. They will have more options for interconnection sites closer to their last-mile target locations, saving them miles of construction costs. ENMR's project should attract more last-mile

providers to the central and eastern New Mexico region, giving end-users more choices for broadband service and increasing the downward pressure on retail prices. The proposed infrastructure will connect last-mile networks that provide or plan to provide broadband service to households in unserved areas.

Proposed Network

ENMR proposes to enhance its existing middle mile network using an in-kind match consisting of 2,250.84 miles of two fiber strands, 155.5 miles of new fiber construction, and upgrading 53 DWDM nodes including amplifier sites. The fiber routes will complete high-capacity rings on the eastern side of ENMR's network and secure redundant paths for traffic between Albuquerque and Santa Fe. Buried fiber provides the most future proof and environmentally resistant technology for middle mile infrastructure because the cable is placed once, and capacity can easily be increased through the addition of electronics. Wholesale providers will be able to interconnect with ENMR nodes throughout central and eastern New Mexico. These nodes will enable last-mile provider access to most premises in the area. The network is designed so 1/1 Gbps service can be provided to 63 anchor institutions within 1,000 feet of the new fiber routes. ENMR's design presents the best technological option because it eliminates existing short-term constraints, optimizes the use of existing outside plant, and accounts for ongoing changes in broadband technology.

Proposed Services and Pricing

ENMR's existing wholesale and middle mile services include: Dedicated Internet Access - providing route diverse connectivity (100 Mb to 10 Gb) to four of the world's largest Tier 1 internet providers; Co -Location - disaster recovery and off-site storage needs with battery backup and generator power; Wave Services - point-to-point private network transport from 10 Gb to 400 Gb speeds between customer-determined sites; and optical Metro Ethernet Services (lit services) – flexible ethernet connectivity with scalable bandwidth (100 Mb to 400 Gb circuits) to support feature-rich applications. Upon receipt of a bona fide wholesale service request, ENMR's experienced staff assesses the capacity of the interconnection sites and transport requirements. ENMR's sales team negotiates a price and contract terms on an individual case basis incorporating distance, interconnection point, connection size, and capacity. The contract terms and conditions are non-discriminatory and tailored according to each request. The team executes the contract and procures any required equipment, provisions the circuit, and implements the contract. ENMR's operations team manages and supports the circuit according to the contract.

Upon completion of this project, ENMR will expand its offerings and extend its current rates and pricing options to last-mile providers advertising in unserved areas. ENMR commits to offering wholesale broadband service at reasonable rates on a carrier-neutral basis. There is no set price for middle mile services. Prices vary greatly depending on the bandwidth, distance, capacity of the desired circuit, and the term of the contract. ENMR anticipates prices for wholesale and middle mile services to decrease at a rate of about 5% every four to five years. ENMR expects a similar pattern of downward pressure on prices for cell backhaul services. ENMR forecasts at least 21 new customers for the Metro Ethernet service and expanded bandwidth for existing customers.

———

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.

ENMR Telephone Cooperative (ENMR) always engages the local community when contemplating large-scale projects. ENMR surveyed the project area, documented the locations of community anchors, and shaped the route so that as many as possible were within 1,000 feet.
ENMR has discussed the proposed project with state and local government representatives, including the New Mexico Office of Broadband Access and Expansion (OBAE). On August 18, 2022, ENMR submitted information in response to OBAE's RFI. Additionally, Launa Waller and Jason Gonzales met virtually with OBAE staff and provided an overview of this application. ENMR conducts business under the name Plateau, which OBAE uses in its letter of support. OBAE's letter is uploaded with the other letters of commitment to this application.
Representative Jack Chatfield supports ENMR's application, stating that the lack of accessible, affordable middle-mile fiber in New Mexico has prevented the expansion of fiber to the premise services. Senator Pat Woods also supports the application, specifically the potential to deliver higher broadband speeds to New Mexico residents. Senator Woods states that the option to connect all anchor institutions to 1/1 G service is necessary. In explaining their support, members of the New Mexico Congressional Delegation (Delegation) note that the lack of accessible, affordable middle-mile fiber in New Mexico has prevented the expansion of FTTP services. The Delegation goes on to say that New Mexico has the highest percentage of residents in the Southwest without adequate broadband internet service with 22% of New Mexico residents not having access to adequate broadband

infrastructure and nearly 70% having to rely on only one Internet Service Provider. The Delegation quotes recent NTIA data showing that in at least five out of 33 New Mexico counties, more than 40% of households do not have internet access at all.
In June 2020, the OBAE in the New Mexico Department of Information published a Strategic Plan and Rural Broadband Assessment. ENMR's proposed project aligns with recommendations adopted in 2020, including the design of a future-proof scalable infrastructure; proposing a fiber-based rural solution for longevity, impact, and long-term value; and leveraging federal broadband funding. In 2021, Senate Bill 93 created the OBAE and required it to develop a three-year statewide broadband plan by January 1, 2023. OBAE has not yet published the statewide plan.
The 87th Texas Legislature created the Broadband Development Office (BDO) at the Texas Comptroller of Public Accounts and charged it with broadband expansion, including establishing an official statewide plan for expanding access. The BDO published an initial statewide plan in June 2022 based on guiding principles that will create the foundation for future federal and state funding. The state plan targeted January 2023 for the publication of the Texas Broadband Availability Map to provide more accurate and timely data on broadband access in Texas. The Map will inform future funding decisions by the BDO and state policymakers. ENMR staff attended the BDO webinar in August 2022 and signed a nondisclosure agreement with the contractor overseeing broadband mapping and coordination in Texas
ENMR is participating fully with state efforts in New Mexico and Texas to expand access to reliable high -speed broadband services. Its staff regularly engages with the broadband office to ensure that its plans align with state policy objectives. The Texas and New Mexico broadband plans and letters of support are uploaded with the letters of commitment to this application.
———

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

Yes
———

Is the project connecting non-contiguous trust lands?

No
———

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

Yes
———

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

Do you attest to this?

Yes

———

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?

Yes

———

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?

Yes

———

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?

No

———

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?

Yes

———

Please describe:

The proposed project provides fully redundant fiber paths to 28 counties in New Mexico and 20 counties in Texas. ENMR already provides wholesale transport services to military installations in New Mexico to military installations in contiguous states. These circuits are already at 100 Gbps, and ENMR

anticipates circuit upgrade requests soon. Those upgrade requests will exceed the capacity available on the current transport system. The proposed network upgrade will ensure that robust transport capacity is available to the many federal institutions in New Mexico and west Texas, contributing to national security. The five new fiber routes pass locations for county and local fire departments, the New Mexico department of transportation, and state police. ENMR currently provides transport services for many electric transmission service providers and solar and wind farms in the region.
The project components related to Carlsbad and Jal, New Mexico, and Kermit, Texas, will dramatically increase capacity and redundancy for communications services available in the western side of the Permian Basin. According to the Federal Reserve Bank of Dallas, in April 2022, the Permian Basin accounted for 43.6% of U.S. oil production.
ENMR currently provides wholesale transport services to various telecommunications service providers that need connectivity from their local markets to Albuquerque, El Paso, Lubbock, and Amarillo to reach national networks and their own assets in their major aggregation POPs. In addition, ENMR provides dedicated internet access to nine regional ISPs with local interconnection points throughout New Mexico enabling cost effective internet uplink access to local markets increasing competition and improving resiliency in local markets.

———

Project Duration

Number of Years

2

———

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.

Under ENMR Telephone Cooperative's (ENMR's) plan, construction will be completed and the project operational by the end of the second year after receiving the grant. The proposed two-year project involves the construction of 155.5 miles of new middle-mile fiber and the installation of dense wavelength-division multiplexing (DWDM) optical transport equipment at 53 locations. IP/Router equipment will be placed at 23 of the DWDM locations. The equipment locations will be connected by

2,250.84 miles of dark fiber already in place and the 155.5 miles of proposed fiber.

ENMR intends to group all outside plant (OSP) project areas into a single contract to keep construction costs as low as possible. ENMR will use multiple construction crews working simultaneously to support the proposed timeline. ENMR's engineering consultant will prepare detailed Plans and Specifications for use in a competitive bidding process designed to assure cost-effectiveness. ENMR will use RUS standards to design the fiber network and a unit-based approach to the staking sheets and OSP design will minimize cost overruns.

To maximize efficiency, project activities will be performed on a parallel track. For example, while preparing the detailed OSP design, coordination activities with environmental permitting agencies will be underway. Construction of the routes will begin in the order that they are cleared for construction. Multiple construction crews will build the routes in parallel where feasible. As such, the proposed timeline reflects a single "window" within which all the routes are anticipated to be completed.

Permitting, environmental studies, and other rights-of-way activities can have a substantial impact on any OSP construction project. ENMR understands the importance of maintaining close communication with relevant federal, state, local, and tribal entities to obtain all necessary clearances in a timely manner. To this point, ENMR has obtained a letter of support from the members of the New Mexico Congressional Delegation stating their support for assisting in the proposed project.

Most electronic equipment will be installed in the existing central offices (CO)/huts with available space and power, which will allow ENMR to install equipment immediately upon receipt. The proposed project includes the construction of two new CO/huts in [redacted].

The cost includes land acquisition and placing prefabricated huts and ancillary equipment (necessary power and racking for the equipment). ENMR plans for the construction of the COs/huts to occur on a parallel track. The process of procuring the CO/huts will begin in the first four months of the project to ensure that they are complete and ready for equipment installation ahead of equipment delivery, which is anticipated to occur in Month 12.

Due to extended lead times caused by current supply chain issues, ENMR will order electronics equipment and OSP materials as early as possible. ENMR expects to place equipment orders within three months after award receipt and OSP materials within two months. Lead times have been observed to range from four to 12 months. Assuming the longer end of this timeframe, this will allow for at least eight months to complete equipment installation, turn-up, and testing. Allowing eight months for initial OSP materials delivery will allow OSP construction to begin in Month 10.

In preparation for this project, ENMR has already engaged leading DWDM and router equipment vendors to obtain pricing estimates. This allows ENMR to finalize the network design and complete the competitive bidding process to select the most favorable solution in a shortened timeframe, then place the equipment order. The anticipated lead time for the equipment is 26 weeks, which will allow ENMR to start deploying equipment 11 months after receiving the award.

ENMR will sequence the implementation of the new routes depending in part on when equipment is received. ENMR will focus first on completing the edge sites and paths establishing redundancy for those edge sites. ENMR will also install points of presence along the routes connecting edge sites. Then ENMR's construction focus will shift to the additional routes and rings as equipment is received and newly built routes are completed. ENMR will emphasize getting as many potential providers connected

to the network as soon as possible.
The attached project timeline file lists the major project activities, timelines, and key milestones.
———

Project Timeline File

Applicants are asked to upload a template 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.

ENMR NTIA MMG - Project Timeline 090322-09-28-2022 01-05-ENMR Telephone Cooperative-GRN-000273.xlsx
———

Is an extension being requested?

No
———

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?

No
———

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.

ENMR Telephone Cooperative (ENMR) is an Equal Employment Opportunity employer, actively committed to compliance with federal, state, and local human rights, labor, and employment laws. ENMR has an exemplary record and has not had any charges, complaints, or legal actions filed against it alleging violations of human rights, labor, wage, and hour and/or other employment laws, or alleging any safety violations, in the past three (3) years. ENMR strives to be the best employer in the area and many employees have spent their entire careers at ENMR due to the pay and benefits offered, and the working conditions.

ENMR does not have union workers, and its contractors and subcontractors (collectively, contractors) are typically not unionized. However, ENMR and its contractors provide competitive wages, benefits, and training to employees, as provided in the ENMR Personnel Policy Handbook, revised in June 2022. For this NTIA middle mile project, ENMR will use contractors for engineering, construction, splicing, project oversight, and contracting. ENMR will conduct the following bid process to select a contractor for the NTIA Middle Mile project:

a. Prepare a bid package describing the project, distribute to selected contractors;
b. Define scoring criteria;
c. Provide a pre-bid information call for questions, identify bid due date and acceptable formats;
d. Provide written response to all questions;
e. Allow interested parties the opportunity to prepare a response to the bid package;
f. Open bids on the due date;
g. Perform scoring process;
h. Select the winning bidder and make notifications

ENMR has not been subject to a prevailing wage requirement for projects completed in the last three (3) years.

Upon receipt of the grant award, ENMR will begin the bidding process for the proposed project. Because a contractor has not yet been selected for this Middle Mile project, ENMR cannot provide the contractor's record of compliance with federal labor and employment laws. ENMR is currently working with a contractor on a RUS Reconnect Round 1 project and can attest that ENMR has no records that this contractor has had any charges, complaints or legal actions filed against it alleging violations of any labor and employment laws.

———

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.

ENMR Certification of Fair Labor Practices-09-23-2022 09-50-ENMR Telephone Cooperative-GRN-000273.pdf, ENMR NTIA Certification of Fair Labor Practic-04-06-2023 06-28-ENMR Telephone

Cooperative-GRN-000273.pdf
———

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 6
000 characters as an open field narrative.

ENMR is managed and operated by a highly skilled local workforce. The management workforce on average has 20 years in the broadband business and professional degrees in their areas of expertise. The Company is committed to diversity in its workforce. ENMR is based in a rural community and has diversity in representation in its workforce in terms of age, gender, race, veterans and military status, and disability. The Company will continue its diversity efforts by advertising job openings on websites that are frequented by diverse groups to attract qualified individuals and increase the diversity of its workforce.

ENMR's non-management workforce is not unionized. The job titles expected to work on this project are:
Engineer
Construction Manager
Fiber Splicer
Fiber Splicer Helper
Project Overseer
Machine Operator
Fiber Technician
Right of Way Agent
Directional Bore Machine Operator
These job titles are not the same as Davis Bacon job titles and different titles may be used for the actual wage determination.

Contractors for ENMR's Outside Plant provide a morning "tailgate" safety meeting for their workers. Supervisors and Managers perform training or bring in vendors to do job-specific trainings, as needed. Safety training, some of which is mandatory, is provided to every new hire and then periodically thereafter depending on the position. ENMR offers tuition reimbursement courses required for a technical, business, or telecommunications-related degree and for elective courses that fulfill a qualifying degree program. ENMR refers to the Society for Human Resource Management (SHRM),

National Telephone Cooperative Association (NTCA), and Salary.com to provide training and certification and to track employee wages, benefits, and employment and labor law compliance.

ENMR ensures quality in the final plant construction. ENMR requires contractors to certify that each construction work order adheres to the bid specifications. In addition, the Company or its engineers inspect the plant separately and complete performance testing prior to service turn-up. ENMR also employs maintenance policies and procedures such as “call before you dig” and signal monitoring that identifies technical issues with the plant to mitigate and prevent outages.

ENMR has a workforce that is 98.5% local, with only three employees that live and work outside the serving area. The Company is an equal employment opportunity employer, promotes diversity in employment, and does not discriminate against employees or applicants based on sex, race, color, national origin, religion, age, disability, genetic information, military, or veteran status, or any other applicable protected class status.

———

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.

1. ENMR supports the development and use of highly skilled workforce in the area through its involvement in career fairs, such as those offered at Clovis Community College, and by hosting interns through the Curry County Summer Internship Program, Clovis Community College, and Eastern New Mexico University. These interns serve in areas of accounting, information services, and network operations. In 2022 ENMR hired one of its summer interns as a full-time employee.
2. ENMR provides various safety training sessions to internal employees. Some of the construction employees are provided with Commercial Driver License (CDL) training in order to get their CDLs. Install technicians receive training in order to get their state issued ES7J journeyman’s licenses. Overall, employees are encouraged to pursue degrees and certifications related to their fields and ENMR provides tuition reimbursement for related college courses. Technicians and engineers attend periodic

training specific to software, test, and measurement equipment that is used to maintain the network. Network operations employees are afforded the opportunity to obtain Cisco certification paid for by the company.

3. As previously stated, ENMR provides tuition reimbursement and training opportunities to employees. The company also provides scholarships and grants to those in the ENMR service area. A list of the different scholarships and grants is available on ENMR's website at this link: https://www.plateautel.com/company/scholarships. Barriers associated with geographic isolation, low market density, deteriorating infrastructure, and high unemployment rates underscore the need for community development. To better strengthen and develop communities served by ENMR, a matching grant program has been established, Nuestros Vecinos—"Our Neighbors" ("the Grant Program").

4. Much of the ENMR serving area is considered extremely rural and low income. The permanent staff reflects the demographics of the service area. ENMR is an equal opportunity employer that strives to recruit locally whenever possible. ENMR encourages its employees to participate in civic activities and community service events. The company allows employees up to 24 hours of paid community service time per year. An ENMR employee, Sara Wiest, serves on the Eastern Area Workforce Development Board (EAWDB). This board is 100% funded through the Workforce Innovation and Opportunity Act (WIOA) and is overseen by the Department of Labor and NM Department of Workforce Solutions. The mission of the EAWDB is to identify workforce needs and opportunities and guide the development of training programs and services to meet those needs. The Contractors are committed to EOE compliance. Due to the transient nature of the work, Company does not have the demographics of the contractor workforce.

———

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.

The project area is located primarily within the National Climate Assessment's Southwest region – specifically, the state of New Mexico where the majority of MMG infrastructure/hardware will be placed. A small portion of the proposed MMG project area extends south and west into Texas, however, the climate impacts in this region do not differ, in a statistically significant way, from the Southwest region, therefore, this analysis does not differentiate that zone from the remainder of the proposed middle mile route in New Mexico.

The average year has 50 days with low temperatures below freezing. Temperatures in New Mexico have risen more than 2°F since the beginning of the 20th century. The number of extremely hot days and warm nights has also increased. Historically unprecedented warming is projected during this century. The summer monsoon rainfall, which provides much needed water for agricultural and ecological systems, varies greatly from year to year, and future trends in such precipitation are highly uncertain. Droughts are a serious threat in this water-scarce state. Drought intensity is projected to increase, and snowpack accumulation is projected to decrease, posing a major challenge to New Mexico's environmental, agriculture, and human systems. Wildfire frequency and severity are also projected to increase throughout the state.

NOAA's weather and climate disaster statistics show that between 1950 and 2021, 10 wildfires, 61 months of drought, 47 days of hail greater than 1.00 inch in diameter, 11 severe storms, 26 high wind events (greater than 60 kts.), and 4 flooding events have affected the project area. ENMR Telephone Cooperative (ENMR) has operated in the region for over 70 years and has deep experience with the weather variations forecasted in NOAA's Climate Summaries.

NOAA's Climate Summaries indicate that there are no new climate events to the region. ENMR has incorporated NOAA's predicted extreme weather-related impacts into its network design to mitigate the impact on customers, community, and company:

ENMR seeks to mitigate impacts of potential weather events as follows:

- Winter Storm: Proposed hut locations include DC power systems with backup battery systems capable of running a minimum of 8 hours in the event of a commercial power failure. Central offices (COs) have backup power generators onsite in the event of power outages.
- Hail: Proposed transport electronics are to be installed in existing COs, new prefabricated shelters designed to protect the electronics equipment from hail events. In the event of an extreme hail scenario that damages electronics equipment, ENMR maintains backup equipment to immediately replace damaged items to bring services back online.
- Tornado/Wind: In the event of a tornado damaging an electronics site, ENMR will review any damage and use spare materials to bring the damaged site back online. ENMR seeks to mitigate any tornado/wind impact on the proposed fiber construction by burying all proposed cable. This will avoid any tornado/wind related damage to aerial pole line.
- Flooding: ENMR seeks to place new electronics huts in areas outside of identified flood plains to minimize the potential impact of flooding on the proposed equipment. Fiber will be constructed using buried techniques using watertight splice cases that will not be impacted by flooding.
- Drought: Ongoing drought conditions will not impact the proposed electronics equipment or the fiber cable.
- Severe Thunderstorms: ENMR's proposed electronics equipment will be installed in environmentally controlled huts with DC power systems to provide backup power in the event of power failures. The huts also utilize grounding systems meeting NESC requirements to protect the

equipment from lightning related power surges.

ENMR closely monitors weather events and has included high-risk/high probability weather events in its disaster recovery plan, as well as contingencies for “black swan” events – major winter storms, or wildfires brought on by drought and high temperatures. Management will review and update the plan, as needed, annually. Additionally, Emergency Operations procedures will be put into effect during a triggering event to ensure triggering events are mitigated to the best of ENMR’s abilities – i.e., keep service interruptions, primarily for anchor institutions, at a minimum. The Emergency Management team will hold a retrospective after every triggering event to discuss what went well and what needs to be improved upon, and make staff aware of best practices. During, or immediately following the event, ENMR will survey equipment in the affected areas and complete necessary repairs or implement contingency plans to ensure service. These actions ensure that the infrastructure built using capital awarded through NTIA’s Middle Mile Grant program will remain usable for at least 20 years after completion.

———

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.

ENMR Certification of Technical Capability-09-23-2022 09-54-ENMR Telephone Cooperative-GRN-000273.docx, ENMR Certification of Technical Capability - -10-21-2022 11-58-ENMR Telephone Cooperative-GRN-000273.pdf, ENMR Certification of Technical Capability RE-04-06-2023 06-54-ENMR Telephone Cooperative-GRN-000273.pdf

———

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.

ENMR Telephone Cooperative (ENMR) offers and commits to continue to offer, wholesale transport and interconnection offerings to retail providers on a nondiscriminatory basis in the geographies it serves.

Interconnection

ENMR will provide access to facilities at identified nodes and other negotiated locations that are economically and technically feasible. ENMR offers multiple diverse transport routes and has major points of presence (POPs) in New Mexico and the Texas Panhandle including Amarillo, Lubbock, Roswell, El Paso, and Albuquerque with connections to all major carriers. ENMR's service is competitive, highly reliable, and comes with 24 x 7 network monitoring and customer support. ENMR will negotiate in good faith with all requesting parties (i.e., public, private, non-profit, terrestrial and wireless last mile broadband providers, wireless carriers, content providers or other parties) making a bona fide request for interconnection or wholesale services. ENMR is prepared to:

(a) provide transport services to a last mile provider that is serving the customer (e.g., backhaul, Internet access, voice interconnection, transit traffic).

(b) allow collocation by interconnecting parties, on a first-come, first-served basis, where and when possible.

(c) rates and terms for interconnection shall be reasonable and nondiscriminatory.

(d) provide open access to and use of transmission services to and between node locations and to a wholesale customer at just and reasonable rates.

(e) provide service level agreements, service level guarantees, and standards, including service guarantees and standards related to jitter, latency, delivery ratio, and service availability.

(f) provide reasonable and nondiscriminatory provisioning and installation intervals; and

(g) deliver repair and maintenance timeframes that are consistent with industry standards and practices ENMR has established Mean Times to Repair for all offered services based on the nature of the service issue.

Parties may inquire about ENMR's wholesale services by visiting https://www.plateautel.com/transportservices, contacting the Transport Sales Team at transportsales@plateautel.com or (575)389-1003.

ENMR's Network Management Policy

ENMR manages its network in order to provide the ultimate broadband Internet service to its customers. ENMR acknowledges that bandwidth and network resources are not infinite and must be reasonably confined. To bring the best possible broadband internet experience, ENMR enforces network management policies that limit network congestion and delay while ensuring that all Internet

content is treated fairly and is not unlawfully blocked or degraded. ENMR's network management practices are intended to protect the network, and ENMR's customers, from network congestion, threats to the network, security attacks, viruses, and spam. ENMR manages its network in a way that is transparent and not unreasonably discriminatory.

ENMR's network management policy is posted at this link: https://www.plateautel.com/legal/networkmanagement. ENMR Plateau manages its network for a number of reasons, including optimization, as well as congestion-and security-protocol-management. ENMR uses management tools including managing congestion. ENMR promotes the security of its network and patrons by providing resources to its customers for identifying and reporting such threats as spam, viruses, firewall issues, and phishing schemes. ENMR checks its usage logs on a weekly basis to determine utilization on its network. When utilization reaches 80%, ENMR adds capacity or reroutes traffic on its fiber and DSL networks to relieve congestion. ENMR also checks for abnormal traffic flows, network security breaches, malware, loss, and damage to the network. ENMR employs a variety of industry-standard tools, applications, and devices to monitor, secure and maintain its network, including deep packet inspection technology and IT infrastructure management/monitoring tools.

———

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.

ENMR Telephone Cooperative's (ENMR's) service objectives for the proposed project include assurance that last mile providers have access to affordable middle mile transport to the internet. The proposed DWDM and router upgrades will increase bandwidth for the entire network from up to 800 Gbps to up to 16 Tbps allowing last mile providers to increase upload speeds for end-users, strengthen the network against single points of failure, and provide redundancy. The proposed project includes the construction of five new fiber segments, one of which completes the fiber ring in Delcom's service area linking Kermit to Jal in the southern edge of the middle mile network. The other four new fiber segments will create alternative diverse paths connecting Santa Fe and Albuquerque. ENMR's existing wholesale customers will immediately benefit from the expanded capacity and increased reliability. ENMR certifies that the proposed project will, upon completion, be capable of supporting retail broadband service. ENMR will continue offering services to last-mile carriers. Prices quoted below are for one year terms:

[redacted]

[redacted]

ENMR has been working with Baca Valley and Delcom to develop the communications infrastructure in this area since 2011. These two small local companies, committed to improving broadband service to their rural customers, are subrecipients who wrote letters in support of the proposed project. Baca Valley and Delcom express their commitment to using the proposed middle mile network and believe it will strengthen customers' access to reliable, high-speed broadband services in New Mexico.

———

Applicants are encouraged to upload supplemental documentation.

ENMR Delcom Commitment Letter 9-09-28-2022 03-58-ENMR Telephone Cooperative-GRN-000273.28.22.pdf, ENMR Baca Valley Commitment Letter 9-09-28-2022 03-58-ENMR Telephone Cooperative-GRN-000273.28.22.pdf, 96-1875 Texas Broadband Plan 2022-09-29-2022 02-38-ENMR Telephone Cooperative-GRN-000273.pdf, ENMR NM OBAE Grant Support 2022-09-29-2022 02-36-ENMR Telephone Cooperative-GRN-000273.pdf, New-Mexico-Broadband-Strategic-Plan-20200616-09-29-2022 02-37-ENMR Telephone Cooperative-GRN-000273.pdf, NTIA Grant Support 2022 - Chatfield-09-29-2022 02-38-ENMR Telephone Cooperative-GRN-000273.pdf, NTIA Grant Support 2022 - NM Congressional De-09-29-2022 02-38-ENMR Telephone Cooperative-GRN-000273.pdf, NTIA Grant Support 2022 - Woods-09-29-2022 02-38-ENMR Telephone Cooperative-GRN-000273.pdf, OBAE Annual Report-09-29-2022 02-38-ENMR Telephone Cooperative-GRN-000273.January 2022.pdf

———

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.

ENMR Telephone Cooperative's (ENMR's) middle mile network has 38 interconnection locations and directly connects to Tier 1 providers in Albuquerque, Amarillo, El Paso, and Lubbock. ENMR's open access network is available on a non-discriminatory basis delivering high-capacity broadband, ethernet, transport, middle mile, and backhaul services. The wholesale market operates on an extremely

competitive basis and there are few published rates for these services. ENMR will continue offering the wholesale services listed below (the monthly prices quoted are for one-year terms):

[redacted]

Lumen has interconnection locations on its fiber routes in Albuquerque and Santa Fe, New Mexico, and El Paso and Amarillo, Texas. Lumen advertises the following monthly prices, for 36-month terms, for dedicated internet access: 100 Mbps for $626; 1 Gbps for $1,128; and 2 Gbps for $1,814. Lumen's price sheet and fiber map are uploaded as attachments to this application.

ENMR has identified six other middle-mile providers interconnecting with ENMR's middle mile network.

- Unite Private Networks (UPN) network entered the New Mexico market in 2018 through the acquisition of existing Level 3 fiber assets, and the construction of the Albuquerque Public School (APS) network. In 2019 UPN announced today an extensive near-net expansion.
- Telephone and Data Systems, Inc. (TDS), a Fortune 1000® company, provides wireless; broadband, video, and voice; and hosted and managed services to approximately 6 million connections nationwide.
- Conterra Networks offers transport and local network services in El Paso and along the Texas-New Mexico border.
- Facebook's third data center on the Los Lunas campus in New Mexico is up and running. This latest opening marks the halfway point on a plan to build six facilities.
- Windstream's wholesale has facilities in Albuquerque and in northern New Mexico towards Colorado and Truth or Consequences, Ruidoso, and Capitan in south-central New Mexico.
- Zayo operates core network and IP facilities in Albuquerque.

ENMR identified four Tier 1 carrier networks operating facilities in New Mexico and Texas.

- Arelion has two point of presence (POPs) in El Paso.
- Cogent's Tier 1 optical IP network routes through locations in Albuquerque and El Paso.
- Hurricane Electric Internet Services has a facility in Albuquerque.

- Zayo operates long-haul dark fiber with termination points in Albuquerque, El Paso, and Lubbock. Zayo also has an IP POP in Albuquerque and plans to enable a 400 Gbps POP in El Paso by the end of 2023.

Given the level of wholesale activity in the region, ENMR anticipates a reduction in wholesale prices of four to five percent as term contracts are renewed and renegotiated. ENMR expects these wholesale price reductions, coupled with increased middle mile network capacity, will flow through to end-use customers. Webpages including network maps for each company listed above are uploaded with this application.

———

Applicants are encouraged to upload supplemental documentation.

ENMR Wholesale and Middle Mile Carriers-09-28-2022 01-21-ENMR Telephone Cooperative-GRN-000273.pdf

———

Type of technology to be used in proposal:

Fiber Optic Technology

———

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.

Do you agree to certify to the above?

Yes

———

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

ENMR Community Anchor Institutions Final-09-26-2022 01-50-ENMR Telephone Cooperative-GRN-000273.xlsx

———

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.

ENMR MM Existing Route Miles-09-26-2022 01-47-ENMR Telephone Cooperative-GRN-000273.zip, ENMR MM Point of Interconnections-09-26-2022 01-47-ENMR Telephone Cooperative-GRN-000273.zip, ENMR MM Proposed Route Miles-09-26-2022 01-48-ENMR Telephone Cooperative-GRN-000273.zip, ENMR Lacking 25-3 (1)-09-28-2022 04-46-ENMR Telephone Cooperative-GRN-000273.zip, ENMR Lacking 100-20-09-28-2022 04-46-ENMR Telephone Cooperative-GRN-000273.zip

———

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.

ENMR Data Submission Specification 09142022-09-26-2022 01-42-ENMR Telephone Cooperative-GRN-000273.xlsx

———

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.

ENMR MMG Network Diagram App_v5-09-26-2022 01-45-ENMR Telephone Cooperative-GRN-000273.pdf, ENMR Served and Underserved Areas-09-26-2022 04-34-ENMR Telephone Cooperative-GRN-000273.kmz

———

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.

The proposed projects consist of approximately 155.5 miles of buried fiber construction and the placement of two new pre-fabricated equipment huts. The proposed buried construction will follow previously disturbed existing rights-of-way (ROWs). Buried fiber will be plowed in by a tractor using a ripper attachment. The ripper will open a narrow slot, up to 36" deep to insert, and then cover the fiber in previously disturbed existing ROW. The two equipment huts will disturb approximately 25'x25' of land adjacent to proposed fiber construction routes in Kermit and San Antonito, New Mexico.

The physical project area is in National Climate Assessment's Southwest region – specifically within the State of New Mexico.

ENMR Telephone Cooperative (ENMR) will coordinate with the State Historic Preservation Office (SHPO) to comply with National Historic Preservation Act (NHPA) Section 106 requirements. Additionally, ENMR will utilize the U.S. Fish & Wildlife Information for Planning and Consultation (IPaC) tool to review the project areas for impacts to endangered species and develop construction plans to minimize any impact. However, the applicant plans to utilize buried construction routes that are in previously disturbed areas to minimize additional environmental impact.

ENMR has included a PDF map as an attachment to this application of the individual proposed project areas and routes.

———

Upload Map Images:

ENMR MASTER KEY - Middle Mile Grant App-FINAL-09-29-2022 04-13-ENMR Telephone Cooperative-GRN-000273.kmz, Plateau NTIA MM App Proposed Fiber Routes Map-10-21-2022 05-09-ENMR Telephone Cooperative-GRN-000273.pdf

———

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.

UPDATED ENMR Table of Collaborators-09-28-2022 01-29-ENMR Telephone Cooperative-GRN-000273.xlsx, Table of Collaborators - NTIA MM Application -04-06-2023 05-52-ENMR Telephone Cooperative-GRN-000273.xlsx, ENMR Table of Collaborators Revised 04072023 -04-07-2023 06-23-ENMR Telephone Cooperative-GRN-000273.xlsx

———

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.

ENMR Certification of Operational Capability-09-23-2022 09-55-ENMR Telephone Cooperative-GRN-000273.docx, ENMR Certification of Operational Capability--10-21-2022 12-00-ENMR Telephone Cooperative-GRN-000273.pdf, ENMR Certification of Operational Capability -04-06-2023 06-55-ENMR Telephone Cooperative-GRN-000273.pdf

———

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.

ENMR Certification of Financial Capability-09-23-2022 09-51-ENMR Telephone Cooperative-GRN-000273.docx, ENMR Certification of Financial Capability - -10-25-2022 06-54-ENMR Telephone Cooperative-GRN-000273.pdf

———

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.

ENMR Signed Legal Letter-09-23-2022 12-11-ENMR Telephone Cooperative-GRN-000273.pdf, ENMR Citizens Bank LOC-09-23-2022 12-11-ENMR Telephone Cooperative-GRN-000273.pdf

———

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.**

ENMR 2019 and 2018 Audited Financials-09-23-2022 09-52-ENMR Telephone Cooperative-GRN-000273.pdf, ENMR 2020 and 2019 Audited Fianacials-09-23-2022 09-52-ENMR Telephone Cooperative-

GRN-000273.pdf, ENMR 2021 and 2020 Audited Financials-09-23-2022 09-52-ENMR Telephone Cooperative-GRN-000273.pdf

———

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.**

ENMR 2019 and 2018 Audited Financials-09-23-2022 09-53-ENMR Telephone Cooperative-GRN-000273.pdf, ENMR 2021 and 2020 Audited Financials-09-23-2022 09-53-ENMR Telephone Cooperative-GRN-000273.pdf, ENMR 2020 and 2019 Audited Fianacials-09-23-2022 09-53-ENMR Telephone Cooperative-GRN-000273.pdf

———

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.

UPDATED ENMR Budget Narrative Template 092920-09-29-2022 04-21-ENMR Telephone Cooperative-GRN-000273.docx, ENMR Budget Narrative Template REVISED - LW-10-21-2022 01-23-ENMR Telephone Cooperative-GRN-000273.pdf, UPDATED ENMR Budget Narrative Template Revise-04-06-2023 06-00-ENMR Telephone Cooperative-GRN-000273.docx, UPDATED ENMR Budget Narrative Template Revise-04-07-2023 05-30-ENMR Telephone Cooperative-GRN-000273.docx

———

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.

UPDATED ENMR MMG Detailed Budget Justificatio-09-28-2022 01-35-ENMR Telephone Cooperative-GRN-000273.xlsx, ENMR MMG Detailed Budget Justification 040620-04-06-2023 06-00-ENMR

Telephone Cooperative-GRN-000273.xlsx, ENMR MMG Detailed Budget Justification Revise-04-07-2023 05-31-ENMR Telephone Cooperative-GRN-000273.xlsx

———

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.

ENMR - NTIA MMG - All Financial Documents Com-09-28-2022 01-39-ENMR Telephone Cooperative-GRN-000273.pdf, ENMR - NTIA MMG - All Financial Documents REV-04-06-2023 06-01-ENMR Telephone Cooperative-GRN-000273.pdf, ENMR - NTIA MMG - All Financial Documents 040-04-07-2023 06-22-ENMR Telephone Cooperative-GRN-000273.pdf

———