Dairyland Power Cooperative
Tri-State Fiber Deployment Project Budget Narrative

Applicant Name: **Dairyland Power Cooperative (DPC)**
Proposed Period of Performance: **Work in the field to begin as early as April 2023 and complete by March 2026**
Total Project Costs: **$30,387,913.86**
Total Federal Grant Request: **$14,890,077.79**
Total Matching Funds (Cash): **$15,497,836.07**
Total Matching Funds (In-Kind): $**0**
Total Matching Funds (Cash + In-Kind): **$15,497,836.07**
Total Matching Funds (Cash + In-Kind) as Percentage of Total Project Costs**: 51%**

The scope of the project included in this MMGP application consists of eight (8) separate segments that encompasses the TSFDP in the MMGP application. The TSFDP scope includes the following segments, broken out for convenience and project management purposes. Total costs for all budget categories listed herein encompass all eight segments of the TSFDP unless otherwise indicated.

Segment ID	Segment Name	Construction Year	Budget Total
W33989	Q23 Barron-Apple River Fiber	2023	$3,702,745
W33999	N14/N210 Adams-Twin Lakes OPGW	2023	$4,881,237
W34003	N8/N320 Harmony-Postville OPGW	2023	$5,005,735
W34005	N90 Adams-Orchard Fiber	2024	$2,611,324
W34006	Q21 Barron-Washco Fiber	2024	$5,288,767
W33405	Genoa-Harmony Fiber Retrofit	2025	$3,047,796
W33406	Harmony-Adams Fiber Retrofit	2025	$3,014,112
PROJ001123	N204 Washco to Big Sand	2025	$2,836,197.86

Dairyland Power Cooperative (DPC) has installed and used fiber optics on its transmission system for over 20 years for intersystem telecommunications and is staffed with the resources to construct, install, and maintain the fiber conductor. DPC currently provides system controls telecommunications via its transmission system that supports both DPC and its twenty-four (24)

distribution cooperative members. DPC has both project management and enterprise-wide asset management programs that are utilized to effectively manage telecommunication and transmission system construction and maintenance activities. This programmatic approach provides assurance that our costs are monitored and managed effectively and gives us the capability to demonstrate that our costs are reasonable, allowable, allocable, and necessary to the supported activity.

DPC also maintains the transmission and telecommunications construction, maintenance, engineering, and management resources necessary to operate and maintain 3,184 miles of electricity transmission and telecommunication lines across 44,500 square miles of DPC service territory. DPC currently operates and maintains $1.31 billion in total assets.

1. Administrative and Legal Expenses - $791,600

The administrative and legal expenses associated with DPC's TSFDP are comprised of costs attributable to preparing, administering, accounting, auditing, contracting, budgeting, managing, reporting, and legal services in support of the construction of the project. This includes general office supplies, general and administrative salaries and wages, and consultants. Costs related to the normal functioning of government are not included. Those costs considered indirect costs are not included in direct costs and will be applied in accordance with 2 CFR § 200.412. DPC seeks $387,884 in federal funds to support this budget category, while the remaining $403,716 will be subsidized by DPC.

The estimated administrative and legal fees are listed by category and broken down by line item to the extent possible. Each line includes the total time, cost per unit, and the total cost for that line item.

Indirect costs associated with administration of this grant are not included in this MMGP application.

Justification for Administration and Legal Fees Federally funded activities:

Activity	**Total Time**	**Rate**	**Federal Funds Requested**	**Total Cost**
Grant Preparation Activities	500 hrs	$100/hr	$24,500	$50,000
Grant Legal Fees	80 hrs	$750/hr	$29,400	$60,000
Grant Management Activities	20 hrs/wk	$100/hr	$147,000	$300,000
Grant Accounting and Budgeting	40 hrs/mo	$90/hr	$63,504	$129,600
Grant Auditing Activity	20 hrs/mo	$100/hr	$35,280	$72,000
Grant Contracting Activity	15 hrs/mo	$80/hr	$21,168	$43,200
Grant Reporting and Communication	40 hrs/mo	$95/hr	$67,032	$136,800
Total:			$387,884	$791,600

Administrative and Legal Expense Details:
Grant Preparation Activities ($50,000) – Staff/Consultant time are estimated at 500 hours at $100 per hour (staff/consultants) to develop and complete the mandatory grant application forms, narratives, submittals, and submission of the grant.

Grant Legal Fees ($60,000) – Consultant legal staff time is estimated at 80 hours at $750 per hour (exact staff/consultants TBD) to develop and provide direct support and oversight for DPC throughout the grant development and implementation process. This also includes developing agreements and MOUs between the various organizations involved in the grant, to include sub-grantees. Also, consultants/staff will conduct legal reviews for all contracts.

Grant Management Activities ($300,000) – Staff/consultant time estimated at 20 hours per week at $100 per hour over the course of the project (150 weeks). This includes providing oversight for staff/consultants, managing grant administration activities such as reviewing or completing reports, responding to audit requirements, conducting budgetary activities, managing communication with the government, and other activities as required by the NTIA. These activities are necessary to meet the reporting and compliance requirements of the grant program. This position will be funded by federal and matching DPC funds.

Grant Accounting and Budgeting Activities ($129,600) – Staff/consultant time estimated at 40 hours per month at $90 per hour over the course of the project (36 months). This includes developing and running financial and budgetary performance reports, conducting reviews and audits on TSFDP financial data and reports, communicating with staff/consultants on project performance, and preparing reports for distribution to the grantor.

Grant Auditing Activity Activities ($72,000) – Independent consultant time estimated at 20 hours per month @ $100 per hour for the duration of the project (36 months). This includes auditing project financial reports, project progress reports, environmental compliance reports, and other aspects of compliance with grantor requirements.

Grant Contracting Activities ($43,200) – Staff time estimated at 15 hours per month at $80 per hour over the course of the project (36 months). This includes all aspects of contract and procurement support for administration of the contract including but not limited to consultants, auditors, legal support, administration support, management and oversight, and communications.

Grant Reporting and Communication ($136,800) – Staff/consultant time estimated at 40 hours per month at $95 per hour for the duration of the project (36 months). This includes consultants specializing in reporting on government grants, collection and review of information, obtaining necessary certifications, etc.

2. Land, Structures, Rights-of-way, Appraisals, etc. - $846,000

During the planning phases of the project, DPC will evaluate the right-of-way, existing structures, land use, environmental status, and perform appraisals for easements; including estimated site and right-of-way acquisition costs (including purchase, lease and/or easements).

Right-of way staff/consultants will provide a description of estimated costs, proposed activities, and any additional information needed to identify the scope and cost of establishing clear easements for the project. These costs typically run in the three to four percent range of typical fiber or transmission system construction project costs. DPC anticipates the costs with the TSFDP will be consistent. DPC seeks $414,540 in federal funds to support this budget category, while the remaining $431,460 will be subsidized by DPC.

Justification for Land, Structures, Right-of-way and Appraisal Costs for Federally Funded Activities:

Segment #	**Segment Name**	**Land & ROW Costs**	**Notes**
X33989	Q23 Barron-Apple River Fiber	$102,936	Access Roads Negotiation/Initial Door Knocks/Updated Easements
X33999	N14/N210 Adams-Twin Lakes OPGW	$136,607	Access Roads Negotiation/Initial Door Knocks/Updated Easements
X34003	N8/N320 Harmony-Postville OPGW	$140,164	Access Roads Negotiation/Initial Door Knocks/Updated Easements
X34005	N90 Adams-Orchard Fiber	$71,746	Access Roads Negotiation/Initial Door Knocks/Updated Easements
X34006	Q21 Barron-Washco Fiber	$148,250	Access Roads Negotiation/Initial Door Knocks/Updated Easements
W33405	Genoa-Harmony Fiber Retrofit	$84,223	Access Roads Negotiation/Initial Door Knocks/Updated Easements
W33406	Harmony-Adams Fiber Retrofit	$83,260	Access Roads Negotiation/Initial Door Knocks/Updated Easements
TBD	N204 Washco to Big Sand	$78,814	Access Roads Negotiation/Initial Door Knocks/Updated Easements

A more detailed cost breakdown is provided below. These costs are estimated using recent DPC historical project cost performance. Actual costs on the TSFDP may vary.

Description	Unit Basis	Unit Cost	Number of Units	Federal Funds Requested	Total Cost
Evaluate R/W	Fully Burdened Cost per hour	$80	1600	$62,720	$128,000
Evaluate Existing Structure Locations/Legal	Fully Burdened Cost per hour	$80	800	$31,360	$64,000

Contacts with Landowners (3 visits)	Fully Burdened Cost per hour	$80	4800	$188,160	$384,000
Evaluate Land Use	Fully Burdened Cost per hour	$80	400	$15,680	$32,000
Perform Appraisals For Easements	Fully Burdened Cost per hour	$80	1200	$47,040	$96,000
Determine Site and R/W Acquisition Costs	Fully Burdened Cost per hour	$80	1000	$39,200	$80,000
Incidentals/Mileage/ Computer Fees				$30,380	$62,000

Evaluate R/W ($128,000) – Evaluating right of ways involves assessing the land and obtaining any necessary permits or licenses, which is crucial to ensure that the retrofitting is done in a cost-effective and efficient manner. This will enable DPC to avoid potential delays, unexpected costs, and other issues that may arise during the retrofitting process.

Evaluate Existing Structure Locations/Legal ($64,000) – The current location and legal status of any existing structures, such as utility poles or buildings that may be used to support the broadband infrastructure will need to be assessed. This evaluation will likely involve identifying and mapping the location of existing structures, assessing their suitability for supporting the broadband equipment, and determining any legal or regulatory requirements that must be met to use them for this purpose.

Contacts with Landowners (3 visits - $384,000) – Engaging landowners is necessary to gain access to private land to implement infrastructure or obtain a right of way to use a portion of the land. It will also help facilitate collaboration and allow for the project to negotiate terms, comply with legal requirements, and address any concerns or issues that may arise.

Evaluate Land Use $32,000 – Land use evaluation involves identifying and mapping the land use, assessing the suitability of different land uses for supporting the broadband infrastructure, and determining any legal or regulatory requirements that must be met. This will help to identify potential obstacles, avoid delays and unexpected costs, and ensure compliance with legal and regulatory requirements.

Perform Appraisals For Easements $96,000 – This will help to determine the fair market value of the land or property that will be used for the retrofitting of the necessary infrastructure. This appraisal process is essential for negotiating and acquiring the appropriate easements to use the land or property, as well as ensuring that landowners receive fair compensation for granting easements.

Determine Site and R/W Acquisition Costs $80,000 – DPC will evaluate the land needed to retrofit the OPGW, assessing the fair market value of the land and negotiating with landowners to acquire the necessary land or right-of-way.

Incidentals/Mileage/ Computer Fees $62,000 –Incidentals, mileage, and computer fees are expenses are needed to cover miscellaneous expenses, such as office supplies or printing costs, the cost transportation to travel to different project sites or to meet with stakeholders, as well as software, hardware, or other technology-related expenses necessary for the project.

3. Relocation Expenses and Payments - $564,000.00

Early in the construction phase of the project, DPC will perform work or make payments associated with relocation or retirement of structures, business, parking lots, poles, conductor, etc. associated with the project. Examples of retirement include the removal of DPC or other utility infrastructure that must be removed/replaced in support of the project. The retirement category could include substations, transmission or distribution poles, power conductor, and older fiber. DPC seeks $276,360.00 in federal funds to support this budget category, while the remaining $287,640.00 will be subsidized by DPC.

DPC has identified that relocation/retirement costs typically range from two to three percent of typical fiber or transmission system construction project costs. DPC anticipates the costs with the TSFDP will be consistent.

Justification for Relocation and Retirement Costs for Federally Funded Activities:

Segment #	Segment Name	Relocation	Notes
X33989	Q23 Barron-Apple River Fiber	$68,623.86	Relocation & Retirement Expenses and Payments
X33999	N14/N210 Adams-Twin Lakes OPGW	$91,071	Relocation & Retirement Expenses and Payments
X34003	N8/N320 Harmony-Postville OPGW	$93,443	Relocation & Retirement Expenses and Payments
X34005	N90 Adams-Orchard Fiber	$47,831	Relocation & Retirement Expenses and Payments
X34006	Q21 Barron-Washco Fiber	$98,834	Relocation & Retirement Expenses and Payments
W33405	Genoa-Harmony Fiber Retrofit	$56,149.14	Relocation & Retirement Expenses and Payments

W33406	Harmony-Adams Fiber Retrofit	$55,507	Relocation & Retirement Expenses and Payments
TBD	N204 Washco to Big Sand	$52,541	Relocation & Retirement Expenses and Payments

A more detailed cost breakdown is provided below. These costs are estimated using recent DPC historical project cost performance. Actual costs on the TSFDP may vary.

Description	**Federal Funds Requested**	**Total Cost**
Relocate and Retirement of DPC Structures	$16,660.00	$34,000.00
Retirement of 3rd party Structures	$39,200	$80,000
Modification of 3rd party Underground Facilities	$39,200	$80,000
Temporary Relocation of Business Operations	$34,300	$70,000
Costs associated with Existing Land Uses	$147,000	$300,000

Relocate and Retirement of DPC Structures $34,000.00 – This is necessary to clear the way for the OPGW retrofit. This activity involves assessing existing structures, such as poles or transmission lines, and determining if they need to be moved or removed. The relocation or retirement of these structures can help to ensure that the OPGW is retrofitted safely and efficiently, without any interference or obstructions.

Retirement of 3rd party Structures $80,000 – Through this process DPC will retire existing structures that belong to third-party entities such as poles, conductor, anchors, etc. This is necessary to clear the way for the installation of the new infrastructure and to avoid any interference or obstructions with the existing structures. Retirement of 3rd party structures involves assessing the compatibility of the existing structures with the new OPGW, obtaining necessary permits, and negotiating with the third-party entities to remove or decommission the structures.

Modification of 3rd party Underground Facilities $80,000 – DPC will alter existing underground infrastructure that belongs to third-party entities which is necessary to accommodate the OPGW without causing any damage or disruption to the existing infrastructure. The modification process involves assessing the compatibility of the existing underground facilities with the new

infrastructure, obtaining necessary permits, and negotiating with the third-party entities to modify the facilities.

Temporary Relocation of Business Operations $70,000 – DPC will temporarily relocate during the installation or maintenance of the broadband infrastructure. This process is necessary to ensure that the installation or maintenance work can be completed without causing any disruption or interference to the business operations of the organization.

Costs associated with Existing Land Uses $300,000 – This entails the expenses incurred due to the existing physical and legal infrastructure of the land where the project is to be carried out. This includes costs related to acquiring land or right-of-way, upgrading or modifying existing infrastructure, dealing with environmental factors, and addressing any legal or regulatory challenges that may arise from the use of the land.

4. Architectural and Engineering Fees - $1,685,200

DPC engineering staff anticipates self-performing the architectural and engineering work associated with the TSFDP, though some use of outside consulting firms may be employed. The architectural and engineering scope includes site walkdowns, engineering design, transmission line outage coordination, work plan development, project team support, material specifications, material procurement, commissioning and testing, and construction contract development. DPC seeks $825,748 in federal funds to support this budget category, while the remaining $859,452 will be subsidized by DPC.

Typical DPC architectural and engineering costs range from six to eight percent. This scope of engineering work is typical, and DPC expects TSFDP costs to be consistent.

Justification for Architectural and Engineering Costs for Federally Funded Activities:

Segment #	Segment Name	Engineering	Notes
X33989	Q23 Barron-Apple River Fiber	$205,871	Architectural & Engineering Fees
X33999	N14/N210 Adams-Twin Lakes OPGW	$273,214	Architectural & Engineering Fees
X34003	N8/N320 Harmony-Postville OPGW	$280,328	Architectural & Engineering Fees
X34005	N90 Adams-Orchard Fiber	$143,492	Architectural & Engineering Fees
X34006	Q21 Barron-Washco Fiber	$290,101	Architectural & Engineering Fees
W33405	Genoa-Harmony Fiber Retrofit	$168,446	Architectural & Engineering Fees
W33406	Harmony-Adams Fiber Retrofit	$166,521	Architectural & Engineering Fees

TBD	N204 Washco to Big Sand	$157,227	Architectural & Engineering Fees

A more detailed cost breakdown is provided below. These costs are estimated using recent DPC historical project cost performance. Actual costs on the TSFDP may vary:

Description	**Unit Basis**	**Unit Cost**	**Number of Units**	**Federal Funds Requested**	**Total Cost**
Initial Site Walk Downs	Fully Burdened Cost per hour	$120	300	$17,640	$36,000
Engineering Design Including CADD Documents	Fully Burdened Cost per hour	$120	10,500	$ 617,400.00	$1,260,000
Outage Coordination	Fully Burdened Cost per hour	$140	320	$18,816	$38,400
Work Plan Development	Fully Burdened Cost per hour	$120	500	$29,400	$60,000
Project Support/Including Field Support	Fully Burdened Cost per hour	$120	250	$14,700	$30,000
Material Specification	Fully Burdened Cost per hour	$120	640	$37,632	$76,800
Material Procurement	Fully Burdened Cost per hour	$120	320	$18,816	$38,400
Commissioning and Testing	Fully Burdened Cost per hour	$100	640	$31,360	$64,000
Construction Specification Development	Fully Burdened Cost per hour	$120	480	$28,224	$57,600
Incidentals/Mileage/ Computer Fees	Dollars	$1	$24,000	$11,760	$24,000

Initial Site Walk Downs $36,000 – DPC will conduct site walkdowns before planning work to ensure all potential impacts to work scope are well understood. This involves physically walking through the site to assess its layout, topography, existing infrastructure, and other factors that may impact the feasibility and cost of the project. The information gathered during the walk down is used to inform the design and planning of the broadband project.

Engineering Design Including CADD Documents $1,260,000 – DPC will create detailed engineering designs and Computer-Aided Design and Drafting (CADD) documents for the project. This includes developing detailed plans and specifications for the layout, construction, and implementation of the project. CADD documents may include technical drawings, schematics, and other visual representations of the design,

Outage Coordination $38,400 – This entails planning and managing service interruptions or outages that may occur during the installation or maintenance of broadband infrastructure. With this, DPC will coordinate with stakeholders to minimize the impact of outages on users and to ensure that necessary repairs and maintenance activities are completed as efficiently as possible.

Work Plan Development $60,000 – DPC will create a detailed plan for the installation, maintenance, and repair of broadband infrastructure. This will involve identifying the specific tasks required to complete the project, determining the order in which they should be completed, and estimating the time and resources needed for each task. A well-developed work plan will help ensure that the project is completed on time, within budget, and to the required quality standards.

Project Support/Including Field Support $30,000 –This entails the provision of assistance and resources to support the successful completion of the project. This includes activities such as project management, technical support, procurement, logistics, and administrative support. Field support involves providing on-site assistance and expertise to the team working on the project.

Material Specification $76,800 – DPC will identify the type, quantity, quality, and other specifications of the materials needed to complete the project. Material specifications are developed based on the requirements of the project design and are used to ensure that the materials used in the project meet the necessary standards for performance, durability, and safety.

Material Procurement $38,400 – DPC will acquire the necessary materials for the installation or maintenance of broadband infrastructure. This involves identifying the required materials based on the project design and specifications, sourcing suppliers, negotiating contracts, and placing orders. The procurement process also includes tracking and managing the delivery of materials to the project site and ensuring that they meet the necessary quality standards.

Commissioning and Testing $64,000 – This entails verifying and validating the functionality and performance of the installed broadband infrastructure, including a series of tests and checks to ensure that the system is operational, reliable, and meets the required quality standards. Commissioning typically includes the configuration of the network and software, installation and

integration of hardware and software components, and testing of the system's performance and security.

Construction Specification Development $57,600 – This refers to the process of creating detailed specifications for the construction of broadband infrastructure. This involves identifying the specific requirements for the construction process, including materials, equipment, tools, and techniques. Construction specifications are developed based on the project design and are used to ensure that the construction work is completed to the required quality standards and meets the necessary safety and regulatory requirements.

Incidentals/Mileage/ Computer Fees $24,000 – Incidentals, mileage, and computer fees are expenses are needed to cover miscellaneous expenses, such as office supplies or printing costs, the cost transportation to travel to different project sites or to meet with stakeholders, as well as software, hardware, or other technology-related expenses necessary for the project.

5. Other Architectural and Engineering Fees - $845,750

DPC engineering staff anticipates self-performing the majority of other architectural and engineering work scope associated with the TSFDP, with minor use of consultant expertise where warranted. The other architectural and engineering work includes surveying and staking, soil boring, field studies, testing, locating underground utilities, environmental permitting, environmental mitigation planning, and environmental compliance oversight and reporting. DPC is requesting $414,418 in federal funds to support this budget category, while the remaining $431,333 will be covered by DPC.

Typical DPC other architectural and engineering costs range from three to four percent. This scope of engineering work is typical, and we expect the TSFDP costs to be consistent.

Justification for Other Architectural and Engineering Costs for Federally Funded Activities:

Segment #	Segment Name	Other Engineering	Notes
X33989	Q23 Barron-Apple River Fiber	$102,936	Other Architectural & Engineering Fees
X33999	N14/N210 Adams-Twin Lakes OPGW	$136,607	Other Architectural & Engineering Fees
X34003	N8/N320 Harmony-Postville OPGW	$140,164	Other Architectural & Engineering Fees
X34005	N90 Adams-Orchard Fiber	$71,872	Other Architectural & Engineering Fees
X34006	Q21 Barron-Washco Fiber	$148,250	Other Architectural & Engineering Fees
W33405	Genoa-Harmony Fiber Retrofit	$84,223	Other Architectural & Engineering Fees
W33406	Harmony-Adams Fiber Retrofit	$83,260	Other Architectural & Engineering Fees

TBD	N204 Washco to Big Sand	$78,978	Other Architectural & Engineering Fees

A more detailed cost breakdown is provided below. These costs are estimated using recent DPC historical project cost performance. Actual costs on the TSFDP may vary:

Description	**Unit Basis**	**Unit Cost**	**Number of Units**	**Federal Funds Requested**	**Total Cost**
Survey and Staking	Fully Burdened Cost per hour	$100	640	$31,360	$64,000
Soil Boring and Geotechnical Engineering (includes Consultant Fees)	Dollars	$		$49,000	$100,000
Follow up Field Studies/Constructability Reviews	Cost per hour	$120	300	$17,640	$36,000
Pole/Structure Testing (includes Consultant Fee)	Dollars	$		$56,350	$115,000
Locating Underground Utilities (includes Consultant Fee)	Dollars	$		$3,920	$8000
Environmental Permitting	Fully Burdened Cost per hour	$140	2000	$137,200	$280,000
Environmental Mitigation Planning	Fully Burdened Cost per hour	$140	800	$54,880	$112,000
Environmental Compliance and Oversight	Fully Burdened Cost per hour	$140	800	$54,880	$112,000
Incidentals/Mileage/ Computer Fees	Dollars	$		$9,188	$18,750

<u>Survey and Staking $64,000</u> – DPC will utilize surveying equipment to accurately map the terrain and identify the precise location and dimensions of the infrastructure. DPC will also mark the location of the infrastructure on the ground, using stakes or other markers. The survey and

staking process is critical for ensuring that the broadband infrastructure is installed in the correct location and meets the necessary safety and regulatory requirements.

Soil Boring and Geotechnical Engineering (includes Consultant Fees) $100,000 – DPC will analyze the soil and subsurface conditions of the sites where the broadband infrastructure is to be installed. This will involve drilling holes into the ground and collecting soil samples for analysis. The soil will then be analyzed to determine its characteristics and properties, including bearing capacity, shear strength, and settlement characteristics. This information will be used to design the foundation and support structures for the broadband infrastructure, ensuring that it is stable and secure.

Follow up Field Studies/Constructability Reviews $36,000 – This will involve revisiting the project sites to evaluate the site conditions, materials, and equipment requirements, and identify any potential issues or challenges that may impact the project's successful completion. Constructability reviews also involve a detailed analysis of the project design to identify potential construction issues, schedule constraints, and cost implications.

Pole/Structure Testing (includes Consultant Fee) $115,000 –A series of tests will be carried out to ensure that the poles and structures can withstand the weight and stress of the infrastructure, as well as environmental factors such as wind and rain. Pole/structure testing may involve load testing, non-destructive testing, and visual inspections to identify any defects or weaknesses in the structures.

Locating Underground Utilities (includes Consultant Fee) $8000 – Through this process, DPC will mark the location of existing underground utility lines such as water, gas, and electrical lines. This involves using specialized equipment and techniques to detect and locate the presence of the utility lines, without damaging them. Locating underground utilities is critical for ensuring the safety of the construction crew and for preventing damage to existing infrastructure.

Environmental Permitting $280,000 – Through the environmental permitting process, DPC will identify and assess potential environmental impacts associated with the project and develop strategies to minimize or mitigate those impacts. Environmental permitting may involve obtaining permits for wetland or waterway crossings, forestlands, and other environmental considerations as needed.

Environmental Mitigation Planning $112,000 – This involves evaluating the project's potential impacts on natural resources, such as wetlands, forestlands, and waterways to mitigate such impacts.

Environmental Compliance and Oversight $112,000 – Through this process, DPC will monitor and ensure that the project complies with all applicable environmental regulations and permits throughout the construction process. This involves conducting regular inspections and reviews to ensure that environmental mitigation measures are in place and effective, and that the project is not causing any undue harm to the environment. Environmental compliance and oversight may involve coordinating with regulatory agencies and stakeholders, and addressing any compliance issues that arise.

Incidentals/Mileage/Computer Fees $18,750 – Incidentals, mileage, and computer fees are expenses are needed to cover miscellaneous expenses, such as office supplies or printing costs, the cost transportation to travel to different project sites or to meet with stakeholders, as well as software, hardware, or other technology-related expenses necessary for the project.

6. Project Inspection fees - $1,429,000

DPC has a good working relationship with federal, state, and local authorities that enables close collaboration on required inspections and documentation, including the Rural Utility Service (RUS). DPC also has a strong working relationship with its member electrical distribution cooperatives, tribal governing bodies, and the Burlington Northern Santa Fe (BNSF) railroad in our service area, with whom DPC works closely. In addition to externally driven inspections, and documentation, DPC also includes internal inspection, governance, and construction oversight costs into this category of expense.

DPC collaborates inspections and planning with the following agencies: Wisconsin Department of Natural Resources, Wisconsin Department of Fish and Game, Wisconsin Department of Transportation, BNSF, applicable Tribal leaders, and applicable County emergency service agencies. DPC provides inspection results and documentation regarding project performance to RUS, who is our primary source of capital lending. DPC may also need permits from cities and townships for planning purposes and will collaborate with them as necessary in securing such permits.

The overall cost of providing inspection performance validation services for the TSFDP is estimated at five percent of total project cost. DPC is requesting $700,210 in federal funds to support this budget category, while the remaining $728,790 will be covered by DPC.

Justification for Project Inspection Costs for Federally Funded Activities:

Segment #	**Segment Name**	**Inspection**	**Notes**
X33989	Q23 Barron-Apple River Fiber	$171,559	Project Inspection Fees
X33999	N14/N210 Adams-Twin Lakes OPGW	$227,678	Project Inspection Fees
X34003	N8/N320 Harmony-Postville OPGW	$233,606	Project Inspection Fees
X34005	N90 Adams-Orchard Fiber	$131,787	Project Inspection Fees
X34006	Q21 Barron-Washco Fiber	$247,084	Project Inspection Fees
W33405	Genoa-Harmony Fiber Retrofit	$140,371	Project Inspection Fees
W33406	Harmony-Adams Fiber Retrofit	$138,767	Project Inspection Fees

TBD	N204 Washco to Big Sand	$138,148	Project Inspection Fees

A more detailed cost breakdown is provided below. These costs are estimated using recent DPC historical project cost performance. Actual costs on the TSFDP may vary.

Description	**Unit Basis**	**Unit Cost**	**Number of Units**	**Federal Funds Requested**	**Total Cost**
Inspect Threatened and Endangered Species (includes Consultant)	Dollars	$		$24,500	$50,000
Inspect Archeological/Historical (includes Consultant)	Dollars	$		$58,800	$120,000
Inspection for Erosion Impacts (SWPPP)	Fully Burdened Cost per hour	$120	3120	$183,456	$374,400
Inspect/Coordinate for Railroad Crossings including Flagging Operations	Dollars	$		$75,460	$154,000
Inspection/Coordinate Local, State, Federal, Road Crossings	Dollars	$		$73,500	$150,000
Coordination with FAA	Fully Burdened Cost per hour	$80	500	$19,600	$40,000
Inspection of Impacts to Agricultural Lands (includes Consultant)	Dollars	$		$24,500	$50,000
Wetland Mitigations	Dollars	$		$227,850	$465,000
Inspections related to Local Conditional Use Permits	Fully Burdened Cost per hour	$80	320	$12,544	$25,600

<u>Inspect Threatened and Endangered Species (includes Consultant) $50,000</u> – Surveys or assessments of the project's service area will be conducted to identify any threatened or endangered species that may be impacted by the project.

Inspect Archeological/Historical (includes Consultant) $120,000 – DPC will conduct an assessment of the project's service area to identify any significant archeological or historical resources that may be impacted by the project. This may involve conducting surveys, reviewing historical records, and consulting with experts in archeology or historic preservation. This will ensure that any potential impacts to cultural resources are identified and addressed appropriately during the project planning and implementation stages.

Inspection for Erosion Impacts (SWPPP) $374,400 – This entails monitoring the project site for erosion and sedimentation issues during and after construction, as required by the project's Stormwater Pollution Prevention Plan (SWPPP). This task may involve regular inspections to ensure that appropriate erosion and sediment control measures are in place and effective, as well as implementing corrective actions if necessary.

Inspect/Coordinate for Railroad Crossings including Flagging Operations $154,000 – DPC will ensure the safety of the project team and any nearby railroad operations during the construction or installation of the broadband infrastructure near or across a railroad crossing. This task involves coordinating with applicable railroad companies to schedule any necessary flagging operations to stop train traffic during the construction, as well as conducting inspections to ensure that all safety measures are in place and being followed.

Inspection/Coordinate Local, State, Federal, Road Crossings $150,000 – DPC will coordinate with the relevant local, state, and federal authorities to obtain any necessary permits or approvals for the work, as well as conduct inspections to ensure that all safety measures are in place and being followed.

Coordination with FAA $40,000 – DPC will ensure that the project does not interfere with any nearby air traffic or navigational aids. This involves obtaining any necessary permits or approvals from the FAA, as well as implementing any required safety measures or operational restrictions.

Inspection of Impacts to Agricultural Lands (includes Consultant) $50,000 – DPC will assess the potential impacts that the project may have on nearby agricultural lands. This involves evaluating how the project may affect soil quality, crop yields, water resources, or other agricultural practices due to the rurality of the project's service area.

Wetland Mitigations $465,000 – DPC will take measures to compensate for the loss of wetland areas that may occur during the construction or installation of the broadband infrastructure. This involves assessing the ecological value of identified wetlands and developing a plan for their replacement or restoration.

Inspections related to Local Conditional Use Permits $25,600 – DPC will conduct inspections and evaluations to ensure that the project is in compliance with any conditions or requirements specified in the local conditional use permits. This entails reviewing the permits and any related documentation, conducting site visits to assess the project's impact on the surrounding areas, and coordinating with local authorities as needed.

7. Site Work Fees - $846,000

The scope of work covered by Site Work for the TSFDP includes building access roads, establishing equipment and material lay-down yards, establishing crew working and break facilities, right of way preparation, and post construction ground restoration. These activities require movement of labor and equipment to multiple locations along the 240 miles of right-of-way included in the TSFDP. These activities require excavation, grading, adding road bed material, installing construction matting, and land restoration to original condition post construction. These activities are normal and typically performed by DPC employees, with the exception of post construction restoration. DPC uses a registered land restoration contractor to return the land to its original state in compliance with state requirements.

The overall cost of providing inspection performance validation services for the TSFDP is estimated at five percent of total project cost. DPC is requesting $414,540 in federal funds to support this budget category, while the remaining $431,460 will be covered by DPC.

Justification for Segment Inspection Costs for Federally Funded Activities:

Segment #	Segment Name	Site Work	Notes
X33989	Q23 Barron-Apple River Fiber	$102,936	Site Work Expense
X33999	N14/N210 Adams-Twin Lakes OPGW	$136,607	Site Work Expense
X34003	N8/N320 Harmony-Postville OPGW	$140,164	Site Work Expense
X34005	N90 Adams-Orchard Fiber	$71,872	Site Work Expense
X34006	Q21 Barron-Washco Fiber	$148,250	Site Work Expense
W33405	Genoa-Harmony Fiber Retrofit	$84,223	Site Work Expense
W33406	Harmony-Adams Fiber Retrofit	$83,260	Site Work Expense
TBD	N204 Washco to Big Sand	$78,688	Site Work Expense

A more detailed cost breakdown is provided below. These costs are estimated using recent DPC historical project cost performance. Actual costs on the TSFDP may vary.

Description	Unit Basis	Unit Cost	Number of Units	Federal Funds Requested	Total Cost

Building Access Roads	Dollars	$		$122,500	$250,000
Establishing Laydown Yards/Includes Crew Facticity's	Dollars	$		$39,200	$80,000
R/W Preparations (Contracted Vegetation Management)	Dollars	$		$196,000	$400,000
Post Construction Ground Restoration (assumes primary winter construction)	Dollars	$		$56,840	$116,000

Building Access Roads $250,000 – DPC will construct the access roads that will be used to transport personnel, equipment, and materials to and from the project work sites. This may involve surveying and designing the road layout, preparing the construction site, grading and compacting the roadbed, and installing drainage and erosion control measures.

Establishing Laydown Yards/Includes Crew Facticity's $80,000 – DPC will identify and prepare suitable locations for temporary storage of equipment, materials, and supplies that will be used during the project. This involves assessing the project site and identifying appropriate areas for staging and storage, preparing the sites by grading and compacting the ground, installing any necessary fencing or security measures, and establishing crew facilities such as restrooms or break areas.

R/W Preparations (Contracted Vegetation Management) $400,000 – DPC will prepare the right-of-way (R/W) for the installation of the broadband infrastructure. This task may involve contracting vegetation management services to clear or trim any trees, shrubs, or other vegetation that may interfere with the project or pose a safety hazard.

Post Construction Ground Restoration (assumes primary winter construction) $116,000 – DPC will leverage a consultant to restore the project area after construction is complete, assuming that the construction primarily took place during the winter season. This task may involve repairing any damage to the ground, such as ruts, erosion, or compaction caused by heavy equipment or machinery, and restoring vegetation in the affected areas.

8. Demolition and Removal - $1,410,400

The DCP scope for demolition and removal on the TSFDP is associated with activities that remove and dispose of existing shield wire and hardware from the existing system in order to allow for the installation of the new high-capacity fiber. The estimated cost for removal of the shield wire and other structures makes up five percent of the overall TSFDP budget. DPC is requesting $691,096 in federal funds to support this budget category, while the remaining $719,304 will be covered by DPC.

Justification for TSFDP Inspection Costs for Federally Funded Activities:

Segment #	Segment Name	Demolition	Notes
X33989	Q23 Barron-Apple River Fiber	$171,559	Demolition and Removal
X33999	N14/N210 Adams-Twin Lakes OPGW	$227,678	Demolition and Removal
X34003	N8/N320 Harmony-Postville OPGW	$233,606	Demolition and Removal
X34005	N90 Adams-Orchard Fiber	$119,787	Demolition and Removal
X34006	Q21 Barron-Washco Fiber	$247,084	Demolition and Removal
W33405	Genoa-Harmony Fiber Retrofit	$140,371	Demolition and Removal
W33406	Harmony-Adams Fiber Retrofit	$138,767	Demolition and Removal
TBD	N204 Washco to Big Sand	$131,148	Demolition and Removal

A more detailed cost breakdown is provided below. These costs are estimated using recent DPC historical project cost performance. Actual costs on the TSFDP may vary.

Description	Unit Basis	Unit Cost	Number of Units	Federal Funds Requested	Total Cost

Mobilize Onto Site	Fully Burdened Cost per hour	80	7000	$274,400	$560,000
Switching and Grounding	Fully Burdened Cost per hour	$80	900	$35,280	$72,000
Unclip Existing Static Wire Set Stringing Blocks	Fully Burdened Cost per hour	$80	7000	$274,400	$560,000
Hook into Existing Static Wire/ to Start Pull of New	Fully Burdened Cost per hour	$80	3750	$147,000	$300,000
Salvage Value of Existing Shield Wire	Mile	-$340	240	-$39,984	-$81,600

Mobilize Onto Site $560,000 – DPC will mobilize all necessary personnel, equipment, and materials to the project work sites in preparation for the construction or installation activities. This involves coordinating logistics, transportation, and staffing arrangements, ensuring that all equipment is in working order and properly calibrated, and conducting safety briefings and training for personnel.

Switching and Grounding $72,000 – Through this process, DPC will ensure that electrical circuits and equipment are properly grounded and protected against electrical faults or surges. This involves testing and inspecting electrical systems, identifying and correcting any grounding or safety hazards, and ensuring that all equipment and personnel are properly grounded and protected.

Unclip Existing Static Wire Set Stringing Blocks $560,000 – This process entails removing or releasing existing static wire set stringing blocks that may be in place on utility poles or other structures. Staff will carefully disconnect or release the existing stringing blocks, inspecting the condition of the blocks and associated hardware, and determining whether the blocks need to be replaced or reused in the project.

Hook into Existing Static Wire/ to Start Pull of New $300,000 – This process involves carefully attaching the new wire to the existing static wire, inspecting the connection to ensure that it is secure and properly aligned, and then beginning the process of pulling the new wire through the appropriate pathway.

Salvage Value of Existing Shield Wire -$81,600 – DPC will evaluate and determine the potential value of any existing shield wire that is being replaced or removed as part of the broadband project. Shield wire is typically used for grounding and lightning protection purposes and may have some scrap or salvage value depending on its condition and market demand for such materials.

9. Construction - $10,064,000

DPC intends to utilize a combination of internal construction crews and contract crews to perform the construction work on this project. The specific assignments are not yet set and are subject to change based on other work within the DPC transmission system. The scope of the TSFDP includes the rebuild or retrofit of 247.36 miles of fiber telecommunication transmission system. The miles breakdown for the construction activity is included below. DPC is requesting $4,931,360 in federal funds to support this budget category, while the remaining $5,132,640 will be covered by DPC.

Miles Associated with TSFDP:

Segment #	**Segment Name**	**Miles**
X33989	Q23 Barron-Apple River Fiber	24.20
X33999	N14/N210 Adams-Twin Lakes OPGW	35.02
X34003	N8/N320 Harmony-Postville OPGW	34.64
X34005	N90 Adams-Orchard Fiber	21.49
X34006	Q21 Barron-Washco Fiber	27.40
W33405	Genoa-Harmony Fiber Retrofit	39.99
W33406	Harmony-Adams Fiber Retrofit	39.13
TBD	N204 Washco to Big Sand	18.36

Construction activities include mobilization of labor resources, materials, and equipment, staging material and equipment yards, establishing and maintaining control of material and inventory, installation of new hardware as specified, installation/stringing of new overhead fiber conductor, installing fiber connection points, and installing and connecting underground fiber as specified. Crews are expected to monitor and adhere to the project construction schedule and provide regular feedback to the project management organization in order to ensure accurate project status for reporting and cost tracking.

Construction costs vary depending on several variables including land terrain, complexity, weather, accessibility, wetland status, endangered species status, etc., Due to the variability, DPC has established a construction cost per mile estimate that ranges from $25,500 to $65,000 per mile across the TSFDP with an average of $42,260 per mile. Construction costs are generally the largest cost associated with large-scale transmission and telecommunications projects. The construction costs on the TSFDP comprise 37% of the budget. The tables below outline the cost per mile and the overall construction cost for each segment of the Tri-State Fiber Deployment.

TSFDP Construction Cost per Mile:

Segment #	Segment Name	Cost/Mile
X33989	Q23 Barron-Apple River Fiber	$51,042
X33999	N14/N210 Adams-Twin Lakes OPGW	$46,810
X34003	N8/N320 Harmony-Postville OPGW	$48,556
X34005	N90 Adams-Orchard Fiber	$40,135
X34006	Q21 Barron-Washco Fiber	$64,927
W33405	Genoa-Harmony Fiber Retrofit	$25,273
W33406	Harmony-Adams Fiber Retrofit	$25,533
TBD	N204 Washco to Big Sand	$51,463

Justification for Project Construction Costs for Federally Funded Activities:

Segment #	Segment Name	Total Cost
X33989	Q23 Barron-Apple River Fiber	$1,225,227
X33999	N14/N210 Adams-Twin Lakes OPGW	$1,613,281
X34003	N8/N320 Harmony-Postville OPGW	$1,655,966
X34005	N90 Adams-Orchard Fiber	$862,465
X34006	Q21 Barron-Washco Fiber	$1,753,006
W33405	Genoa-Harmony Fiber Retrofit	$1,010,673
W33406	Harmony-Adams Fiber Retrofit	$999,124
TBD	N204 Washco to Big Sand	$944,258

A more detailed cost breakdown is provided below. These costs are estimated using recent DPC historical project cost performance. Actual costs on the TSFDP may vary:

Description	Unit Basis	Unit Cost	Number of Units	Federal Funds Requested	Total Cost
Demobilization	Fully Burdened Cost per hour	$80	7000	$274,400	$560,000

Transportation of Materials around Site	Fully Burdened Cost per hour	$80	6375	$249,900	$510,000
Setting of Work Matts	Fully Burdened Cost per hour	$80	12500	$490,000	$1,000,000
Pull new Fiber into Position	Fully Burdened Cost per hour	$80	25,000	$980,000	$2,000,000
Sagging of new Fiber	Fully Burdened Cost per hour	$80	12,500	$490,000	$1,000,000
Attach new Fiber into final position	Fully Burdened Cost per hour	$80	25,000	$980,000	$2,000,000
Unclip from Stringing Blocks & Remove Blocks	Fully Burdened Cost per hour	$80	7000	$274,400	$560,000
Splicing and Terminations of all Fiber	Fully Burdened Cost per hour	$80	25,000	$980,000	$2,000,000
Removal of Work Matting	Fully Burdened Cost per hour	$80	12500	$35,280	$72,000
Removal of all Grounds, Switch Line Back to Normal Operations	Fully Burdened Cost per hour	$80	900	$35,280	$72,000
Small Tools and Consumables	Dollars	$		$142,100	$290,000

Demobilization $560,000 – Demobilization involves dismantling and removing any temporary structures, removing all equipment and materials from the work site, and ensuring that all waste materials are properly disposed of. This will enable DPC to complete the project in a safe and

efficient manner, minimize any impact on the surrounding environment, and leave the site in a clean and orderly state.

Transportation of Materials around Site $510,000 – This process entails the movement of various materials required for the project from one location to another within the work site. This involves the use of trucks, forklifts, or other machinery to transport materials such as cables, equipment, and tools from storage areas to the work area.

Setting of Work Matts $1,000,000 – DPC will place temporary ground coverings or mats on the ground to protect the soil, vegetation, and other sensitive areas from damage during the construction process.

Pull new Fiber into Position $2,000,000 – DPC will install new fiber optic cable using contractor resources for some of this work. This will involve the use of specialized equipment, such as fiber optic pulling machines, to pull the cable through the designated pathway.

Sagging of new Fiber $1,000,000 – DPC will adjust the tension and positioning of fiber optic cable along the identified routes. This will entail the use of specialized equipment, such as a fiber optic cable tensioner, to apply the correct amount of tension to the cable and ensure that it is properly positioned and supported.

Attach new Fiber into final position $2,000,000 – The OPGW will be secured in its final position after it has been pulled and sagged. This entails the use of specialized equipment, such as cable brackets, clamps, or ties, to attach the cable to the supporting infrastructure, such as poles or towers.

Unclip from Stringing Blocks & Remove Blocks $560,000 – This process entails removing the stringing blocks used during the installation of fiber optic cable. The blocks are detached from the poles or towers and lifted off using cranes or hoists. This task requires specialized equipment such as cable cutters, clips, and lifting tools.

Splicing and Terminations of all Fiber $2,000,000 –Splicing and terminations involve the use of specialized equipment and techniques to ensure optimal performance and minimize signal loss. This task is critical to the successful installation and operation of the network and requires highly skilled technicians.

Removal of Work Matting $72,000 – DPC will remove temporary work surfaces that were installed to provide a stable and safe platform for workers and equipment during construction. Once the project is complete, the work matting needs to be removed, and the site must be restored to its original condition.

Removal of all Grounds, Switch Line Back to Normal Operations $72,000 – Staff will remove grounding systems installed to protect workers and equipment during the construction phase and returning the electrical system to its normal state after construction work is completed. This involves removing temporary switching and grounding arrangements used during construction and ensuring that all electrical equipment and systems are operating safely and efficiently.

Small Tools and Consumables $290,000 – This entails the various tools, equipment, and materials required for the day-to-day work of the project, such as hand tools, power tools, safety gear, cleaning supplies, and other miscellaneous items that are used up or depleted during the course of the work.

10. Equipment - $0

11. Miscellaneous Expense - $9,021,428

DPC has estimated the miscellaneous expenses to be in the range of 2% of project value. The table below provides the budget miscellaneous expenses.
The equipment (miscellaneous expense) maintained by DPC and used to support the TSFDP are typical to both telecommunication and transmission line work. It includes all vehicles and equipment needed to support mobilization/demobilization, construction, and all other aspects of the work.

DPC requests $4,420,500 of the total cost for this budget category be subsidized by federal funds, while the remaining $4,600,928 be covered by DPC.

Justification for Miscellaneous Costs for Federally Funded Activities:

Segment #	Segment Name	Construction	Notes
X33989	Q23 Barron-Apple River Fiber	$62,624	Miscellaneous Expense
X33999	N14/N210 Adams-Twin Lakes OPGW	$87,071	Miscellaneous Expense
X34003	N8/N320 Harmony-Postville OPGW	$89,443	Miscellaneous Expense
X34005	N90 Adams-Orchard Fiber	$47,915	Miscellaneous Expense
X34006	Q21 Barron-Washco Fiber	$90,834	Miscellaneous Expense
W33405	Genoa-Harmony Fiber Retrofit	$50,149	Miscellaneous Expense
W33406	Harmony-Adams Fiber Retrofit	$50,507	Miscellaneous Expense
TBD	N204 Washco to Big Sand	$51,457	Miscellaneous Expense

A more detailed cost breakdown is provided below. These costs are estimated using recent DPC historical project cost performance. Actual costs on the TSFDP may vary.

Description	Unit Basis	Unit Cost	Number of Units		Total Cost
Integrate New Underground Facilities into Universal "One-Call" system	Fully Burdened Cost per hour	$80	160	$6,272	$12,800
Retention of Final Documents	Fully Burdened Cost per hour	$110	960	$51,744	$105,600
Entering Final Equipment into Asset Management System	Fully Burdened Cost per hour	$80	160	$6,272	$12,800
Final As-Bult Closeouts	Fully Burdened Cost per hour	$110	320	$17,248	$35,200
Site Specific or Project Specific Trainings (includes Safety Briefings)	Fully Burdened Cost per hour	$110	400	$21,560	$44,000
Onsite Safety Professionals	Fully Burdened Cost per hour	$120	2230	$131,124	$267,600
PPE	Dollars	$		$9,800	$20,000
Required Road Signage	Dollars	$		$7,840	$16,000
Work Methods Coordinator	Fully Burdened Cost per hour	$100	160	$7,840	$16,000

Integrate New Underground Facilities into Universal "One-Call" system $12,800 – DPC will notify Universal One-Call System authorities of the newly installed underground infrastructure to prevent damage from future digging or excavation activities. This involves providing location information and ensuring that the infrastructure is properly marked and protected.

Retention of Final Documents $105,600 – DPC will organize and store all final documents related to the project such as design plans, construction reports, and permits for future reference or use. This will ensure that all necessary documents are available in case of any legal or regulatory issues that may arise after the project is completed.

Entering Final Equipment into Asset Management System $12,800 – DPC will record the details and specifications of all the equipment and assets installed during the broadband project in a centralized system to keep track of their location, status, and maintenance schedules. This system will help ensure that all equipment is properly maintained, inventoried, and accounted for, maximizing their lifespan and avoiding unnecessary expenses.

Final As-Bult Closeouts $35,200 – This entails the creation of a final record of the completed project, which includes any changes or modifications made to the original design during construction. This includes updating design plans and documentation to reflect the final state of the project, which is important for future maintenance, repairs, and upgrades.

Site Specific or Project Specific Trainings (includes Safety Briefings) $44,000 – Training programs will be created for specific project sites. They will include safety briefings and other required training that the workers and staff need to undertake before starting the work on-site to ensure their safety and the project's successful completion. These trainings may cover various topics, such as equipment operation, safety procedures, environmental regulations, and project-specific protocols.

Onsite Safety Professionals $267,600 – Safety professionals (tbd) will be responsible for ensuring the safety of workers, equipment, and the public during construction activities. They will develop and implement safety plans, conduct safety audits, and provide training to workers on safety procedures and equipment usage. These professionals will work closely with project managers and contractors to ensure that safety standards and regulations are met or exceeded.

PPE $20,000 – Specialized gear that workers will wear to protect themselves from job-related hazards. This may include hard hats, safety glasses, gloves, steel-toed boots, and high-visibility vests.

Required Road Signage $16,000 – This includes signs that to be posted along the roadways to warn drivers and pedestrians of construction activity and to ensure safety. These signs may include messages about lane closures, detours, reduced speed limits, and other traffic-related instructions that are necessary for the safe movement of workers and equipment. The signage will meet regulatory and safety standards.

Work Methods Coordinator $16,000 – Staff will coordinate and manage the development of work plans and procedures to ensure that work activities are conducted safely, efficiently, and

effectively. They will work closely with project managers, supervisors, and workers to establish procedures for each task, review and assess procedures, and make changes as necessary to improve work methods. They are also responsible for monitoring work activities to ensure that they are in compliance with established procedures and regulations.

The majority of construction equipment needed to support the TSFDP is included below. Additional equipment may be utilized on an as needed basis.

Construction Equipment	
Skid Steers	Utility Terrain Vehicles
100' Bucket Trucks	Tensioning Trailers
60' Bucket Trucks	Rope Trailers
Panel trucks	Framing Trailers
Air Compressor Truck	Tool Trailers
Cranes	Dolly Trailers
Dump Trucks	T40 Flatbed Trailers
Boom Trucks	Job Site Trailers
Truck Mounted Pressure Diggers	Connex Storage Boxes
Wire Winder Trucks	Semi Warehouse Trailers
Matting Trucks	Small Utility Trailers
All-Terrain Vehicles	Pole Trailers
Pickup Trucks	Reel Stands

Equipment costs are generally the second largest component of large-scale transmission or telecommunications projects. For the TSFDP equipment costs comprise 30% of the project cost.

For the miscellaneous equipment costs, it is derived from the rate Dairyland Power Cooperative charges for the usage of our equipment, which covers normal wear and tear, or obsolescence. Dairyland Power Cooperative already owns the equipment that is listed.

The table below provides the estimated cost of equipment on the TSFDP.

Justification for Project Equipment Costs for Federally Funded Activities:

Segment #	**Segment Name**	**Equipment Cost**	**Notes**
X33989	Q23 Barron-Apple River Fiber	$1,029,356	Equipment Expense
X33999	N14/N210 Adams-Twin Lakes OPGW	$1,366,068	Equipment Expense
X34003	N8/N320 Harmony-Postville OPGW	$1,401,639	Equipment Expense
X34005	N90 Adams-Orchard Fiber	$728,721	Equipment Expense

X34006	Q21 Barron-Washco Fiber	$1,482,505	Equipment Expense
W33405	Genoa-Harmony Fiber Retrofit	$843,684	Equipment Expense
W33406	Harmony-Adams Fiber Retrofit	$842,604	Equipment Expense
TBD	N204 Washco to Big Sand	$796,851	Equipment Expense

A more detailed cost breakdown is provided below. These costs are estimated using recent DPC historical project cost performance. Actual costs on the TSFDP may vary.

Cost per Hour for Typical Crew Equipment Configuration:

Construction Equipment	**Count**	**Unit $/hr**	**$/hr**
Skid steer	2	$42.30	$84.60
100' bucket	2	$88.75	$177.50
60' bucket	0	$42.00	$0.00
Panel trucks	1	$20.25	$20.25
Air comp truck	0.5	$12.40	$6.20
Dump truck	0.5	$45.85	$22.93
Boom truck	0.5	$61.25	$30.63
Pressure digger	0.25	$104.25	$26.06
Wire winder truck	0.5	$74.80	$37.40
Mat truck	0.25	$45.00	$11.25
Dump truck	0.5	$49.00	$24.50
UTV	1	$22.20	$22.20
Tensioning trailer	0.5	$58.00	$29.00
Rope trailer	1	$62.75	$62.75
Framing trailer	0.75	$18.90	$14.18
Tool trailer	1	$3.65	$3.65
Dolly trailer	0.5	$3.65	$1.83
T40 Flatbed trailer	0.5	$18.90	$9.45
Job site trailer	1		$0.00
Connex boxes	2	$2.15	$4.30
Semi warehouse trailer	1	$2.85	$2.85
Small trailer	2	$3.65	$7.30
Crane	0.25	$138.40	$34.60
Pole Trailer	0.5	$7.80	$3.90
Reel Stand	1	$9.90	$9.90
Unit Cost Per Hour			**$647.21**

Skid Steers: Small, compact, and versatile machines used for a variety of construction and maintenance tasks.

Utility Terrain Vehicles: Off-road vehicles designed for utility purposes, such as transporting equipment and personnel on rough terrain.

100' Bucket Trucks: Vehicles with an aerial platform mounted on a hydraulic arm used for elevated work, such as transmission line construction and maintenance.

Tensioning Trailers: Trailers used to apply tension to fiber optic cables during installation.

60' Bucket Trucks: Similar to 100' bucket trucks but with less working height.

Rope Trailers: Trailers used to store and transport ropes used for cable installation and maintenance.

Panel trucks: Trucks with enclosed cargo space used for transporting equipment and materials.

Framing Trailers: Trailers used for transporting framing materials and tools for construction projects.

Air Compressor Truck: Trucks equipped with air compressors used for powering pneumatic tools and equipment.

Tool Trailers: Trailers used for transporting tools and equipment to job sites.

Cranes: Machines used for lifting and moving heavy loads.

Dolly Trailers: Trailers used to transport heavy equipment, such as generators and compressors.

Dump Trucks: Trucks with an open bed used for transporting loose materials, such as soil or gravel.

T40 Flatbed Trailers: Flatbed trailers used for transporting heavy equipment or materials.

Boom Trucks: Trucks with a hydraulic boom used for lifting and moving heavy loads.

Job Site Trailers: Trailers used for on-site offices, storage, and break rooms.

Truck Mounted Pressure Diggers: Machines used for digging holes for poles and anchors.

Connex Storage Boxes: Modular containers used for storage and transport of equipment and materials.

Wire Winder Trucks: Trucks equipped with machinery for coiling and spooling wire.

Semi Warehouse Trailers: Large trailers used for long-haul transportation and storage.

Matting Trucks: Trucks equipped with temporary matting used for creating temporary roads and walkways on job sites.

Small Utility Trailers: Small trailers used for transporting equipment and materials.

All-Terrain Vehicles: Vehicles designed for off-road use, used for transportation on job sites and in remote areas.

Pole Trailers: Trailers used for transporting poles and other long items.

Pickup Trucks: Light-duty trucks used for transportation of equipment and personnel.

Reel Stands: Stands used for holding and dispensing cable reels during installation.

The overall TSFDP construction is estimated at a total working duration of 328 work weeks. This reflects multiple sections of work taking place in parallel as currently scheduled within three-year calendar timeline. Using typical equipment configuration list provided above at an estimated hourly rate of $647.21 per hour (see above), the cost per week is $25,889 per week using a 40-hour work week. Using a total of 328 work weeks at a rate of $25,889, the total equipment cost for the project is estimated at close to $8,491,428.
This is an estimate only, actual costs on the TSFDP may vary.

12. SUBTOTAL (sum of lines 1-11) - $27,503,378.00

The subtotal of the TSFDP costs are provided in the table below:

DPC TSFDP Cost Subtotal	**Cost**
Administrative and Legal Expenses	$791,600
Land, Structures, Right of Way, Appraisals, etc.	$846,000
Relocation Expenses and Payments	$564,000.00
Architectural and Engineering Fees	$1,685,200
Other Architectural and Engineering Fees	$845,750
Project Inspections Fees	$1,429,000
Site Work	$846,000
Demolition and Removal (Retirement)	$1,410,400
Construction	$10,064,000
Equipment	$0
Miscellaneous	$9,021,428
Total	**$27,503,378.00**

13. Contingencies - $2,884,536

DPC identifies contingency funding for all of its large transmission and telecommunication projects. The contingency is based on known and unknown risk to the project and is included in the budget as an estimate of future costs associated with possible events or conditions arising from causes the precise outcome of which is indeterminable at the time of estimate, and that experience shows will likely result, in aggregate, in additional costs for the approved activity or project.

DPC utilizes broadly accepted transmission/telecommunication project estimating methodologies and has extensive experience in estimating and performing these scopes of work. For these reasons, DPC has limited the contingency value to 10% of total project cost, on the lower end of that recommended by federal guidelines and accepted by NTIA. The anticipated contingency for the MMGP is provided in the table below. DPC is requesting $1,413,423 in federal funds to support this budget category, while the remaining $1,471,113 will be covered by DPC.

Justification for Contingency Costs for Federally Funded Activities:

Segment #	**Segment Name**	**Contingency**	**Notes**
X33989	Q23 Barron-Apple River Fiber	$351,319	Contingency
X33999	N14/N210 Adams-Twin Lakes OPGW	$462,556	Contingency
X34003	N8/N320 Harmony-Postville OPGW	$474,413	Contingency
X34005	N90 Adams-Orchard Fiber	$246,774	Contingency
X34006	Q21 Barron-Washco Fiber	$501,386	Contingency
W33405	Genoa-Harmony Fiber Retrofit	$287,661	Contingency
W33406	Harmony-Adams Fiber Retrofit	$287,943	Contingency
TBD	N204 Washco to Big Sand	$272,484	Contingency

14. SUBTOTAL (sum of lines 12-13) - $30,387,913.86

DPC TSFDP Cost Summary	**Cost**
Administrative and Legal Expenses	$791,600
Land, Structures, Right of Way, Appraisals, etc.	$846,000
Relocation Expenses and Payments	$564,000.00
Architectural and Engineering Fees	$1,685,200
Other Architectural and Engineering Fees	$845,750
Project Inspections Fees	$1,429,000
Site Work	$846,000

Demolition and Removal (Retirement)	$1,410,400
Construction	$10,064,000
Equipment	$0
Miscellaneous	$9,021,428
Contingencies	$2,884,536
Total	**$30,387,913.86**

15. Project (program) income - $0

DPC is a non-profit cooperative and exempt from federal and state income tax, whose core business is generation and transmission of wholesale power to our 24 distribution cooperative members in rural Wisconsin, Minnesota, Iowa, and Illinois. Each of the 24 owning members are also non-profit entities and exempt from paying federal or state income taxes. On an annual basis, the 24 members work with DPC to establish the wholesale power rates. These rates cover both O&M expenses and capital expenses. Throughout the year, DPC monitors financial performance and returns margin to the members or bills them for losses, such that at the end of the year DPC achieves a net zero balance.

As it relates to income from the TSFDP, any positive margins over cost will be returned to the members as part of the overall annual margin distribution. Any financial loss would be reimbursed by the members as a part of the annual "true-up" and most likely be funded out of revenue earned by the members.

DPC commits to offering non-discriminatory interconnection to terrestrial and wireless last mile broadband providers and any other party making a bona fide request while simultaneously honoring the inherent parameters associated with being a generation and transmission cooperative and owner/operator of bulk electric system facilities. DPC's commitment is to allow non-discriminatory, carrier-neutral interconnection with other parties and providers, provided they meet the requirements under Section 60401(d)(2)(C) of the Infrastructure Act. DPC's commitment is to allow non-discriminatory, carrier-neutral interconnection with other parties and providers, provided they meet the requirements under 60401(d)(2)(C) of the of the Infrastructure Act and with consideration given to DPC's business model and member cooperatives' agreements and fiscally sustainable middle mile strategies.

The value to DPC's members reflects potential retail market value. Such value is that the project will make high speed broadband internet available to the thousands of currently underserved rural households at more affordable rates and will bring broadband service to some rural areas currently without broadband service. The TSFDP will dramatically increase access, capacity, and reliability, resulting in providing high speed broadband to the underserved residents in DPC's rural service territory.

16. TOTAL PROJECT COSTS - $30,387,913.86