



Northern Natural Gas Company
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February 27, 2026

Via eFiling

Ms. Debbie-Anne Reese, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, D.C. 20426

Re: Northern Natural Gas Company
Ventura to Farmington A-line Replacement and Northern Lights 2027 Expansion Projects
Docket No. CP26- -000

Dear Ms. Reese:

Northern Natural Gas Company (Northern) hereby submits for filing, pursuant to Section 7 of the Natural Gas Act and Section 157 of the Federal Energy Regulatory Commission's (FERC or Commission) regulations, an application requesting authorization to (1) abandon in-place approximately 131 miles of Northern's A-line and J-line and associated aboveground appurtenant facilities and (2) construct, modify and operate certain pipeline and compression facilities and associated aboveground appurtenant facilities, all located within various counties in Iowa and Minnesota. The application is composed of two discrete projects, the Ventura to Farmington A-line Abandonment and Capacity Replacement Project (V2F Project) and the Northern Lights 2027 Expansion Project (NL27 Project). The two projects are being filed together with the Commission because proposed extensions on two of the pipelines (Lake Mills M500 E-line and Albert Lea M500 E-line) are required for each project and will be constructed concurrently

The filing is comprised of the following:

Application (Public Information)

- This transmittal letter
- Section 7 application
- Federal Register notice
- Exhibits A through P and Y and Z
- Two Xcel files of Northern's calculations of allowance for funds used during construction (V2F and NL27)

Volume I – (Public Information)

- Exhibit F-1 Environmental Report - Resource Reports (RR) 1 through 13
- Xcel File of Stakeholder List (Appendix 1B)

Volume II (Privileged)

- Section 7 Exhibit I (market data – customer agreements)
- RR1 Figures 1-7 and 1-8 (privileged alignment sheets/aerials for V2F and NL27, respectively)
- RR1 Appendix 1C (landowner list)
- RR1 Appendix 1H (biological & cultural data by MP for A-line – V2F)
- RR3 Appendix 3B (agency consultation figures)
- RR3 Appendix 3C (rare T&E habitat assessment reports for V2F and NL27; Figure 2 for RTE reports filed as privileged)
- RR4 Appendix 4 (Cultural Resources Reports)
- Xcel Format of Landowner List (Appendix 1C)

Volume III (Critical Energy Infrastructure Information – CEII)

- Exhibit G (flow diagrams showing daily design capacity)
- Exhibit G-1 and G-II (flow diagrams data)
- RR1 Figures 1-12 and 1-13 (facility plot plans for V2F and NL27, respectively)

Northern is filing this application electronically. Gregg models are being mailed separately on a flash drive.

Volume II, which contains confidential and proprietary information regarding customer agreements, landowner names and addresses, and specific information on the location of cultural resources and T&E species, has been labeled “**CUI//PRIV --- DO NOT RELEASE (PRIVILEGED).**” Volume III provides plot plans and specific operating and engineering details and has been labeled “**CUI//CEII --- DO NOT RELEASE (CRITICAL ENERGY INFRASTRUCTURE INFORMATION).**” Pursuant to 18 CFR section 388.112, Northern requests confidential and privileged treatment of the information contained in Volumes II and III due to the confidential and proprietary nature of the contents.

The person to be contacted regarding the request for privileged and confidential treatment is as follows:

Donna Martens
Senior Regulatory Analyst
Northern Natural Gas Company
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Any questions regarding this filing should be directed to the undersigned at (402) 398-7138.

Respectfully submitted,

/signed/ Donna Martens

Donna Martens
Senior Regulatory Analyst

NORTHERN NATURAL GAS COMPANY

**ABBREVIATED APPLICATION FOR AN ORDER
PERMITTING AND APPROVING ABANDONMENT OF FACILITIES AND REQUESTING A
CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY**

**Ventura to Farmington A-line Replacement and Northern Lights 2027 Expansion
Projects**

Docket No. CP26- -000

Date filed: February 27, 2026

of the pipelines (Lake Mills M500 E-line and Albert Lea M500 E-line) are required for each project and will be constructed concurrently.

Northern requests the Commission issue an order granting approval for the V2F and NL27 projects as expeditiously as possible, but no later than February 4, 2027. Issuance of an order by February 4, 2027, will enable Northern to timely receive a notice to proceed with construction and facilitate the clearing of trees and/or shrubs thereby limiting potential impacts to (1) the Northern long-eared bat (NLEB) during their active season (April 1 to October 31); (2) oak trees when they are most susceptible to oak wilt infection (normally April 1 through July 15); and (3) nests of migratory birds during nesting activities, which occurs primarily from April 15 to August 1. In addition, allowing timely access to the right of way and topsoil stripping will allow Northern to temporarily convert potential foraging habitat prior to potential emergence of the rusty-patched bumble bee (RPBB) in the spring.

Northern is planning to commence the pipeline construction activities and compressor station uprate for the NL27 Project components as well as the Lake Mills and Albert Lea M500 E-lines associated with the V2F Project during spring 2027, or upon FERC authorization, and be in service no later than November 1, 2027. Northern is planning to commence the pipeline construction activities spring 2028 for the Faribault M500 D-line associated with the V2F project and be in service no later than November 1, 2028. The pipeline abandonment will be completed by spring 2029 after the replacement pipeline extensions are placed in service.

In support of this Application and pursuant to the presently effective

Regulations under the Natural Gas Act (NGA) and Rules of Practice and Procedure of the Commission, Northern states and shows the following:

I.
GENERAL

The exact legal name of Applicant is Northern Natural Gas Company. Northern is a corporation organized under the laws of the State of Delaware, having its principal office at 1111 South 103rd Street, Omaha, NE 68124-1000.

Northern is a "natural gas company" within the meaning of the NGA and, pursuant to Certificates of Public Convenience and Necessity issued by the Commission, is engaged in the transportation of natural gas in interstate commerce. Northern is authorized to do, and is doing, business in the states of Delaware, Texas, New Mexico, Oklahoma, Kansas, Nebraska, Iowa, Minnesota, Illinois, Michigan, Wisconsin, and South Dakota.

II.
CORRESPONDENCE AND COMMUNICATIONS

All correspondence and communications with respect to this application are to be sent to the following:

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*Designated to receive service pursuant to section 385.2010(c) of the Commission's Regulations.

III. BACKGROUND AND BASIS

V2F Project

The V2F Project, is an operational project, which allows Northern to abandon in-place approximately 105.76 miles of its 16- and 18-inch-diameter M500 A-line¹ and approximately 25.35 miles of its 16-inch-diameter M500 J-line and replace the lost capacity of 57 million cubic feet per day with the installation of an approximately (1) 8.29-mile-long extension of its existing 36-inch-diameter Lake Mills M500 E-line; (2) 2.09-mile-long extension of its existing Albert Lea M500 E-line; (3) 7.50-mile-long extension of its existing 30-inch-diameter Faribault M500 D-line; and (4) associated aboveground appurtenance and aboveground facilities. The proposed extensions, appurtenances, and aboveground facilities are located within Freeborn, Steele and Dakota counties, Minnesota. The installation of the proposed extensions will ensure continuity of natural gas transportation service for Northern's customers following the abandonment of the A-line and J-line. The Project as proposed will result in no loss of service to Northern's customers and will have no impact on Northern's ability to serve markets on its system. No incremental capacity will be created by the proposed project.

¹ The last 40 miles of the A-line to be abandoned in place is 18-inch-diameter.

The A-line and J-line were originally authorized April 6, 1943, by the Federal Power Commission (FPC), the predecessor to FERC, in Northern's "grandfather" application in Docket No. G-280.² As natural gas demand grew in the late 1940s and 1950s, Northern began looping pipelines and adding compression to its system.

The A-line and J-line segments to be abandoned were constructed with mechanical joints and acetylene welds. Pipeline integrity inspections using in-line inspection tools and hydrostatic testing are not feasible on pipelines constructed with mechanical joints and acetylene welds due to pipe joint misalignment, which causes internal protrusions that prevent the passage of in-line inspection tools and increases the risk of hydrostatic pressure test failure. As a proactive measure to protect pipeline integrity, Northern reduced the operating pressure of all its mechanically jointed or acetylene welded pipeline segments with a pipe diameter equal to or greater than 14 inches or operating at more than 30 percent of specified minimum yield strength; this includes the pipeline segments proposed to be abandoned and replaced. Other A-line pipeline segments on Northern's system have been approved by the Commission for abandonment and/or capacity replacement pursuant to Section 7 of the NGA [see *Northern Natural Gas Co.*, 168 FERC ¶ 61,148 (2019); *Northern Natural Gas Co.*, 170 FERC ¶ 61,146 (2020); *Northern Natural Gas Co.*, 170 FERC ¶ 62,131 (2020); *Northern Natural Gas Co.* 173 FERC ¶ 62,084 (2020); *Northern Natural Gas Co.*, 174 FERC 62,042 (2020); *Northern Natural Gas Co.*, 174 FERC 61,189 (2021);

² *Northern Natural Gas Co.*, 3 FPC 967 (1943).

Northern Natural Gas Co., 174 FERC 62,042 (2021); *Northern Natural Gas Co.*, 175 FERC 61,238 (2021); and *Northern Natural Gas Co.*, 181 FERC 62,137 (2022)]. Northern also has replaced other A-line segments through prior notice filings in Docket Nos. CP17-116-000, CP17-434-000, and CP19-35-000 pursuant to Part 157, Subpart F, blanket certificate regulations.

Following completion of abandonment activities, the abandoned A-line and associated appurtenances will be purchased by a third-party salvage company.

NL27 Project

The NL27 Project is a market-driven project designed in response to shipper requests for additional service received during the Northern Lights 2027 - Ventura North Open Season, which was held April 10, 2025, through May 15, 2025, (NL27 Open Season). The purpose of the NL27 Open Season was to determine if customers are in need of expanded firm transportation service and to identify the need, if any, to construct facilities necessary to provide for this additional need commencing on or after November 1, 2027, from certain points of interest (POIs)³ to delivery points located north of the Ventura, Iowa, compressor station in Northern's Market Area⁴. In the open season, Northern also provided firm customers currently holding capacity in Northern's Market Area an opportunity to

³ The receipt POIs listed in the NL27 Open Season included Northern Border Pipeline (NBPL)/Northern Natural Gas (NNG) Ventura (POI 192), NBPL/NNG Marshall (POI 204), NBPL/NNG Welcome (POI 1665), Great Lakes (GRLKS)/NNG Carlton (POI 388), Great Lakes/NNG Grand Rapids (POI 78994), Great Lakes/NNG Wakefield (POI 21972), Viking/NNG Polk (POI 62983) Viking Chisago/Isanti (POI 196), and Viking/NNG Pierz (POI 61667).

⁴ Northern's system is divided into two areas: the Field Area and the Market Area. Northern's Market Area is the geographical area located north of the inlet to Northern's Clifton compressor station in Clay County, Kansas. The Market Area includes pipeline configured in a grid system, with gas flowing into the Market Area facilities from geographically distinct supply basins via a number of third-party interstate pipelines

turn back capacity that may be used to reduce construction.

Northern received requests in the NL27 Open Season from CenterPoint Energy Resources Corporation, D/B/A CenterPoint Energy Minnesota Gas (CPE); Minnesota Energy Resources Corporation; and Hibbing Public Utilities for 79,303 dekatherms per day (Dth/day) for incremental annual firm service commencing November 1, 2027. Northern has executed agreements with these customers, including a throughput service agreement, an election form under a long-term contract and precedent agreements, all of which are included in Exhibit I as privileged and confidential information. No turn back capacity requests were received in the open season. Northern received and accepted a realignment request of 34,120 Dth/day from CPE for entitlement acquired through capacity release. The proposed NL27 Project facilities will be constructed to meet customer requests from the NL27 Open Season.

When placed in service, the proposed facilities will provide for additional winter peak day firm transportation service of approximately 79,303 Dth/day to serve residential and commercial customer market growth in Northern's Market Area.

and Northern's own transmission facilities.

IV. DESCRIPTION OF FACILITIES

V2F Project

The abandonment and installation of facilities for the V2F Project are described below. To replace the capacity lost from the abandonment of the A-line and J-line, Northern is proposing to construct and operate three pipeline extensions. Each of the three extensions will require a temporary compression site to accommodate tie-ins. Temporary compression will be utilized at these sites to evacuate gas from existing pipelines prior to tie-in activities thereby minimizing methane venting to the atmosphere. Temporary compression is discussed below with each pipeline extension and in Resource Report 1, Section 1.5.6.7.

Pipeline Abandonment

Northern proposes to abandon in-place two segments of its mainline in Iowa and Minnesota. Pipeline facilities to be abandoned in-place include:

- A-line – 105.76 miles of 16- and 18-inch-diameter mainline starting at Northern's Ventura compressor station located in Section 1, Township 96 North, Range 23 West (Sec 1, T96N, R23W) in Hancock County, Iowa, extending north through Worth County, Iowa, and into Freeborn, Steele and Rice counties, Minnesota, and ending at Northern's Farmington compressor station located in Sec 36, T114N, R20W in Dakota County, Minnesota.
- J-line – 25.35 miles of 16-inch-diameter mainline starting in Worth County, Iowa, and extending north into Freeborn County, Minnesota. The J-line loops and ties in to the A-line from a point in Sec 20, T99N, R22W Worth County, Iowa, to a

point in Sec 13, T103N, R22W, Freeborn, Minnesota. Due to its connections on the A-line; once the A-line is disconnected from Northern's system, the J-line will be disconnected as well. The A-line and J-line are collectively referred to as the A-line from this point forward.

To abandon the pipeline in-place, Northern will disconnect and isolate the A-line from Northern's system at its Ventura and Farmington compressor stations. Ground disturbance will be required at these two locations to expose and to cut and cap the pipeline prior to abandonment. Prior to disconnecting the A-line, Northern will utilize temporary compression at one location in Sec 6, T104N, R21W, Freeborn County, Minnesota (La Crosse Branch Line MNB73201 launcher /ABA05 site), to evacuate gas from the A-line to an adjacent mainline on Northern's system. No ground disturbance will occur at the temporary compression site. After reducing pressure to approximately 10 to 15 pounds per square inch gauge, all remaining gas will be evacuated by means of venting. Additional discussion on emissions associated with gas evacuation is provided in Resource Report 9.

Northern will use extra temporary workspace (ETWS) at the disconnect sites to isolate the A-line from its existing facilities. Northern also will utilize small areas of ETWS outside the compressor station footprints for cutting and grouting the A-line under highways and for equipment staging at the Ventura compressor station. Segments of the A-line under 270th Street in Hancock County, Iowa, (outside the Ventura compressor station) and under State Highway 50 in Dakota County, Minnesota, (outside the Farmington compressor station) will be capped and filled with cement grout.

To gain access to the ETWS at the disconnect sites and the temporary compression site, Northern will use temporary access roads, existing public roads and existing entrances into Northern facilities. Existing roads are in a condition that can accommodate construction traffic without modification or improvement. Upon completion of the disconnect activities, any disturbed areas will be restored to preconstruction conditions. A detailed description of the abandonment activities is included in Resource Report 1.

Lake Mills M500 E-line Installation

Northern is proposing to construct and operate an approximately 8.29-mile extension of its E-line in Freeborn County, Minnesota. The proposed extension will be tied in below ground at the current terminus of the E-line on the north side of 165th Street in Sec 33, T102N, R22W, Freeborn County, Minnesota. The terminus of the proposed extension will end at a point on the north side of 240th Street in Sec 23, T103N, R22W, Freeborn County, Minnesota, where the NL27 segment of the proposed Lake Mills M500 E-line extension will start (described below in the NL27 Project section).

At the take-off, Northern will remove a hot tap fitting on its existing 30-inch-diameter D-line and tie over from the M500 E-line to the M500 D-line and remove the existing connection. The existing 90-foot by 75-foot aboveground valve setting at this location including piping, valves, guard rail, 15-foot by 20-foot permanent access roads, and gravel will be removed. The land will be returned to original grade and Northern will release the facility and access easement but will maintain its pipeline easement.

Northern will install a new block valve and associated valves and piping within its Conger #1, located on the south side of 180th Street in Sec 27, T102N, R22W, Freeborn County, Minnesota. No other modifications to the facility, footprint, or easement will be required as a result of the new block valve.⁵

Northern will utilize temporary compression to evacuate gas from the D- and E-lines to adjacent mainlines prior to the tie-ins. The location for the temporary compression is Northern's Lake Mills compressor station located south of 465th Street in Sec 32 and 33, T100N, R22W, Worth County, Iowa.

The Lake Mills M500 E-line will generally be installed parallel, utilizing a 25-foot offset, to existing Northern pipelines. The pipeline will be installed within a 100-foot-wide nominal construction corridor⁶ in uplands; the construction corridor will be reduced to a 75-foot or less width in wetland areas to reduce impacts. In addition to the construction corridor, Northern will utilize ETWS, existing driveways and farm roads, temporary access roads, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

⁵ Northern plans to expand the Conger #1 as an automatic blanket project during the summer of 2026 as part of a separate project with a different utility. The expanded facility footprint will measure 100 feet by 375 feet along with a permanent access road measuring 15 feet by 30 feet. The V2F Project will utilize the expanded facility and station access road with no further modifications.

⁶ For all the pipeline extensions in the V2F and NL27 Projects, the construction corridor also is referred to as temporary workspace (TWS) as depicted on the alignment sheets and other drawings.

Albert Lea M500 E-line Installation

Northern proposes to construct and operate an approximately 2.09-mile extension of its E-line in Steele County, Minnesota. The proposed extension will be tied in below ground at the current terminus of the E-line on the north side of 340th Street in Sec 31, T105N, R21W, Steele County, Minnesota. Northern also will remove a hot tap fitting on its existing 30-inch-diameter D-line and tie over from the M500 E-line to the M500 D-line at the take off and remove the existing connection. The terminus of the proposed extension will end on the north side of Highway 30, in Sec 19, T105N, R21W, Steele County, Minnesota, where the NL27 segment of the Albert Lea M500 E-line extension will start (described below in the NL27 Project section).

Northern will utilize temporary compression to evacuate gas from the D- and E-lines to adjacent mainlines prior to the tie-ins. The location for the temporary compression is the Owatonna compressor station located south of County Highway 7 in Sec 29, T106N, R21W, Steele County, Minnesota.

The Albert Lea M500 E-line will generally be installed parallel, utilizing a 25-foot offset, to existing Northern pipelines. The pipeline will be installed within a 100-foot-wide nominal construction corridor; the construction corridor will be reduced to a 75-foot or less width in wetland areas to reduce impacts. In addition to the construction corridor, Northern will utilize ETWS, existing driveways and farm roads, temporary access roads, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

Faribault M500 D-line Installation

Northern proposes to construct and operate a 7.50-mile extension of its 30-inch-diameter D-line. The proposed extension will be tied in below ground at the current terminus of the D-line on the south side of 307th Street W, in Sec 16, T112N, R20W, Dakota County, Minnesota. The downstream tie-in to the existing D-line at the terminus will be completed below ground on the west side of Essex Avenue, in Sec 14, T113N, R20W, Dakota County, Minnesota.

At the take-off, Northern will remove the existing 19-foot by 18-foot aboveground valve setting including piping, valves, guard rail, 25-foot by 20-foot permanent access roads, and gravel. The land will be returned to original grade and Northern will release the facility and access easement but will maintain its pipeline easement.

Northern will install a new block valve and associated valves and piping within its E-Line to D-Line regulator station located on the north side of 245th Street West, in Sec 14, T113N, R20W, Dakota County, Minnesota.⁷ No modifications to the existing facility footprint or easements will be required.

At the terminus, Northern plans to remove two aboveground tie-over valve settings located on the west side of Essex Avenue in Sec 14, T113N, R20W, Dakota County, Minnesota. The existing gravel lots each measure 10 feet by 10 feet. The piping, valve, guardrail, and gravel at each location will be removed. The

⁷ Northern plans to expand the E-line to D-line regulator station in the summer of 2026 as part of a separate blanket project with a different utility. The expanded fence line and permanent access road will measure 162 feet by 98 feet. The V2F Project will utilize the expanded footprint and permanent access road with no further modifications.

land will be returned to original grade and Northern will release the facility and access easements but will maintain its pipeline easement.

The Faribault M500 D-line will be installed parallel, utilizing a 25-foot offset, to existing Northern pipelines with the exception of milepost (MP) 104.53 to the end (MP 104.87) where the existing 24-inch-diameter D-line will be removed and replaced with 30-inch-diameter pipeline in the same trench. The pipeline replacement will be conducted within a 100-foot-wide nominal construction corridor; the construction corridor will be reduced to a 75-foot or less width in wetland areas to reduce impacts. In addition to the construction corridor, Northern will utilize ETWS, existing driveways and farm roads, temporary access roads, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

Northern will utilize temporary compression to evacuate gas from the D- and C-lines to adjacent mainlines prior to the tie-ins. The location for the temporary compression is the Northfield #1, located north of 330th Street West, in Sec 28, T112N, R20W, Dakota County, Minnesota. Northern will utilize a line stop in addition to the temporary compression; the line stop is located in Sec 13, T113N, R20W, Dakota County, Minnesota. Northern will remove a hot tap fitting from its existing 30-inch-diameter M500 C-line and tie over from the M500 C-line at the take off and remove the existing connection.

NL27 PROJECT

Northern is proposing to construct and operate ten pipeline extensions as well as an update to an existing compressor station for the NL27 Project, which are more fully described below. To mitigate greenhouse emissions, Northern plans to use hot taps to complete tie-ins at the terminus of eight of the pipeline components.

Lake Mills M500 E-line

Northern proposes to construct and operate an approximately 2.32-mile extension of its 36-inch-diameter Lake Mills M500 E-line in Freeborn County, Minnesota. The proposed extension will take off with a below ground tie-in from the terminus of the V2F Lake Mills M500 E-line extension (described above in the V2F section) on the north side of 240th Street in Sec 23, T103N, R22W, Freeborn County, Minnesota. The terminus of the extension will tie-in to Northern's 30-inch-diameter M500 D-line within a new valve setting on the south side of a private driveway in Sec 13, T103N, R22W, Freeborn County, Minnesota.

Northern plans to construct an aboveground valve setting at the terminus of the proposed extension. The new valve setting will include piping and valves from the proposed extension to tie in to the existing D-line. The valve setting site will measure 45 feet by 55 feet. Northern will utilize an existing gravel-covered private driveway off 725th Avenue for permanent access to the proposed valve setting. For operational purposes, Northern will utilize the private driveway without improvements. Northern also will install a 36-foot-wide permanent graveled access road and utilize a 60-foot by 60-foot gravel lot adjacent to the proposed valve setting for pull-through parking. A guard rail will be installed around the

aboveground valve setting. Northern is in the process of obtaining a new access road agreement as well as a facility easement for the new valve setting.

As described in the V2F section above, Northern will utilize temporary compression at the Lake Mills compressor station in Worth County, Iowa, to minimize methane venting to the atmosphere during tie-in activities for the Lake Mills M500 E-line extensions.

The proposed extension will generally be installed parallel, utilizing a 25-foot offset, to Northern's existing pipelines. The pipeline will be installed within a 100-foot-wide nominal construction corridor in uplands; the construction corridor will be reduced to a 75-foot-width in wetland areas. In addition to the construction corridor, Northern will utilize ETWS, existing driveways and farm roads, temporary access roads, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

Albert Lea M500 E-line

Northern proposes to construct and operate an approximate 3.42-mile extension of its 36-inch-diameter Albert Lea M500 E-line in Steele County, Minnesota. The proposed extension will take off with a below-ground tie-in from the terminus of the V2F Albert Lea M500 E-line extension (described in the V2F section above) in Sec 19, T105N, R21W, Steele County, Minnesota. The terminus of the extension will tie-in to Northern's D-line within a new valve setting on the north side of 118th Street SW in Sec 5, T105N, R21W, Steele County, Minnesota.

Northern plans to construct an aboveground valve setting at the terminus of the proposed extension. The new valve setting will measure 45 feet by 55 feet and

include piping and valves to tie the proposed extension into the existing D-line. Northern also will install a 36-foot-wide permanent access road and utilize a 60-foot by 60-foot gravel lot adjacent to the proposed valve setting for pull-through parking. A guard rail will be installed around the aboveground valve setting. Northern is in the process of obtaining a facility easement for the new valve setting.

As described in the V2F section above, Northern will utilize temporary compression at the Owatonna compressor station located in Steele County, Minnesota, to accommodate tie-in activities for the Albert Lea M500 E-line extensions.

The proposed extension will generally be installed parallel, utilizing a 25-foot-offset, to existing Northern mainlines. The pipeline will be installed within a 100-foot-wide nominal construction corridor in uplands and one wetland roadside ditch; the construction corridor will be reduced to a 70-foot-width to avoid impacts on a second wetland (ALO-W14). In addition to the construction corridor, Northern will utilize ETWS, existing driveways and farm roads, temporary access roads, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

Willmar 3rd branch line upstream

Northern proposes to construct and operate an approximate 1.78-mile extension of its 24-inch-diameter Willmar 3rd branch line upstream in Scott County, Minnesota. The proposed extension will take off with a below-ground tie-in to the terminus of the Willmar 3rd branch line on the east side of Vernon Avenue in Sec 21, T114N, R21W, Scott County, Minnesota. The terminus of the proposed

extension will be completed within the existing Credit River MN #1 in Sec 20, T114N, R21W, Scott County, Minnesota.

Northern plans to remove and relocate its Willmar 24-inch branch line MNB75603-receiver facility located on the north side of County Road 70 in Sec 26, T114N, R21W, Dakota County and Sec 27, T114N, R21W, Scott County, Minnesota, to its Credit River MN #1 at the terminus of the extension as discussed below. The existing lot measures 145 feet by 67 feet by 93 feet by 80 feet by 135 feet. The receiver, aboveground valves, piping, retaining wall, fence, gravel and permanent driveway will be removed, and the land will be returned to original grade. Northern will release its facility easement but maintain its pipeline easements. Northern will install a below-ground line stop on the existing Willmar 3rd branch line at this location.

At the take-off of the proposed extension, Northern plans to remove an existing tie-in valve setting measuring 40 feet by 40 feet. Northern will install a below-ground line stop on the existing Willmar 3rd branch line at this location. The valve setting, tie-over piping, guardrail, existing gravel and permanent access road will be removed, and the land will be returned to original grade. Northern will release its facility easement but maintain its pipeline easements.

The relocated receiver and associated valves and piping will tie in to the existing station piping within Northern's Credit River MN #1 at the terminus of the proposed extension. Northern will utilize an existing driveway off 196th Street E and graveled lot, which measures 200 feet by 200 feet. No modifications to the facility footprint or easement will be needed.

To minimize methane venting to the atmosphere during tie-in activities, Northern will install a below-ground line stop on the existing Willmar 3rd branch line east of Vernon Avenue (upstream of the proposed take-off) and a hot tap will be utilized at the terminus.

Northern designed its extension to minimize construction impacts on residences and residential structures; therefore, portions of the extension are offset from Northern's existing pipelines by more than 25 feet. The maximum offset between the proposed extension and existing branch lines is approximately 300 feet. The extension will be installed within a 100-foot-wide nominal construction corridor in uplands and either 75 or 100 feet in wetlands. In addition to the construction corridor, Northern will utilize ETWS, temporary access roads, existing driveways, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

Willmar 3rd branch line downstream

Northern proposes to construct and operate an approximate 4.78-mile extension of its 24-inch-diameter Willmar 3rd branch line downstream in Carver County, Minnesota. The proposed extension will take off via a below-ground tie-in on the east side of County Road 153 in Sec 10, T115N, R25W, Carver County, Minnesota. The terminus of the extension will be completed within a new Willmar 3rd branch line downstream tie-in valve setting located on the north side of 110th Street in Sec 36, T116N, R26W, Carver County, Minnesota.

Northern plans to remove a receiver from its MNB75603 Willmar D-line 24-inch extension receiver facility at the takeoff of the proposed extension. Northern

will install one below-ground line stop on the existing Willmar 3rd branch line at this location. The receiver and associated valves and piping will be removed and Northern will utilize the existing facility and driveway for construction activities; no further modifications to the facility, footprint, or fence will be required. The receiver will be relocated to the terminus of this pipeline extension.

Northern plans to install two facilities at the terminus of the proposed extension. The Willmar 3rd branch line downstream receiver will measure 100 feet by 65 feet and will include the relocated receiver and associated valves and piping; a six-foot-high fence topped with barb wire will be installed around the receiver facility. A 25-foot-wide permanent access road will access the facility from 110th Street. Northern is in the process of obtaining a new facility easement for the proposed receiver.

Due to the location of the proposed tie-in, a 25-foot by 25-foot tie-in valve setting will be installed approximately 880 feet east of the new receiver facility described above. A 25-foot-wide by 315-foot-long permanent access road will be installed to access the site from 110th Street along with a 60-foot by 60-foot gravel lot adjacent to the facility to be used for pull-through parking. The facility will be surrounded by a guardrail. Northern is in the process of obtaining a new facility easement for the tie-in valve setting.

To minimize methane venting to the atmosphere during tie-in activities, Northern will install a below-ground line stop on the existing Willmar 3rd branch line east of County Road 153 (upstream of the proposed take-off) and a hot tap will be utilized at the terminus.

The majority of the proposed extension will be offset by 25 feet from Northern's existing pipelines. However, for approximately 1.3 miles, Northern designed its extension to minimize tree clearing and wetland impacts; therefore, portions of the extension are offset from Northern's existing pipelines by more than 25 feet. The maximum offset between the proposed and existing branch lines is approximately 1,500 feet. The proposed extension will be installed within a 100-foot-wide nominal construction corridor in uplands and 75 feet in wetlands. In addition to the construction corridor, Northern will utilize ETWS, temporary access roads, existing driveways, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

Welcome 2nd line

Northern proposes to construct and operate an approximate 1.24-mile extension of its 16-inch-diameter Welcome 2nd line in Martin County, Minnesota. The proposed extension will take off via a below-ground tie-in within the Welcome south receiver and MAOP regulator on the south side of 60th Street in Sec 12, T101N, R33W, Martin County, Minnesota. The terminus of the extension will be completed within a new tie-in valve setting located on the west side of 60th Avenue in Sec 11, T101N, R33W, Martin County, Minnesota.

At the take-off, the proposed extension will tie in below ground to the existing Welcome 2nd line within Northern's 210-foot by 155-foot Welcome south receiver and MAOP regulator facility; a below-ground hot tap also will be installed within the facility. Northern will utilize the existing facility and driveways during construction. No modifications to the facility footprint or easement will be needed.

Northern plans to construct and operate a 20-foot by 20-foot aboveground valve setting at the terminus of the proposed extension. The new valve setting will include piping and valves from the proposed extension to tie in to the existing B-line. Northern also will install a 30-foot-wide permanent access road and utilize a 60-foot by 60-foot gravel lot adjacent to the proposed valve setting for pull-through parking. A guard rail will be installed around the aboveground valve setting. Northern is in the process of obtaining a new facility easement for the proposed valve setting.

To minimize methane venting to the atmosphere during tie-in activities, Northern will complete a hot tap within the Welcome south receiver and MAOP regulator facility at the take-off; a hot tap will be utilized at the terminus.

The proposed extension will generally be installed parallel to the existing Northern MNM80501 B-line utilizing a 25-foot offset. The pipeline will be installed within a 90-foot-wide nominal construction corridor. In addition to the construction corridor, Northern will utilize ETWS, a temporary access road, existing driveways, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

Paynesville 2nd branch line

Northern proposes to construct and operate an approximate 2.45-mile extension of its 4-inch-diameter MNB59202 Paynesville 2nd branch line in Stearns County, Minnesota. The proposed extension will take off from the Paynesville 2nd branch line via a below-ground tie-in within Northern's Dooley's #2 on the east side of County Road 123 in Sec 29, T123N, R31W, Stearns County, Minnesota. The

terminus of the extension will be completed within a proposed valve setting located on the west side of County Highway 12 in Sec 22, T123N, R31W, Stearns County, Minnesota.

At the take-off, there will be no aboveground facility modifications; Northern will complete a below-ground tie-in and line stop at the existing takeoff valve setting within its 100-foot by 100-foot Dooley's #2. No modifications to the facility easement will be needed.

Northern plans to construct and operate an aboveground valve setting at the terminus of the proposed extension. The 15-foot by 15-foot valve setting will include piping and valves from the proposed extension to tie in to the existing MNB59201 Paynesville branch line. Northern also will install a 30-foot-wide permanent access road and utilize a 30-foot by 60-foot gravel lot adjacent to the site for pull through parking. A guardrail will be installed around the valve setting. Northern is in the process of obtaining a facility easement for the new valve setting.

To minimize methane venting to the atmosphere during tie-in activities, Northern will complete a hot tap into its existing MNB59202 Paynesville 2nd branch line at the tie-in located on the west side of County Road 12 and a line stop will be utilized at Dooley's #2.

The proposed extension will generally be installed parallel to the existing Northern MNB59201 Paynesville branch line utilizing a 25-foot-offset. The pipeline will be installed within a 75-foot-wide nominal construction corridor; the TWS was reduced to a 50-foot width near MP 0.14 to avoid a steep topographic break. The construction corridor also will be reduced to a 60-foot width to follow an existing

private driveway corridor and in wetland PAY-W03. In addition to the construction corridor, Northern will utilize ETWS, temporary access roads, existing driveways, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

Worthington 2nd branch line

Northern proposes to construct and operate an approximate 2.17-mile extension of its 8-inch-diameter Worthington 2nd branch line in Jackson County, Minnesota. The proposed extension will take off via a below-ground tie-in on the west side of State Highway 86 in Sec 29, T102N, R36W, Jackson County, Minnesota. The terminus of the extension will be completed within a new receiver facility located on the south side of 780th Street in Sec 25, T102N, R37W, Jackson County, Minnesota.

At the take-off, Northern plans to remove a receiver and associated valves and piping from its 80-foot by 75-foot Lakefield tie-over regulating station; the receiver and associated valves and piping will be relocated to the terminus of the proposed extension. A block valve, a tie-over valve with a hot tap to the existing facility piping, and an inlet valve riser will be installed within the facility. Approximately 40 feet of below-ground and aboveground piping will be removed. No modifications will be made to the facility footprint or permanent driveway. No modifications to the facility easement will be needed.

The new receiver facility will include piping and valves from the proposed extension to tie into the existing 6-inch-diameter MNB87001 Worthington branch line. The proposed facility footprint, including a buffer, will measure approximately

144 feet by 72 feet, and include a fenced and graveled area of 120 feet by 60 feet. Northern will plant native grasses and the seeds of butterfly-friendly foliage within an approximate 11-foot buffer between the edge of the gravel and the property line. Northern has an additional one-foot clearance around the fence for safety, totaling a 12-foot buffer around the facility. A new permanent drive measuring approximately 25 feet by 280 feet will be installed to access the site. Northern is in the process of obtaining a facility easement with the landowner.

To minimize methane venting to the atmosphere during tie-in activities, Northern will install a below-ground line stop on the existing Worthington 2nd branch line located on the east of State Highway 86 (upstream of the proposed take off) and a hot tap will be utilized at the terminus.

The proposed extension will generally be installed parallel to the existing Northern MNB87001 Worthington branch line utilizing a 25-foot offset. The pipeline will be installed within a 75-foot-wide nominal construction corridor. In addition to the construction corridor, Northern will utilize ETWS, temporary access roads, existing driveways, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

Springfield 2nd branch line

Northern proposes to construct and operate an approximate 7.40-mile extension of its 8-inch-diameter Springfield 2nd branch line in Watonwan County, Minnesota. The proposed extension will take off via a below-ground tie-in on the west side of 770th Avenue in Sec 34, T107N, R31W, Watonwan County, Minnesota. The terminus of the extension will be completed within a proposed tie-in

valve setting located on the west side of State Highway 4 in Sec 2, T107N, R32W, Watonwan County, Minnesota.

Northern plans to remove an existing 20-foot by 20-foot tie-in valve setting at the take-off. The valve setting, tie-over piping, guardrail, permanent access road, and gravel will be removed, and the land will be returned to original grade. Northern will release its facility easement but maintain its pipeline easements.

Northern plans to construct and operate a 75-foot by 75-foot RMV facility on the west side of Township Road 115, in Sec 12, T107N, R32W, in Watonwan County Minnesota. The RMV facility will include a block valve setting equipped with rupture mitigation actuators and equipment, and an 8-foot by 10-foot measurement building. Northern also will install a 30-foot-wide permanent access road to access the facility. Northern is in the process of obtaining a facility easement for the new RMV facility.

Northern plans to expand its existing Springfield 2nd branch line tie-in valve setting at the terminus of the extension. The existing facility will be expanded to include a tie-in valve and associated piping. The existing facility measures 4 feet by 10 feet which will be expanded to 15 feet by 20 feet. Northern also will install a 30-foot-wide permanent access road and utilize a 75-foot by 60-foot gravel lot adjacent to the new valve setting for pull-through parking. A guard rail will be installed around the aboveground valve setting. Northern is in the process of obtaining a facility easement for the new valve setting.

To minimize methane venting to the atmosphere during tie-in activities, Northern will install a below-ground line stop on the existing Springfield 2nd branch

line located on the east side of 770th Avenue (upstream of the proposed take off) and a hot tap will be utilized at the terminus.

The proposed extension will generally be installed parallel to the existing Northern MNB83701 Springfield branch line utilizing a 25-foot-offset. The pipeline will be installed within a 75-foot-wide nominal construction corridor. In addition to the construction corridor, Northern will utilize ETWS, temporary access roads, existing driveways, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

Minnesota Interconnect 2nd branch line

Northern proposes to construct and operate an approximate 1.59-mile extension of its 12-inch-diameter Minnesota Interconnect 2nd branch line in Isanti County, Minnesota. The proposed extension will take off via a below-ground tie-in approximately 0.5-mile from the east side of Verdin NW Street in Sec 22, T36N, R24W, Isanti County, Minnesota. The terminus of the extension will be completed within a proposed tie-in valve setting located on the east side of Kerry Street NW in Sec 28, T36N, R24W, Isanti County, Minnesota.

Northern plans to modify its existing 20-foot by 20-foot valve setting at the take-off of the proposed extension, located on the south side of a private drive in Sec 22, T36N, R24W, Isanti County, Minnesota. Northern will remove its tie-over piping and blind flange from the existing MNB77501 line and place a line stop on the existing Minnesota Interconnect 2nd branch line. Northern will not modify the facility footprint. No modifications to the facility easement will be needed.

Northern plans to construct and operate an aboveground 20-foot by 20-foot aboveground valve setting at the terminus of the proposed extension. The new valve setting will include piping and valves from the proposed extension to tie in to the existing MNB77501 Minnesota Interconnect branch line. Northern will install a 25-foot-wide graveled permanent access road off Kerry Street NW and utilize a 60-foot by 60-foot gravel lot adjacent to the proposed valve setting for pull-through parking. A guard rail will be installed around the aboveground valve setting. Northern is in the process of obtaining easements for the new facility.

To minimize methane venting to the atmosphere during tie-in activities, Northern will utilize a hot tap into the existing MNB77501 Minnesota Interconnect branch line at the tie-in location side and a below-ground line stop on the existing Minnesota Interconnect 2nd branch line located on the east side of Verdin NW Street (upstream of the proposed take off).

The Minnesota Interconnect 2nd branch line extension will generally be installed parallel to the existing Northern MNB77501 Minnesota Interconnect branch line utilizing a 25-foot offset. The pipeline will be installed within a 75-foot-wide nominal construction corridor. In addition to the construction corridor, Northern will utilize ETWS, temporary access roads, existing driveways, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

Alexandria 2nd branch line

Northern proposes to construct and operate an approximate 1.28-mile extension of its 8-inch-diameter Alexandria 2nd branch line in Morrison County,

Minnesota. The proposed extension will take off via a below-ground tie-in on the west side of 100th Avenue in Sec 28, T129N, R30W, Morrison County, Minnesota. The terminus of the extension will be completed within a new tie-in valve setting located on the north side of 140th Street in Sec 20, T129N, R30W, Morrison County, Minnesota.

Northern plans to remove an existing 15-foot by 15-foot tie-in valve setting site at the take-off for the proposed extension. Northern will install one below-ground line stop on the east side of 100th Avenue at this location. The valve setting, tie-over piping, guardrail and existing gravel will be removed and a line stop will be installed on the existing Alexandria 2nd branch line. The land will be returned to original grade. Northern will release its facility easement but maintain its pipeline easements.

Northern plans to construct and operate a 20-foot by 20-foot aboveground valve setting at the terminus of the proposed extension. The new valve setting will include piping and valves from the proposed extension to tie in to the existing MNB72901 branch line. Northern will install a 25-foot-wide graveled permanent access road and utilize a 71-foot by 60-foot gravel lot adjacent to the proposed valve setting for pull-through parking; Northern will improve a segment of an existing private driveway as part of the permanent access road. A guard rail will be installed around the aboveground valve setting. Northern is in the process of obtaining easements for the new facility.

To minimize methane venting to the atmosphere during tie-in activities, Northern will hot tap into the MNB72901 Alexandria branch line at the tie-in location

site and a below-ground line stop on the existing MNB72902 Alexandria 2nd branch line located on the east side of 100th Avenue (upstream of the proposed take off).

The Alexandria 2nd branch line extension will generally be installed parallel to the existing Northern MNB72901 Alexandria branch line utilizing a 25-foot-offset. The pipeline will be installed within a 75-foot-wide nominal construction corridor. In addition to the construction corridor, Northern will utilize ETWS, temporary access roads, existing driveways, and staging areas during construction. Northern is in the process of obtaining new permanent pipeline easements, where required.

Hugo compressor station uprate

Northern will complete a minor uprate and aboveground facility modifications within its existing Hugo compressor station. The site is located in Sec 6, T31N, R20W, Washington County, Minnesota. The Hugo compressor station modifications will consist of replacing the existing Solar Taurus 60-T7000S turbine (ISO-rated 7,000 horsepower) with a Solar Taurus 60-7800S that operates at an ISO-rated horsepower of 7,700. Northern will limit ground disturbance at this site to the installation of a fuel gas heater, a new motor control center building and replacement of the existing emergency generator. The existing auxiliary building will be expanded by 20 feet to accommodate the replaced generator; all other work will be completed inside the existing compressor building. Installation of the new turbine will result in a minor increase of 700 horsepower at the Hugo compressor station. The existing unit is certificated for a site-rated horsepower of 5,967⁸. The air

⁸ The current site-rated horsepower is at site elevation, an ambient temperature of 100 degrees F, duct losses, and off-optimal power turbine speed. ISO-rated horsepower is at 59 degrees F ambient temperature,

emissions and noise impacts anticipated from this increase are discussed in Resource Report 9.

The facility is currently fenced and covered with gravel. Northern will utilize the existing fenced facility for parking and existing permanent access road for during construction activities. No expansion of the facility boundary is required.

Miscellaneous – V2F and NL27

A detailed description of the proposed facilities, construction workspace and abandonment and construction activities are included in Resource Report 1, Exhibit F-1. The location and design of the facilities and workspaces are shown in more detail on U.S. Geological Survey 7.5-minute topographic maps and aerial photo-based alignment sheets and aerial photographs provided in Resource Report 1. Certain of the information provided on the maps and aerial alignment sheets contains sensitive environmental information and/or landowner names. Accordingly, Northern has marked these documents “**CUII//PRIV – DO NOT RELEASE**” (privileged information) and has segregated the documents in Volume II.

Maps depicting the general location of the V2F and LN27 Project facilities in relationship to Northern’s existing facilities is included at Exhibit F and is attached to this application. Flow diagrams reflecting Northern’s system before and after the proposed abandonment and facility installations are included in Exhibit G in Volume III and labeled “**CUII//CEII – DO NOT RELEASE**” (Critical Energy Infrastructure Information).

Northern will maintain a 50-foot-wide permanent right of way centered over the proposed pipelines. As previously described, the pipelines will be installed utilizing a 25-foot offset from existing pipelines, where practicable. Resource Report 8, Table 8.1-3 and Table 8.1-7, provides a listing of the pipeline segments that will be installed more than 25 feet from existing pipelines for the V2F and NL27 projects, respectively; the location by mile post, the deviation distance between the existing and proposed pipelines, and an explanation as to why the pipelines have deviated are provided for each project component in the tables.

Additional Ancillary Facilities

In addition to the facilities proposed in this application, 29 TBS facilities will be modified pursuant to Northern's blanket certificate and the automatic blanket provisions of the Commission's regulations as well as section 2.55(a) of the Commission's regulations for the NL27 Project. The total estimated cost of these modifications is \$24,028,491. A description of these facilities can be found in Resource Report 1, Tables 1.1-1 and 1.1-2. These projects are not contingent on the application. The projects have independent utility and would be required in time to meet customer demand. Northern has no plans for additional ancillary facilities that would otherwise be constructed/modified under Section 2.55(a) or the automatic blanket for the V2F Project.

V. IMPACT ON SERVICES – V2F

The V2F project as proposed is a capacity replacement project. The

authorization for abandonment and approval to construct and operate the proposed facilities will not impact any of Northern's firm obligations with existing shippers. No incremental capacity is created by the V2F Project.

VI. **ACCOUNTING INFORMATION / COST OF FACILITIES**

V2F

The proposed accounting entries to record the abandonment are provided in the attached Exhibit Y. The tax basis for the pipelines to be abandoned, as of January 31, 2026, is \$ 7,854,673.

The cost to construct the proposed V2F pipeline and associated appurtenant facilities is \$146,532,569 as detailed in the attached Exhibit K. Included with Exhibit K is a spreadsheet showing Northern's calculation of its allowance for funds used during construction.

NL27 Project

The cost to construct the proposed NL27 Project facilities is \$132,777,653 as detailed in the attached Exhibit K; a spreadsheet showing Northern's calculation of its allowance for funds used during construction is included.

Exhibit N provides separate analyses of the estimated cost of service and revenues for the proposed NL27 Project. Exhibit N shows the incremental revenues exceed the incremental cost of service for the first year (2027) by \$9,185,000; by \$9,767,000 in 2028; by \$10,311,000 in 2029 and \$10,823,000 in 2030. Additionally, stated on a per unit basis as illustrated in Exhibit P, the NL27 Project produces a rate reduction to the existing maximum rate customers. Northern is requesting a

presumption of rolled-in rate treatment for the expansion costs for NL27. The data set forth in Exhibits N and P demonstrates that cumulative incremental revenues exceed the incremental cost of service and that existing customers will not be subsidizing the proposed project.

VII.
Market Data – NL27 Project

Northern has binding commitments for firm throughput service with three shippers for service commencing November 1, 2027. These commitments total an aggregated incremental expansion entitlement of 79,303 Dth/day. In addition, Northern accepted a realignment request of 34,120 Dth/day from CPE for entitlement acquired through capacity release. The 79,303 Dth/day will serve Northern’s customers to meet growing energy demands for commercial and residential use. This capacity includes the delivery of natural gas to heat homes and businesses and supplying natural gas for appliance and machinery operation. Copies of election forms under long-term contracts and precedent agreements are included in Exhibit I. Prior to construction, Northern will have executed throughput agreements to replace the precedent agreements. The following table summarizes the individual shippers and their winter firm entitlement

Shipper	Winter Dth/day
CenterPoint Energy Resources Corp., D/B/A CenterPoint Energy Minnesota Gas	35,000
Minnesota Energy Resources Corporation	42,303
Hibbing Public Utilities	2,000
Total	79,303

Northern understands that the shippers participating in the proposed project will have either acquired gas supplies or have ongoing negotiations for the acquisition of the gas supplies related to the projects. The primary sources of supplies for the additional capacity will be from sources directly or indirectly connected to Northern's system. In the event upstream throughput services are required, Northern anticipates that each shipper will obtain such service and that it will be performed under Part 284 of the Commission's Regulations.

VIII. **Operational Benefits**

Construction of the NL27 Project facilities will provide benefits to Northern's existing system through increased reliability and system flexibility, as further described below.

The expansion facilities will be integrated with Northern's existing system and will complement the operation of Northern's existing facilities and provide increased reliability for Northern's existing infrastructure and operations, as well as flexibility for future expansions.

The NL27 expansion project requires additional pipeline in the Ventura to Farmington corridor to increase transport capacity. The Lakes Mills E-line and Albert Lea E-line extensions required for the expansion project are contiguous extensions of the V2F A-line capacity replacement pipeline. The cumulative Ventura to Farmington projects allow Northern to avoid greenfield pipeline or adding compression. The other proposed pipeline extensions associated with the

NL27 Project also are designed to minimize greenfield impacts. These pipelines are all extensions of existing loop lines. The extensions will increase operational flexibility and improve system resiliency.

Although the NL27 Project does not include new compression, Northern has attached a fuel study at Exhibit Z showing a nominal reduction in fuel consumption of 0.014%.

IX. ENVIRONMENTAL

V2F Project

There will be minimal environmental effects resulting from the proposed project as detailed in Exhibit F-I. Northern has included in Exhibit F-I an analysis of the environmental impact of Northern's plan to abandon the A-line in place and construct the proposed facilities.

The proposed pipeline extensions and aboveground facilities have been designed and will be constructed in a manner to minimize environmental impacts. Northern will be utilizing a construction corridor 100 feet in width and will be reducing the corridor width to a maximum 75 feet where it crosses wetland areas to minimize impacts. Northern will use a horizontal directional drill to cross all eight waterbody crossings on the V2F Project to mitigate impacts to the resource.

The proposed pipeline extensions will be installed within existing easements where practicable. Landowners along the project area were notified of the project prior to Northern conducting the necessary surveys; landowners along the A-line to be abandoned in-place will be notified of the proposed project

with the landowner notification packet mailed in accordance with section 157.6(d) of the commission's regulations; such notification will let the landowners know the salvage company will work with them regarding potential removal of the pipeline.

The majority of the land use impacted by the project consists of agricultural land. Disruption of the agricultural lands should only occur during the construction phase, after which the surface will be restored to allow the resumption of agricultural activity. There are no residences within 25 feet of the construction work area. Land use and construction and mitigation measures are more fully described in the environmental reports (Exhibit F-1).

The resource reports include additional environmental information pertinent to the proposed abandonment and construction activities including, among other information, USGS topo maps, aerial-based alignment sheets and aerial photographs depicting the abandonment, proposed facilities and construction areas.

Further, with the exception of modifications described in Resource Report 1, construction activities will be conducted in accordance with the May 2013 version of FERC's Plan and Procedures to minimize environmental impacts.

Northern will employ a chief environmental inspector (EI) for the proposed project. The EI will be responsible for monitoring and ensuring compliance with all mitigation measures required by the Project, clearances and permits. The EI will be empowered to order correction of acts that violate environmental requirements. The EI will be empowered to issue stop-work orders and will be

able to approve and implement any necessary impact mitigation measures.

NL27

The NL27 Project was engineered to maximize the use of looping and extensions of existing Northern pipelines, rather than a greenfield pipeline or additional compression, to site the Project facilities. Because Northern operates a reticulated system with multiple mainlines serving its Market Area, Northern has the flexibility to efficiently engineer a project design that minimizes impacts to landowners and the environment. Exhibit F-1 (environmental report) provides an analysis of the existing environmental conditions and the impact of the proposed facilities on the environment.

Northern will be utilizing construction corridors ranging in width between 75 and 100 feet in width and will be reducing the corridor width to a maximum 75 feet where it crosses wetland areas to minimize impacts. Northern will use a horizontal directional drill to cross the majority of wetland and waterbody crossings to mitigate impacts to the resource. Construction activities will be conducted in accordance with FERC's Plan and Procedures to minimize environmental impacts, with specific alternative measures to the FERC's Procedures as defined in Resource Report 1.

Northern will employ a chief environmental inspector (EI) for the proposed project. The EI will be responsible for monitoring and ensuring compliance with all mitigation measures required by the Project, clearances and permits. The EI will be empowered to order correction of acts that violate environmental requirements. The EI will be empowered to issue stop-work orders and will be able to approve and implement any necessary impact mitigation measures.

Northern proposes to install the proposed pipeline extensions within existing easements along the pipeline route and adjacent to existing right of way, as much as practical. Northern reviewed alternatives to the proposed pipelines and, as described in Resource Report 10, Northern's proposed routes represent the least or similar impact to the environment and/or landowners when compared to the alternatives analyzed.

The predominant land use impacted by the proposed Project is agricultural land. Disruption of the agricultural lands should occur only during the construction phase, after which the surface will be restored pursuant to its pre-construction condition, or pursuant to landowner agreements with the exception of the aboveground appurtenant facilities. One residence is located within 25 feet of construction workspaces and is discussed in Resource Report 8 along with the residential site specific plan in Figure 8-2. Additional land use and construction mitigation measures are more fully described in Resource Report 8.

V2F and NL27 Environmental

The status of required environmental clearances and permits from the appropriate state and federal agencies for both projects is detailed in Resource Report 1, Table 1.6-1. A listing of federal authorizations that are required for the projects and the status of these authorizations is provided in Exhibit J. Agency correspondence sent and received to date is included in appendices of respective resource reports included in Exhibit F-1. Copies of the archeological, architectural and cultural resources reports are included in Volume II and have been labeled "CUII//PRIV – DO NOT RELEASE."

Northern has included topographical maps, aerial photographs and aerial alignment sheets depicting the location of the disconnect sites, temporary compression sites and proposed facilities for both projects in Resource Report 1. Alignment sheets containing landowner names and the location of sensitive environmental sites are provided in Resource Report 1, Figures 1-7 (V2F) and 1-9 (NL27); due to the sensitive nature of the information, these figures are labeled “CUI//PRIV – DO NOT RELEASE” and segregated in Volume II.

A list of the affected landowners, including the landowners along the A-line to be abandoned in place, is provided in Resource Report 1, Appendix 1C, and is filed as privileged information in Volume II. A list of the agencies involved with the projects as well as other interested stakeholders is included in Resource Report 1, Appendix 1B. Pursuant to section 157.6(d) of the commission’s regulations, within three business days following the date the Commission issues a notice of the application, affected landowners and other stakeholders will be mailed a notice of the proposed project. A listing of the newspapers and libraries, which are located within the counties of the proposed projects is included in Appendix 1-B of Resource Report 1. Northern will make a good faith effort to publish a notice of the project twice in the applicable newspapers within 14 days from the date a docket number is assigned to the instant application. Pursuant to section 157.10(c), a copy of the public information included in the instant application will be available for public viewing at the applicable libraries.

Northern has established an Environmental Complaint Resolution Procedure that will be provided to landowners whose properties will be crossed

by the projects with clear and simple directions for identifying and resolving environmental mitigation problems or concerns; a copy of the Environmental Complaint Resolution Procedure along with template letters to be sent to landowners directly affected by the project is attached to Resource Report 1, Appendix D. The document includes information on how a landowner may contact Northern's toll-free number 24/7 or directly contact commission staff.

As part of their stakeholder outreach, Northern established a project website (<https://www.northernnaturalgas.com/expansionprojects/Pages/V2F-and-NL27.aspx>) which is available to the public. The website address will be noted on all outreach materials and other communications. The information on the website includes a description of the scope of the Project; Project maps; Project updates; Project contact information and regulatory developments and announcements. Northern also established a dedicated email address (V2F_NL27@nngco.com) (note underscore between V2F and NL27), which also will be included on landowner and stakeholder communications.

X.

PUBLIC CONVENIENCE AND NECESSITY

V2F Project

The proposed project is a capacity replacement project. The abandonment of these facilities as proposed and the construction and operation of the replacement pipeline, appurtenances, and aboveground facilities will not result in the abandonment of any firm service of Northern's existing shippers. The A-line has been operating at a reduced pressure for safety reasons; however, there is

no impact to current firm shippers on the subject facilities. Abandonment also will eliminate the safety risk from leaks, pipeline stress, and other issues that could result from the continued operation of the pipeline. Upgrading to a new pipeline will also reduce fugitive emissions.

The abandonment and installation of the proposed facilities will allow Northern to serve the needs of its shippers more effectively by eliminating inefficiencies associated with the operation and maintenance of the A-line. The project will also improve safety and enhance reliability with the installation of the proposed new facilities. Northern submits that the requested Project is clearly permitted by the present and future public convenience and necessity and should be promptly granted.

NL27 Project

The Certificate Policy Statement⁹ explained that the Commission, in deciding whether to authorize the construction of major new pipeline facilities, balances the public benefits against the potential adverse consequences. Under its policy, the Commission's threshold requirement for approval of new projects is that the applicant must be prepared to financially support the project without relying on subsidization from its existing customers. The next step is to determine whether the applicant has made efforts to eliminate or minimize any adverse effects the project might have on the applicant's existing customers, existing

⁹ Certification of New Interstate Natural Gas Facilities (Certificate Policy Statement) 88 FERC ¶ 61,227 (1999), *order clarifying statement of policy*, 90 FERC ¶ 61,128 (2000), *Order further clarifying statement of policy*, 92 FERC ¶ 61,094 (2000).

pipelines in the market and their captive customers, and landowners and communities affected by the route of the new pipelines. If residual adverse effects on these interest groups are identified after efforts have been made to minimize them, the Commission will evaluate the project by balancing the evidence of public benefits to be achieved against the residual adverse effects. This is essentially an economic test. Only when the benefits outweigh the adverse effects on economic interests will the Commission proceed to complete the environmental analysis, where other interests are considered.

As illustrated in Exhibit N, the incremental cost of service exceeds the incremental revenues for the first year (2027) by \$9,185,000; by \$9,767,000 in 2028; by \$10,311,000 in 2029 and \$10,823,000 in 2030. Exhibit P shows the NL27 Project produces a rate reduction to the existing maximum rate customers. Therefore, the Certificate Policy Statement's threshold requirement of no-subsidy is satisfied.

In addition, there will be no adverse impacts on existing customers and other pipelines or their captive customers. The proposed project will not degrade any existing service on Northern's system. Further, the project is not intended to replace existing transportation service on other pipelines.

Northern has taken steps to minimize impacts on landowners, communities, and the environment that might be affected by the project. The proposed facilities will be operated in an integrated manner with Northern's existing facilities, thereby providing additional pipeline reliability and flexibility for Northern's existing customers. In addition, Northern planned the project to utilize

existing rights of way to the extent possible. The use of existing land rights minimizes the number of new landowners affected by construction and the ongoing operation of the proposed facilities and minimizes the need to clear and maintain additional pipeline right of way, alleviating any adverse effects the proposed project might have on landowners and communities.

Further, with the exception of modifications described in Resource Report 1, construction activities will be conducted in accordance with the May 2013 version of FERC's Plan and Procedures. The predominant land use impacted by the proposed project is agricultural land; the majority of which will return to agricultural use following construction.

Finally, the Statement of Policy provides that a pipeline should indicate whether the need to construct additional facilities can be mitigated by measures such as capacity reallocation or released capacity. Northern received no requests in the open season to turn back capacity and accepted a realignment request of 34,120 Dth/day from CPE for entitlement acquired through capacity release. Northern has executed binding commitments supporting additional winter peak day firm transportation entitlement of 79,303 dekatherms per day as well as the realignment request.

Based upon the benefits the NL27 Project will provide and the minimal adverse effects on existing customers, other pipelines and their captive customers, landowners and surrounding communities, and the environment, Northern's proposal is clearly required and permitted by the public convenience and necessity.

XI.
AUTHORIZATION REQUESTED

V2F

Northern seeks permission and approval to (1) abandon in-place the A-line and J-line and appurtenances in various counties in Iowa and Minnesota. Northern also seeks permission and approval to install and operate (1) an 8.29-mile extension of its 36-inch-diameter Lake Mills M500 E-line located in Freeborn County, Minnesota; (2) a 2.09 extension of its 36-inch-diameter Albert Lea M500 E-line located in Steele County, Minnesota; (3) a 7.50-mile extension of its 30-inch-diameter Faribault M500 D-line located in Dakota County, Minnesota; and (4) associated aboveground appurtenant facilities located in Freeborn and Dakota counties, Minnesota.

NL27

Northern respectfully requests approval to install and operate: (1) a 2.32-mile extension of its 36-inch-diameter Lake Mills M500 E line in Freeborn County, Minnesota; (2) a 3.42-mile extension of its 36-inch-diameter Albert Lea M500 E-line in Steele County, Minnesota; (3) a 1.76-mile extension of its 24-inch-diameter Willmar 3rd branch line upstream in Scott County, Minnesota; (4) a 4.77-mile extension of its 24-inch-diameter Willmar 3rd branch line downstream in Carver County, Minnesota; (5) a 1.24-mile extension of its 16-inch-diameter Welcome 2nd line in Martin County, Minnesota; (6) a 2.44-mile extension of its 4-inch-diameter Paynesville 2nd branch line in Stearns County, Minnesota; (7) a 2.17-mile extension of its 8-inch-diameter Worthington 2nd branch line in

Jackson County, Minnesota; (8) a 7.39-mile extension of its 8-inch-diameter Springfield 2nd branch line in Watonwan County, Minnesota; (9) a 1.59-mile extension of its 12-inch-diameter Minnesota Interconnect 2nd branch line in Isanti County, Minnesota; (10) a 1.28-mile extension of its 8-inch-diameter Alexandria 2nd branch line in Morrison County, Minnesota; (11) associated aboveground appurtenant facilities in various counties in Minnesota; and (12) modifications, including an uprate, to its existing Hugo compressor station in Washington County, Minnesota. Northern also is requesting approval for a predetermination of rolled-in rate treatment of the NL27 expansion costs.

Northern requests the Commission to issue an order granting (1) approval for the abandonment and installation of the proposed facilities for the V2F and NL27 projects and (2) a presumption of rolled-in rate treatment of the expansion costs for the NL27 Project as expeditiously as possible, but no later than February 4, 2027, to enable Northern to timely receive a notice to proceed with construction and facilitate the clearing of trees and/or shrubs prior to April 1, 2027.

XII. **Certification**

Northern is willing and able to do the acts and perform the services for which application is made, and in so doing, to conform to the provisions of the NGA and the regulations promulgated thereunder.

Pursuant to the provisions of the Natural Gas Pipeline Safety Act of 1968, Northern certifies that the proposed facilities will be designed, constructed, abandoned, removed, inspected, tested, operated, and maintained in accordance

with the requirements of Title 49, Part 192, Code of Federal Regulations, or any superseding state or federal safety code applicable to gas transmission pipelines.

XIII.
DESCRIPTION OF EXHIBITS

This is an abbreviated application pursuant to Section 157 of the regulations of the commission. For convenience purposes, Northern has addressed each of the exhibits required under Section 157.14 of said regulations. These exhibits are attached, incorporated by reference, or omitted for the reasons indicated.

NOTICE

NOTICE OF APPLICATION

Submitted.

EXHIBIT A

ARTICLES OF INCORPORATION AND BYLAWS

Omitted. This information is filed at Docket No. CP91-1680-000 as Exhibit A and incorporated in this application for all purposes.

EXHIBIT B

STATE AUTHORIZATIONS

Omitted. This information is filed at Docket No. CP91-1680-000 as Exhibit B and incorporated in this application for all purposes.

EXHIBIT C

COMPANY OFFICIALS

Omitted. Information regarding Northern's company officials can be viewed on the following website:

<http://www.northernnaturalgas.com/aboutus/Pages/ManagementTeam.aspx>

EXHIBIT D

SUBSIDIARIES AND AFFILIATIONS

Omitted. Northern does not directly or indirectly own, control, or hold with power to vote 10 percent or more of the outstanding voting securities of any other person or organized group of persons engaged in the production, transportation, distribution, or sale of natural gas or of any person or organized group of persons engaged in the construction or financing of such enterprises or operations.

EXHIBIT E	OTHER PENDING APPLICATIONS AND FILINGS Omitted. Northern is not aware of any pending applications on file with the Commission which affect the instant application.
EXHIBIT F	LOCATION OF FACILITIES Submitted.
EXHIBIT F-I	ENVIRONMENTAL REPORT Submitted.
EXHIBIT G	FLOW DIAGRAMS SHOWING DAILY DESIGN CAPACITY Submitted as CEII in Volume III.
EXHIBIT G-I	FLOW DIAGRAMS SHOWING MAXIMUM CAPABILITIES Omitted. Exhibit G reflects maximum capacities.
EXHIBIT G-II	FLOW DIAGRAMS DATA Submitted as CEII in Volume III.
EXHIBIT H	GAS SUPPLY Omitted.
EXHIBIT I	MARKET DATA Submitted in Volume II and labeled “CUI//PRIV – DO NOT RELEASE” are election forms under long-term contracts and precedent and transportation agreements for shippers which participated in the open season.
EXHIBIT J	FEDERAL AUTHORIZATIONS Submitted.
EXHIBIT K	COST OF FACILITIES Submitted. Included with Exhibit K is a spreadsheet showing Northern’s calculation of its allowance for funds used during construction.
EXHIBIT L	FINANCING Omitted. The proposed construction will be financed with internally generated funds.

- EXHIBIT M** **CONSTRUCTION, OPERATION AND MANAGEMENT**
Omitted. Northern and/or independent contractors will accomplish the proposed construction. Employees of Northern will carry out operation and maintenance activities during the ordinary course of business.
- EXHIBIT N** **REVENUES, EXPENSES AND INCOME**
Submitted. Exhibit N includes the analysis of the proposed NL27 Project.

There are no revenues associated with the proposed V2F abandonment and capacity replacement project.
- EXHIBIT O** **DEPRECIATION AND DEPLETION**
Omitted. Northern will depreciate the facilities at the rate in effect, from time to time, as approved by the Commission.
- EXHIBIT P** **TARIFF**
Submitted for the NL27 Project.

There are no tariff changes related to the V2F Project.
- EXHIBIT T** **RELATED APPLICATIONS**
Omitted. A description of the subject facilities and the authority and docket number under which the facilities were installed is discussed in V2F Project Section III.
- EXHIBIT U** **CONTRACTS AND OTHER AGREEMENTS**
Omitted. There are no contracts or other agreements associated with the proposed project.
- EXHIBIT V** **FLOW DIAGRAM SHOWING DAILY DESIGN CAPACITY AND REFLECTING OPERATION OF APPLICANT'S SYSTEM AFTER ABANDONMENT**
Omitted. See exhibit G.
- EXHIBIT W** **IMPACT ON CUSTOMERS WHOSE SERVICE WILL BE TERMINATED**
Omitted. The proposed abandonment will not impact Northern's ability to provide service to its customers.

- EXHIBIT X** **EFFECT OF THE ABANDONMENT ON EXISTING TARIFFS**
Omitted. There is no impact to Northern’s existing tariff as a result of the proposed abandonment. Any impact to Northern’s cost of service on its existing rates may be determined in a subsequent Section 4 general rate case filed by Northern.
- EXHIBIT Y** **ACCOUNTING TREATMENT OF ABANDONMENT**
Submitted.
- EXHIBIT Z** **Fuel Study**
Submitted.

XIV.
CONCLUSION

W H E R E F O R E, Northern respectfully requests that the Commission issue pursuant to Section 7 of the NGA, an order providing authorization to (1) abandon in-place approximately 131 miles of Northern’s A-line and J-line and associated aboveground appurtenant facilities and (2) construct, modify and operate certain pipeline and compression facilities and associated aboveground appurtenant facilities for the V2F and NL27 Projects, all located within various counties in Iowa and Minnesota. Northern also is requesting a presumption of rolled-in rate treatment for NL27 and the Commission grant approval for the abandonment and installation of the proposed facilities as expeditiously as possible, but no later than February 4, 2027.

Northern further requests that the intermediate decision procedure be omitted and that this Application be disposed of pursuant to Rules 801 and 802 of the Commission’s Rules of Practice and Procedure (18 C.F.R. §§ 385.801 and 385.802) providing shortened procedures for non-contested proceedings. If the Commission grants such request, Northern waives oral hearing and opportunity for

filing exceptions to the decisions of the Commission.

Respectfully submitted,
NORTHERN NATURAL GAS COMPANY

/s/ Kirk Lavengood

Kirk Lavengood, VP
Chief Legal Officer

NOTICE OF APPLICATION

subscribed docket(s). For assistance with any FERC Online service, please email FERCOnlineSupport@ferc.gov, or call (866) 208-3676 (toll free). For TTY, call (202) 502-8659.

Any questions regarding this application should be directed to Donna Martens, Senior Regulatory Analyst for Northern, 1111 South 103rd Street, Omaha, NE 68124, at (402) 398-7138.

There are two ways to become involved in the Commission's review of the proposed project. First, any person wishing to obtain legal status by becoming a party to the proceeding for the project should, on or before the comment date stated below file with the Federal Energy Regulatory Commission, 888 First Street, NE, Washington, D.C. 20426, a motion to intervene in accordance with the requirements of the Commission's Rules of Practice and Procedure (18 CFR §§ 385.214 or 385.211) and the Regulations under the NGA (18 CFR § 157.10). A person obtaining party status will be placed on the service list maintained by the Secretary of the Commission and will receive copies of all documents filed by the applicant and by all other parties. Only parties to the proceeding can ask for court review of Commission orders in the proceeding.

However, a person does not have to intervene in order to have comments considered. The second way to participate is by filing with the Secretary of the Commission, as soon as possible, an original and two copies of comments in support of or in opposition to this project. The Commission will consider these comments in deeming the appropriate action to be taken, but the filing of a

comment alone will not serve to make the filer a party to the proceeding. The Commission's rules require that persons filing comments in opposition to the project provide copies of their protests only to the party or parties directly involved in the protest.

Persons who wish to comment only on the environmental review of this project should submit an original and two copies of their comments to the Secretary of the Commission. Environmental commenters will be placed on the Commission's environmental mailing list, will receive copies of the environmental documents, and will be notified of meetings associated with the Commission's environmental review process. Environmental commenters will not be required to serve copies of filed documents on all other parties. However, the non-party commenters will not receive copies of all documents filed by other parties or issued by the Commission (except for the mailing of environmental documents issued by the Commission) and will not have the right to seek court review of the Commission's final order.

The Commission strongly encourages electronic filings of comments, protests and interventions in lieu of paper using the "eFiling" link at <http://www.ferc.gov>. Persons unable to file electronically should submit an original and 5 copies of the protest or intervention to the Federal Energy regulatory Commission, 888 First Street, NE, Washington, D.C. 20426.

Comment Date: _____, 2026

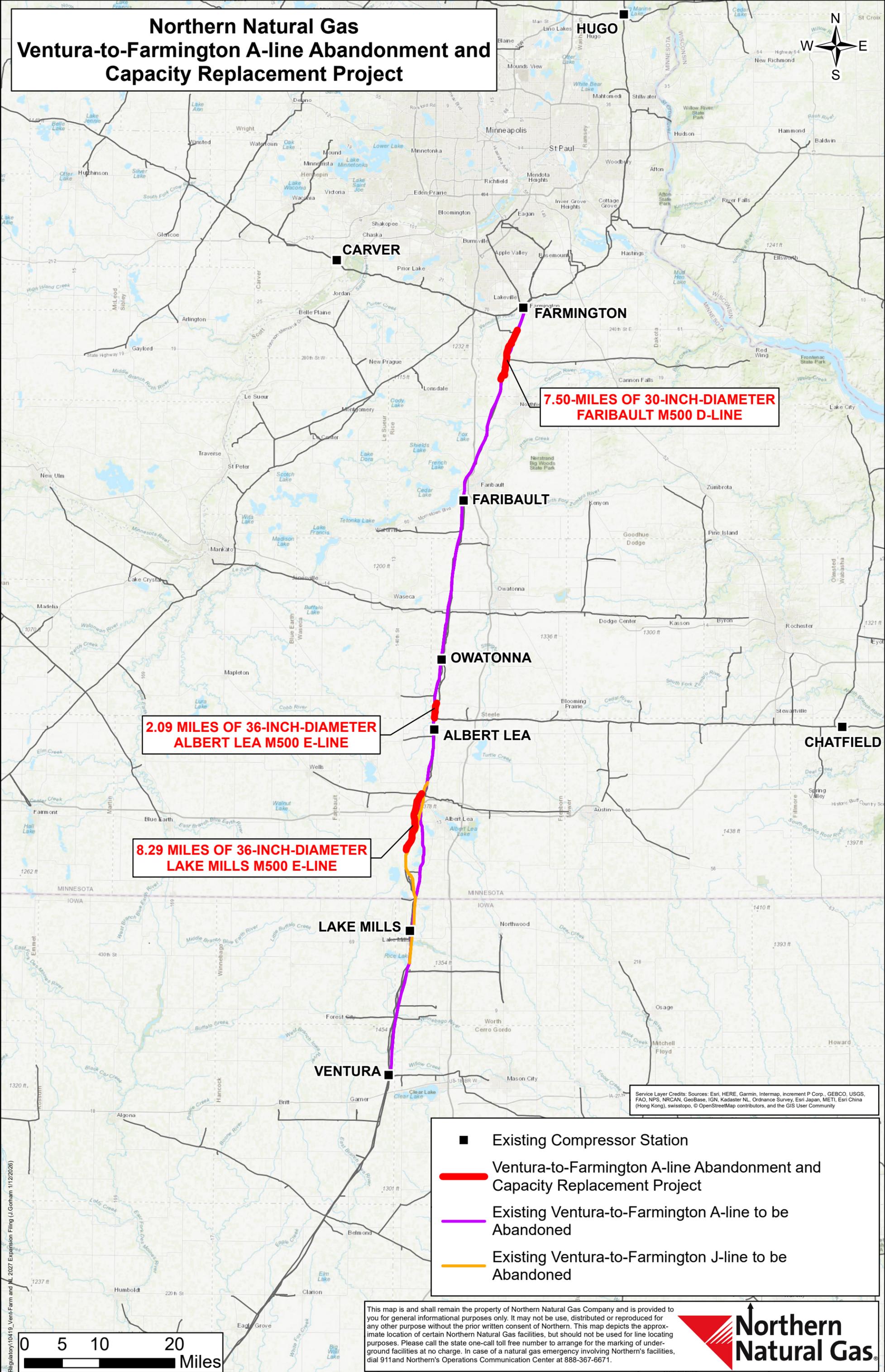
Debbie-Anne Reese,

Secretary

EXHIBIT F

LOCATION OF FACILITIES

Northern Natural Gas Ventura-to-Farmington A-line Abandonment and Capacity Replacement Project



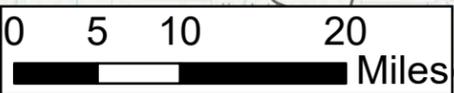
**7.50 MILES OF 30-INCH-DIAMETER
FARIBAULT M500 D-LINE**

**2.09 MILES OF 36-INCH-DIAMETER
ALBERT LEA M500 E-LINE**

**8.29 MILES OF 36-INCH-DIAMETER
LAKE MILLS M500 E-LINE**

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

- Existing Compressor Station
- Ventura-to-Farmington A-line Abandonment and Capacity Replacement Project
- Existing Ventura-to-Farmington A-line to be Abandoned
- Existing Ventura-to-Farmington J-line to be Abandoned

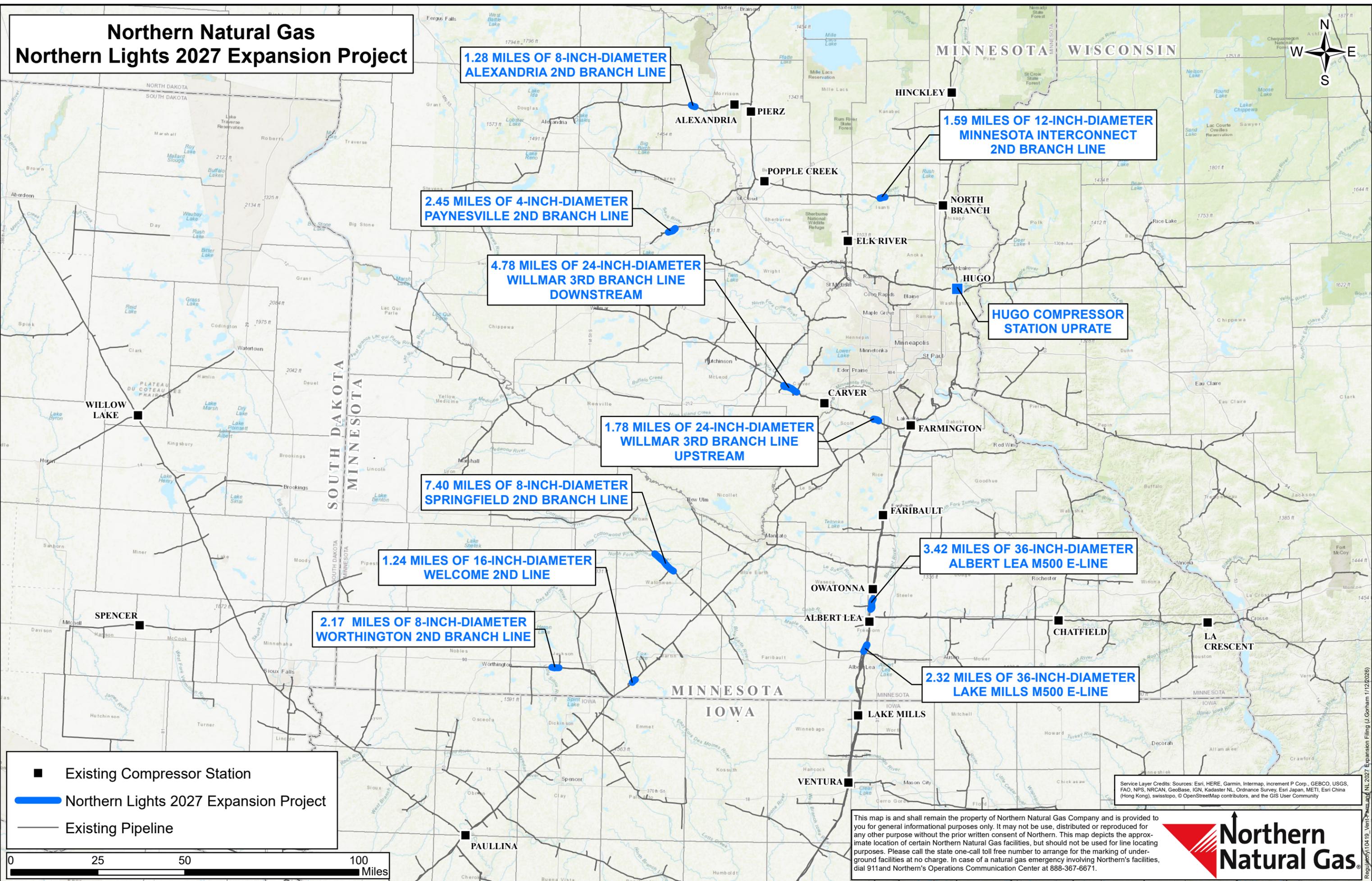


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Regulatory 10419_Vent-Farm and NL 2027 Expansion Filing (J.Gorham 1/12/2026)

Northern Natural Gas Northern Lights 2027 Expansion Project



**1.28 MILES OF 8-INCH-DIAMETER
ALEXANDRIA 2ND BRANCH LINE**

**1.59 MILES OF 12-INCH-DIAMETER
MINNESOTA INTERCONNECT
2ND BRANCH LINE**

**2.45 MILES OF 4-INCH-DIAMETER
PAYNESVILLE 2ND BRANCH LINE**

**4.78 MILES OF 24-INCH-DIAMETER
WILLMAR 3RD BRANCH LINE
DOWNSTREAM**

**HUGO COMPRESSOR
STATION UPRATE**

**1.78 MILES OF 24-INCH-DIAMETER
WILLMAR 3RD BRANCH LINE
UPSTREAM**

**7.40 MILES OF 8-INCH-DIAMETER
SPRINGFIELD 2ND BRANCH LINE**

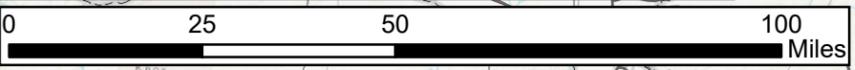
**1.24 MILES OF 16-INCH-DIAMETER
WELCOME 2ND LINE**

**3.42 MILES OF 36-INCH-DIAMETER
ALBERT LEA M500 E-LINE**

**2.17 MILES OF 8-INCH-DIAMETER
WORTHINGTON 2ND BRANCH LINE**

**2.32 MILES OF 36-INCH-DIAMETER
LAKE MILLS M500 E-LINE**

- Existing Compressor Station
- Northern Lights 2027 Expansion Project
- Existing Pipeline



Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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Regulatory 1/04/19_Vent-Reg-land NL 2027 Expansion Filing (J.Gorham 1/12/2026)

EXHIBIT F-1

- - -

ENVIRONMENTAL REPORT

See Volume I

EXHIBIT G

FLOW DIAGRAM SHOWING DAILY DESIGN CAPACITY

Contains CEII – Do Not Release

See Volume III

EXHIBIT G-II

- - -

FLOW DIAGRAMS DATA

Contains CEII – Do Not Release

See Volume III

EXHIBIT I

- - -

Market Data

Filed as Privileged Information

See Volume II

EXHIBIT J

- - -

FEDERAL AUTHORIZATIONS

**Exhibit J
Federal Authorizations
V2F and NL27 Project**

Responsible Agency	Delegated Authority	Permit or Clearance Required	Status of Permit/Clearance	Anticipated Permit Receipt Date
Federal (V2F and NL27)				
FERC (V2F and NL27)	N/A	Certificate for abandonment and capacity replacement of interstate natural gas transmission pipeline facilities (V2F and NL27)	Section 7 application will be filed February 2026 (V2F and NL27)	February 2027 (V2F and NL27)
EPA (V2F and NL27)	MPCA/IDNR	Clean Air Act permits and approvals (V2F and NL27)	Delegated to the state (MPCA/IDNR V2F) (MPCA NL27)	N/A (V2F and NL27)
	MPCA/IDNR	CWA Section 401 Water Quality Certification (V2F and NL27)	Delegated to the state (MPCA/IDNR V2F) (MPCA NL27)	N/A (V2F and NL27)
	MPCA/IDNR	CWA Section 402 permits for wastewater or stormwater discharges (V2F and NL27)	Delegated to the state (MPCA/IDNR V2F) (MPCA NL27)	N/A (V2F and NL27)
NRCS (V2F and NL27)	N/A	Conservation Easement Program and seeding recommendations (V2F and NL27)	NA (V2F and NL27)	Northern utilizing responses provided for previous Northern Lights Expansion Projects as they had similar footprints (V2F and NL27)
USACE – St. Paul District (V2F and NL27)	N/A	CWA Section 404 – Dredge and Fill Permit (V2F and NL27)	USACE notification submitted February 2026 (V2F) Submitted January 2026(NL27)	Wetland impacts will qualify under the Regional General Permit 3 – Non-Reporting; no permit or authorization required (V2F) USACE confirmed no permit required for 8 components under Utility RGP. Response for the Willmar 3rd branch line upstream and Alexandria 2nd branch line anticipated July 2026 (NL27)
USACE – Rock Island District (V2F)	N/A	CWA Section 404 – Dredge and Fill Permit (V2F)	USACE notification submitted February 2026 (V2F)	Wetland impacts will qualify under the Nationwide Permit 12 – Non-Reporting; no permit or authorization required (V2F)

Responsible Agency	Delegated Authority	Permit or Clearance Required	Status of Permit/Clearance	Anticipated Permit Receipt Date
USFWS – Twin Cities Field Office (V2F and NL27)	N/A	Section 7 Endangered Species Act, BGEPA and MBTA – consultation clearance request for Minnesota	Initial coordination submitted January/February 2025; D-keys and species survey protocols received (V2F) Initial coordination submitted November/December 2025; D-keys and species survey protocols received (NL27)	No effect determination on all federal species; consultation complete (V2F) Rusty-patched bumblebee surveys on Willmar 3rd branch line upstream will start May 2026, NLEB surveys for Paynesville 2nd branch line (NL27)
USFWS – Rock Island Field Office (V2F)	N/A	Section 7 Endangered Species Act, BGEPA and MBTA – consultation clearance request for Iowa (V2F)	Initial coordination submitted January/February 2025; D-keys and species survey protocols received (V2F)	No effect determination on all federal species; consultation complete (V2F)
Native American Tribes (V2F and NL27)	N/A	NHPA Section 106 consultation to determine impacts on Traditional Cultural Properties	Submission of cultural reports and UDPs completed February 2026 (V2F and NL27)	Responses anticipated March/April 2026 (V2F) Responses anticipated April/May 2026 (NL27)
State – Minnesota (V2F and NL27)				
MPCA (V2F and NL27)	From EPA	Clean Air Act, Prevention of Significant Deterioration Minor/Title V Major Air Construction Permit (V2F and NL27)	No compressor/compressor station(s) (V2F) Title V Major Air Construction Permit – anticipated to be submittal March 2026 (NL27)	N/A (V2F) Response anticipated September 2026 (NL27)
	From EPA	Section 401 Water Quality Certification (V2F and NL27)	Authorization concurrent with USACE Section 404 Approval (V2F and NL27)	No USACE Preconstruction Notification; therefore, Northern will adhere to the Section 401 provisions of the Utility Regional General Permit (V2F and NL27)
	N/A	NPDES Stormwater Permit MNR100001 (V2F and NL27)	Permit application submittals anticipated February/March	Responses anticipated March 2027 (V2F and NL27)

Responsible Agency	Delegated Authority	Permit or Clearance Required	Status of Permit/Clearance	Anticipated Permit Receipt Date
			2027 (V2F and NL27)	
	N/A	NPDES Trench Water Discharge Permit (V2F and NL27)	Dewatering information included with stormwater permit application (V2F and NL27)	Authorization included with stormwater permit (V2F and NL27)
MDNR	N/A	MPARS Water Appropriation Permit for Pit Trench Water (V2F and NL27)	Permit application submittals anticipated February/March 2027 (V2F and NL27)	Responses anticipated March 2027 (V2F and NL27)
	N/A	State Protected Species Consultation (V2F and NL27)	Consultation letters submitted February 2026 (V2F) Consultation initiated January 2025 (NL27)	Consultation ongoing, expect final responses summer 2026 after plant surveys complete (V2F) Consultation ongoing, expect final responses summer 2026(NL27)
State Historical Society of Minnesota	N/A	Section 106 Consultation, NHPA (V2F and NL27)	Submission of cultural reports and UDP February 9, 2026 (V2F) Submission of cultural reports and UDP February 25, 2026 (NL27)	Response anticipated April/May 2026
MDA (V2F and NL27)	N/A	Comments on Northern's Noxious Weed Mitigation Plan (V2F and NL27)	Coordination initiated February 17, 2026 (V2F and NL27)	Response anticipated April 2026(V2F and NL27)
Iowa (V2F)				
IDNR (V2F)	From EPA	IPDES Air Permits (V2F)	No compressor/compressor station(s) (V2F)	N/A (V2F)
	From EPA	Section 401 Water Quality Certification (V2F)	No wetland impacts in Iowa; permit not required (V2F)	N/A (V2F)
	N/A	Section 402 of the Clean Water Act, National Pollution Discharge Elimination System (V2F)	Environmental Review request via IA PERMT database submitted May 2025 (V2F)	Response received May 2025 (V2F)
	N/A	Iowa General Permit No. 2 stormwater discharge associated	Permit application submittals anticipated	Response anticipated April 2026 (V2F)

Responsible Agency	Delegated Authority	Permit or Clearance Required	Status of Permit/Clearance	Anticipated Permit Receipt Date
		with construction activities (V2F)	February/March 2026 (V2F)	
	N/A	Water Allocation and Use Permit (V2F)	Permit application submittals anticipated Q3 2026 (V2F)	Authorization anticipated Q3 2026 (V2F)
	N/A	Floodplain Development Permit (V2F)	Environmental Review request via IA PERMT database submitted May 2025 (V2F)	Response received May 2025 (V2F)
Iowa State Historical Society (V2F)	N/A	Section 106 Consultation, NHPA (V2F)	Submission of cultural reports and UDP February 16, 2026 (V2F)	Response anticipated March 2026 (V2F)

EXHIBIT K

- - -

COST OF FACILITIES

Exhibit K - Cost Summary of Project Estimates

Description	Total Cost	Right of Way	Surveys	Materials	Labor	Engineering & Inspection	Taxes ¹	Freight ²	Environmental	Overheads	AFUDC	Contingencies
Northern Lights 2027 Expansion Project	\$132,777,653	\$6,570,048	\$1,638,176	\$23,211,535	\$65,624,710	\$12,921,017			\$7,521,479	\$2,457,442	\$5,823,499	\$7,009,747
Albert Lea M500 E-line	\$22,207,627	\$414,178	\$408,000	\$4,310,458	\$12,414,640	\$1,306,274			\$957,849	\$415,088	\$990,570	\$990,570
Lake Mills M500 E-line	\$12,748,452	\$379,437	\$290,000	\$3,137,816	\$5,873,100	\$946,739			\$745,788	\$238,285	\$568,644	\$568,643
Willmar 3rd Branch Line Upstream	\$15,887,150	\$3,239,592	\$112,000	\$2,591,521	\$6,170,600	\$1,108,564			\$664,842	\$290,963	\$694,356	\$1,014,712
Willmar 3rd Branch Line Downstream	\$26,498,381	\$498,692	\$333,200	\$4,166,213	\$14,513,780	\$2,777,290			\$1,350,000	\$495,288	\$1,181,959	\$1,181,959
Welcome 2nd Line	\$4,443,244	\$246,009	\$30,000	\$862,004	\$1,914,960	\$565,840			\$345,000	\$83,050	\$198,191	\$198,190
Minnesota Interconnect 2nd branch line	\$6,365,984	\$344,584	\$90,000	\$894,008	\$3,116,560	\$718,935			\$515,000	\$118,988	\$283,954	\$283,955
Springfield 2nd branch line	\$21,468,728	\$660,283	\$157,456	\$2,015,449	\$11,753,920	\$2,715,396			\$1,514,000	\$394,243	\$940,825	\$1,317,156
Worthington 2nd branch line	\$6,197,436	\$263,601	\$42,000	\$790,230	\$3,275,460	\$751,435			\$406,000	\$115,838	\$276,436	\$276,436
Alexandria 2nd branch line	\$4,453,167	\$291,557	\$31,200	\$506,364	\$2,085,920	\$550,990			\$337,000	\$79,681	\$190,152	\$380,303
Paynesville 2nd branch line	\$6,707,484	\$222,115	\$139,320	\$393,472	\$3,397,770	\$899,554			\$676,000	\$120,018	\$286,412	\$572,823
Hugo Compressor Station Uprate	\$5,800,000	\$10,000	\$5,000	\$3,544,000	\$1,108,000	\$580,000			\$10,000	\$106,000	\$212,000	\$225,000
Ventura-to-Farmington A-line Abandonment and Capacity Replacement Project	\$146,532,569	\$3,802,367	\$1,861,076	\$24,622,815	\$80,492,065	\$8,038,379			\$6,026,147	\$3,156,225	\$6,242,143	\$12,291,352
Lake Mills M500 E-line	\$68,083,176	\$820,753	\$819,876	\$11,575,927	\$38,267,266	\$3,548,688			\$2,887,500	\$1,668,096	\$2,896,001	\$5,599,069
Albert Lea M500 E-line	\$20,049,163	\$341,465	\$214,000	\$3,491,696	\$10,810,210	\$1,309,285			\$841,456	\$489,834	\$850,406	\$1,700,811
Faribault M500 D-line	\$58,400,230	\$2,640,149	\$827,200	\$9,555,192	\$31,414,589	\$3,180,406			\$2,297,191	\$998,295	\$2,495,736	\$4,991,472
GRAND TOTAL	\$279,310,222	\$10,372,415	\$3,499,252	\$47,834,350	\$146,116,775	\$20,959,396	\$0	\$0	\$13,547,626	\$5,613,667	\$12,065,642	\$19,301,099

¹ Taxes are included in total cost of materials
² Freight cost are included in total cost of materials

EXHIBIT N
REVENUES, EXPENSES AND INCOME

NORTHERN NATURAL GAS COMPANY
Northern Lights 2027
ESTIMATED INCREMENTAL REVENUE
(IN \$000)

LINE NO.	DESCRIPTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4
1	INCREMENTAL REVENUES 1/	\$ 25,019	\$ 25,019	\$ 25,019	\$ 25,019
2	INCREMENTAL COST OF SERVICE	15,834	15,252	14,708	14,196
3	DIFFERENCE	<u>\$ 9,185</u>	<u>\$ 9,767</u>	<u>\$ 10,311</u>	<u>\$ 10,823</u>

1/ Incremental revenues are based on the reservation rates agreed to in the contracts.

NORTHERN NATURAL GAS COMPANY
Northern Lights 2027
Estimated Incremental Cost of Service

Line No.	Description	Year 1 (1)	Year 2 (2)	Year 3 (3)	Year 4 (4)
1	Operating Expenses 1/	\$ 116,129	\$ 119,032	\$ 122,008	\$ 125,058
2	Depreciation and				
3	Amortization Expenses 2/	\$ 2,364,299	\$ 2,364,299	\$ 2,364,299	\$ 2,364,299
4	Taxes				
5	Federal Income Tax 3/	\$ 2,072,937	\$ 1,973,560	\$ 1,880,468	\$ 1,792,998
6	State Income Tax 4/	\$ 644,223	\$ 613,339	\$ 584,408	\$ 557,224
7	Other 5/	\$ 1,340,541	\$ 1,340,541	\$ 1,340,541	\$ 1,340,541
8	Return @ 9.42% 6/	\$ 9,296,115	\$ 8,841,670	\$ 8,415,962	\$ 8,015,966
9	Total Cost of Service	<u>\$ 15,834,244</u>	<u>\$ 15,252,441</u>	<u>\$ 14,707,686</u>	<u>\$ 14,196,087</u>

1/ Incremental O&M

2/ From Exhibit N, Page 3, Line 11

3/ From Exhibit N, Page 7, Line 12

4/ From Exhibit N, Page 7, Line 15

5/ From Exhibit N, Page 4, Line 2

6/ From Exhibit N, Page 5, Line 5

NORTHERN NATURAL GAS COMPANY
Northern Lights 2027
Estimated Incremental Depreciation Expense

Line No.	Description	Months in				
		Service	Year 1	Year 2	Year 3	Year 4
		Year 1	(1)	(2)	(3)	(4)
	<u>Rate 1/</u>					
1	Depreciation Rate		2.59%			
2	CIAC Reiciaved (Capital Coverage)	\$	(41,491,974)	\$ (41,491,974)	\$ (41,491,974)	\$ (41,491,974)
3	Compression Facilities	\$	-	\$ -	\$ -	\$ -
4	Town Border Stations	\$	-	\$ -	\$ -	\$ -
5	Main Line Extension	\$	86,818,854	\$ 86,818,854	\$ 86,818,854	\$ 86,818,854
6	Pipeline Tie Over	\$	-	\$ -	\$ -	\$ -
7	Underground Storage	\$	-	\$ -	\$ -	\$ -
8	Branch Line Loops	\$	45,958,799	\$ 45,958,799	\$ 45,958,799	\$ 45,958,799
9	Total	\$	<u>91,285,679</u>	<u>\$ 91,285,679</u>	<u>\$ 91,285,679</u>	<u>\$ 91,285,679</u>
	Land/ Non Depr Plant	\$	-	\$ -	\$ -	\$ -
	<u>Depreciation and Amortization Expense</u>					
10	Depreciation - @ 2.59%	12	\$2,364,299	\$2,364,299	\$2,364,299	\$2,364,299
11	Incremental Depreciation Exp.		<u>\$2,364,299</u>	<u>\$2,364,299</u>	<u>\$2,364,299</u>	<u>\$2,364,299</u>

1/ Depreciation rate of 2.49 and 0.1% Negative Salvage rate was approved in NNG's Rate Case settlement in Docket No. RP22-1033.

NORTHERN NATURAL GAS COMPANY
Northern Lights 2027
Estimated Incremental Taxes Other

<u>Line</u> <u>No.</u>	<u>Description</u>	<u>Year 1</u> <u>(1)</u>	<u>Year 2</u> <u>(2)</u>	<u>Year 3</u> <u>(3)</u>	<u>Year 4</u> <u>(4)</u>
1	Ad Valorem Taxes	\$ 1,340,541	\$ 1,340,541	\$ 1,340,541	\$ 1,340,541
2	Total Taxes - Other	<u>\$1,340,541</u>	<u>\$1,340,541</u>	<u>\$1,340,541</u>	<u>\$1,340,541</u>

NORTHERN NATURAL GAS COMPANY
Northern Lights 2027
Estimated Return

Line No.	Description	Year 1 (1)	Year 2 (2)	Year 3 (3)	Year 4 (4)
1	Plant	\$ 91,285,679	\$ 91,285,679	\$ 91,285,679	\$ 91,285,679
	Less:				
	Accumulated Provision for				
2	Depreciation and Amort.	(\$2,364,299)	\$ (4,728,598)	\$ (7,092,897)	\$ (9,457,196)
	Accumulated Deferred				
3	Income Taxes	\$ 9,458,160	\$ 7,013,129	\$ 4,872,220	\$ 3,003,419
4	Total Rate Base	\$ 98,379,540	\$ 93,570,210	\$ 89,065,002	\$ 84,831,902
5	Total Rate of Return @9.42% 1/	\$ 9,296,115	\$ 8,841,670	\$ 8,415,962	\$ 8,015,966
6	Return on Equity	\$ 7,647,363	\$ 7,273,518	\$ 6,923,313	\$ 6,594,261
7	Return on Debt	\$ 1,648,752	\$ 1,568,152	\$ 1,492,649	\$ 1,421,706
8	Total Return on Rate Base	\$ 9,296,115	\$ 8,841,670	\$ 8,415,962	\$ 8,015,966

1/ The 9.42% Rate of Return is based on a 12.37% .return on equity from the 2024 Form 2 and 4.51% cost of debt

NORTHERN NATURAL GAS COMPANY
Northern Lights 2027
Estimated Incremental Deferred Taxes

Line No.	Description	Year 1 (1)	Year 2 (2)	Year 3 (3)	Year 4 (4)
1	Tax Plant	\$ -	\$ 126,954,154	\$ 126,954,154	\$ 126,954,154
2	Plant Addition (Excludes Equity AFUDC)	\$ 126,954,154	\$ -	\$ -	\$ -
	Total Plant in Service	<u>\$ 126,954,154</u>	<u>\$ 126,954,154</u>	<u>\$ 126,954,154</u>	<u>\$ 126,954,154</u>
4	Accumulated Deferred Taxes:				
5	Accumulated Tax Depreciation %	5.00%	14.50%	23.05%	30.75%
6	Accumulated Tax Depreciation	\$ 6,347,708	\$ 18,408,352	\$ 29,262,932	\$ 39,038,402
7	Accumulated Book Depreciation % 1/	1.86%	3.72%	5.59%	7.45%
8	Accumulated Book Depreciation	\$ 2,364,299	\$ 4,728,598	\$ 7,092,897	\$ 9,457,196
9	Accumulated Excess Tax Depreciation	\$ 3,983,409	\$ 13,679,754	\$ 22,170,035	\$ 29,581,206
	CIAC payment to NNG	\$ (41,491,974)			
10	Effective Tax Rate 2/	25.22%			
11	Total end of year Accumulated Deferred				
12	Taxes Balance - Credit	<u>\$ (9,458,160)</u>	<u>\$ (7,013,129)</u>	<u>\$ (4,872,220)</u>	<u>\$ (3,003,419)</u>

1/ Depreciation rate of 2.49 and 0.1% Negative Salvage rate was approved in NNG's Rate Case settlement in Docket No. RP22-1033.

2/ Deferred Tax rate which includes composite state income tax rate

NORTHERN NATURAL GAS COMPANY
Northern Lights 2027
Estimated Federal and State Income Taxes

Line No.	Description	Year 1 (1)	Year 2 (2)	Year 3 (3)	Year 4 (4)
1	Return on Equity 1/	\$ 7,647,363	\$ 7,273,518	\$ 6,923,313	\$ 6,594,261
2	Return on Debt 1/	\$ 1,648,752	\$ 1,568,152	\$ 1,492,649	\$ 1,421,706
3	Total Return	\$ 9,296,115	\$ 8,841,670	\$ 8,415,962	\$ 8,015,966
	Less:				
4	Interest expense	\$ (1,648,752)	\$ (1,568,152)	\$ (1,492,649)	\$ (1,421,706)
	Other Adjustments:				
5	Amortization of AFUDC Equity 2/	1 \$ 150,829	\$ 150,829	\$ 150,829	\$ 150,829
6	Subtotal	\$ (1,497,923)	\$ (1,417,323)	\$ (1,341,820)	\$ (1,270,877)
7	Taxable Income After Adjustments	\$ 7,798,191	\$ 7,424,346	\$ 7,074,142	\$ 6,745,089
8	Federal Income Tax (26.582% of line 7)	\$ 2,072,937	\$ 1,973,560	\$ 1,880,468	\$ 1,792,998
9	Taxable Income Before Income Taxes	\$ 9,871,128	\$ 9,397,907	\$ 8,954,610	\$ 8,538,088
	Federal Income Tax Applicable to :				
10	Common Equity	\$ 2,032,843	\$ 1,933,467	\$ 1,840,374	\$ 1,752,905
11	Other Tax Adjustments	\$ 40,094	\$ 40,094	\$ 40,094	\$ 40,094
12	Total Federal Income Tax	\$ 2,072,937	\$ 1,973,560	\$ 1,880,468	\$ 1,792,998
	State Income Tax Applicable to:				
13	Common Equity	\$ 631,763	\$ 600,879	\$ 571,948	\$ 544,764
14	Other Tax Adjustments	\$ 12,460	\$ 12,460	\$ 12,460	\$ 12,460
15	Total State Income Tax (6.53% of Line 9) 3/	\$ 644,223	\$ 613,339	\$ 584,408	\$ 557,224

1/ The 9.42% Rate of Return is based on a 12.37% average return on equity and 4.51% cost of debt

2/ AFUDC Equity is taxed as it is recovered.

3/ Northern's composite state income tax rate of 6.13%

EXHIBIT P
TARIFF

NORTHERN NATURAL GAS COMPANY
PROJECT - Northern Lights 2027 Expansion
RATE COMPARISON

	<u>Interim Rates 1/</u>	<u>Adjusted Rates 2/</u>	<u>Rate Difference</u>	<u>Percent of Change</u>
<u>RATE SCHEDULE</u>				
TF BASE SUMMER	\$16.257	\$16.081	(\$0.176)	-1.1%
TF VARIABLE/TFX SUMMER	\$16.257	\$16.081	(\$0.176)	-1.1%
TF BASE WINTER	\$29.263	\$28.946	(\$0.317)	-1.1%
TF VARIABLE WINTER	\$39.667	\$39.239	(\$0.428)	-1.1%
TF5/TFX WINTER	\$43.353	\$42.884	(\$0.469)	-1.1%

ASSUMPTIONS:

1/ Interim Rates approved by Order issued January 15, 2026 in Docket No. RP25-989-005

2/ Per Exhibit N, reflects the addition of the Northern Lights 2027 expansion project billing determinants representing the revenue and cost of service of \$25.0m and \$15.8m, respectively

EXHIBIT Y

- - -

ACCOUNTING TREATMENT

Northern Natural Gas
Northern Lights 2027 Pipeline Abandonments
Exhibit Y - Proposed Accounting (Plant Balances as of January 31, 2026)

ACCOUNTING TREATMENT:

ACCOUNT	DESCRIPTION	DEBIT	CREDIT
Associated Project: Faribault M500 D-line			
TO RECORD VENTURA-TO-FARMINGTON (D-LINE) Abandonment			
108	Accumulated Provision for Depreciation of Gas Utility Plant	76,455	
101	Gas Plant in Service		76,455
Associated Project: Ventura Compressor Station Disconnect			
TO RECORD VENTURA-TO-ROSEMOUNT JUNCTION (A-LINE) Abandonment			
108	Accumulated Provision for Depreciation of Gas Utility Plant	24,194,556	
101	Gas Plant in Service		24,194,556
Associated Project: Farmington Compressor Station Disconnect			
TO RECORD VENTURA TO WELD CAP REFERENCE MP 40.72 (J-LINE) Abandonment			
108	Accumulated Provision for Depreciation of Gas Utility Plant	1,260,645	
101	Gas Plant in Service		1,260,645
TO RECORD REMOVAL COSTS OF FACILITIES			
108	Accumulated Provision for Depreciation of Gas Utility Plant	3,251,000	
131	Cash		3,251,000
TO RECORD DEFERRED INCOME TAX			
410.1	Federal Deferred Income Taxes, Utility Operating Income	1,561,454	
282	Federal Accumulated Deferred Income Taxes		1,561,454
410	State Deferred Income Taxes, Utility Operating Income	419,176	
282	State Accumulated Deferred Income Taxes		419,176
TO RECORD CURRENT INCOME TAX			
236	Federal Income Taxes Accrued	1,561,454	
409	Federal Income Taxes, Utility Operating Income		1,561,454
236	State Income Taxes Accrued	419,176	
409.1	State Income Taxes, Utility Operating Income		419,176

EXHIBIT Z

Fuel Study

Northern Natural Gas Market Area Zone EF Fuel Study

Project Area Throughput Range (Dth/Day)	Anticipated Daily Fuel Usage in Project Area		Anticipated Days at Throughput Range per Three- Year Period		Three-Year Projection of Fuel Use in the Project Area		Three-Year Projection of Throughput in the Project Area ⁽¹⁾	
	(Dth/Day)		(Days)		(Dth)		(Dth)	
	Existing Facilities	Proposed Facilities	Existing Facilities	Proposed Facilities	Existing Facilities	Proposed Facilities	Existing Facilities	Proposed Facilities
3,300,000 or greater	28,493	27,335	1	3	28,493	82,005	3,523,820	10,227,010
3,250,000-3,300,000	28,028	27,131	1	0	28,028	0	3,263,998	0
3,150,000-3,250,000	26,776	26,195	1	0	26,776	0	3,240,988	0
3,050,000-3,150,000	25,619	25,100	2	5	51,238	125,500	6,127,566	15,550,103
2,950,000-3,050,000	22,933	22,982	7	8	160,531	183,856	20,971,184	24,014,202
2,850,000-2,950,000	21,522	21,218	6	7	129,132	148,526	17,352,484	20,321,720
2,750,000-2,850,000	20,934	20,574	10	18	209,340	370,332	27,947,569	50,326,296
2,650,000-2,750,000	20,142	19,782	15	10	302,130	197,820	40,632,516	26,892,764
2,550,000-2,650,000	18,151	18,200	14	13	254,114	236,600	36,312,394	33,798,421
2,450,000-2,550,000	17,756	17,130	18	19	319,608	325,470	44,677,603	47,745,438
2,350,000-2,450,000	15,341	14,012	10	14	153,410	196,168	24,081,168	33,460,219
2,250,000-2,350,000	13,941	13,029	21	22	292,761	286,638	48,173,585	50,668,396
2,150,000-2,250,000	12,942	12,437	22	35	284,724	435,295	48,310,996	76,795,097
2,050,000-2,150,000	12,325	12,049	34	30	419,050	361,470	71,540,485	62,734,410
1,950,000-2,050,000	9,382	8,515	39	56	365,898	476,840	77,758,237	111,888,736
1,850,000-1,950,000	9,082	8,242	57	46	517,674	379,132	108,515,775	87,641,031
1,750,000-1,850,000	8,657	7,786	41	40	354,937	311,440	74,028,235	71,812,500
1,650,000-1,750,000	7,138	6,405	45	43	321,210	275,415	76,252,513	73,049,334
1,550,000-1,650,000	6,831	5,977	41	42	280,071	251,034	65,618,237	67,040,866
1,450,000-1,550,000	5,622	5,153	37	31	208,014	159,743	55,797,048	46,432,001
1,350,000-1,450,000	3,848	3,371	39	46	150,072	155,066	54,626,093	64,177,397
1,250,000-1,350,000	3,352	3,113	65	60	217,880	186,780	84,149,408	77,788,874
1,150,000-1,250,000	3,031	2,895	67	98	203,077	283,710	80,185,370	116,669,178
1,050,000-1,150,000	3,053	2,792	149	139	454,897	388,088	163,825,023	153,117,054
950,000-1,050,000	2,619	2,352	129	137	337,851	322,224	128,789,150	136,573,210
850,000-950,000	2,214	2,080	124	107	274,536	222,560	112,181,396	96,530,543
750,000-850,000	1,003	963	68	43	68,204	41,409	55,171,181	34,924,735
650,000-750,000	806	781	19	15	15,314	11,715	13,599,189	10,640,514
550,000-650,000	800	780	10	5	8,000	3,900	6,108,044	3,103,045
450,000-550,000	293	290	0	0	0	0	0	0
3 Year Total			1,092	1,092	6,436,970	6,418,736	1,552,761,255	1,603,923,094
Annual Average					2,145,657	2,139,579	517,587,085	534,641,031
Expected Annual Increase						-6,078		17,053,946
					Annual Average Fuel Rate		0.415%	0.400%
					Expected Fuel Rate Change			-0.014%

(1) Total proposed throughput includes incremental load for both Northern Lights 2025 and Ventura to Farmington + Northern Lights 2027.