

September 19, 2023

Via Electronic Mail Only

Mr. Steve Kahl
Executive Director
North Dakota Public Service Commission
600 E. Boulevard, Dept. 408
Bismarck, North Dakota 58505-0480
ndpsc@nd.gov

**In re: Cerilon GTL ND Inc.
2023 Ten Year Plan
Our Matter No. 201121-000001**

Dear Mr. Kahl:

On behalf of Cerilon GTL ND Inc., enclosed for filing is a copy of the entity's 2023 Ten Year Plan. The Williams County Auditor has been served with a copy of the Ten Year Plan and notice of the filing has been given to each agency and officer designated in North Dakota Administrative Code § 69-06-01-05. A copy of the corresponding Certificates of Service are also enclosed for filing.

Please feel free to contact me with any questions.

Sincerely,

CROWLEY FLECK PLLP



Casey A. Furey

CAF/lh
Enc.

cc: Rochelle Harding (via email w/enc.)

CERTIFICATE OF SERVICE

I, the undersigned, hereby certify that on September 19, 2023, a true and correct copy of the following document:

- **Cerilon GTL ND Inc.'s Ten Year Plan**

was sent via certified mail, return receipt requested, to the person to be served at their last known post office address as follows:

Beth M. Innis
Williams County Auditor
P.O. Box 2047
Williston, ND 58802-2047

Dated this 19th day of September, 2023.

CROWLEY FLECK PLLP
Attorneys for Cerilon GTL ND Inc.
100 West Broadway Ave., Suite 250
P.O. Box 2798
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cfurey@crowleyfleck.com

By: _____


Casey A. Furey (#08035)

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF NORTH DAKOTA**

Cerilon GTL ND Inc.

Case No. PU-23-___

Ten Year Plan

INTRODUCTION

Cerilon GTL ND Inc. (Cerilon) intends to construct the Cerilon GTL North Dakota Project (Project), which includes two gas-to-liquid (GTL) facilities (Phase 1 and Phase 2) on a single site in Williams County, North Dakota. Each GTL facility will convert natural gas to liquid hydrocarbon products, namely ultra-low sulfur diesel, naphtha, and Group III+ base oils. Excess heat generated in the production of these liquid products will also be used to generate steam. This steam will then be used to generate electric power as a secondary benefit. The Project meets both the definitions of *electric energy conversion facility* and *gas or liquid energy conversion facility* under North Dakota Century Code (NDCC) Sections 49-22-03(5) and 49-22.1-01(6), respectively. Because the Project includes an electric generation facility regulated under NDCC 49-22, Cerilon is submitting this ten-year plan.

Ten-year plans are required for each electric utility that owns or operates, or plans within the next ten years to own, operate, or start construction on any facility. Cerilon will file an updated plan on or before July first of each even-numbered year after the year of its initial submission. This ten-year plan was prepared in accordance with the North Dakota Public Service Commission's (Commission) requirements under Chapter 49-22-04 of the North Dakota Century Code (NDCC). Cerilon will provide additional information to the Commission upon request.

ELECTRICAL GENERATION

The process of converting natural gas to liquids combines several high temperature and exothermic process units. This heat energy will be recovered to the extent practicable through several steam generating heat exchangers. The processes that convert gas-to-liquids will also generate gases that will be burned as fuel in process heaters and steam generating boilers (i.e., fuel gas). Cerilon plans to operate the steam generating boilers such that the facility's consumption of the fuel gas matches its production, thus generating useful heat and electricity from the excess fuel rather than sending it to a vapor combustion unit or flare for disposal.

The steam produced by the heat exchangers and the package boilers will be used to generate electric energy via two steam turbines and generators per GTL Facility. The turbines and generators at each GTL facility will be capable of meeting the electrical demand of that GTL Facility during normal operations, with excess power sold to the regional system. Purchased electricity will be required during facility start-up, during shutdowns, and in the event of failure of onsite generation. Based on current design, Cerilon estimates that the overall electrical generation capacity will be 100 megawatt per phase (gross design capacity), with most of the electrical power generated being used on-site (i.e., less than 50 megawatts provided to the regional electrical system per phase). As engineering decisions evolve regarding the GTL Facilities' power consumption and generation capacity, Cerilon will update electricity generation, consumption, and export numbers.

The Project will be interconnected to the regional electrical distribution system to serve internal demands and to supply excess power to the regional system. Lower Yellowstone Rural Electric Cooperative (LYREC) is the electrical distributor in the region. Cerilon will construct, own, and operate electrical infrastructure inside the Project Site and LYREC will construct, own, and operate infrastructure beyond the Project Site.

SECTION 1: *Owned Energy Conversion Facilities.* *A description of the general location, size, and type of all facilities to be owned or operated by the utility during the ensuing 10 years, as well as those facilities to be removed from service during the 10-year period.*

Cerilon is planning to construct the Project on approximately 370 acres in Sections 25 and 36, Township 153 North, Range 103 West in Williams County. Each GTL facility will convert 240 million standard cubic feet per day (MMscf/day) of natural gas to approximately 24,000 barrels per day (bpd) of liquid hydrocarbon products. Two GTL facilities will be constructed (Phase 1 and Phase 2) so in total, following Phase 2, the Project will convert 480 MMscf/day of natural gas to 48,000 bpd of liquid hydrocarbon products (i.e., the gross design capacity). Based on current design, Cerilon estimates that the overall electrical generation capacity will be 100 megawatt per phase (gross design capacity), with most of the electrical power generated being used on-site (i.e., less than 50 megawatts provided to the electrical grid per phase, net design capacity).

No facilities are planned be removed from service during the 10-year period.

SECTION 2: *Energy Conversion Facilities and Transmission Under Construction.* *An identification of the location of the tentative preferred site for all electric energy conversion facilities and the tentative location of all electric transmission facilities on which construction is intended to be commenced within the ensuing five years and such other information as may be required by the commission. The site and corridor identification shall be made in compliance with the criteria published by the commission pursuant to section 49-22-05.1.*

See Section 1 for information regarding the location of the preferred site. Transmission lines to and from the Project Site are planned to be constructed in 2025 or 2026 by a third-party who will also operate and maintain them (Lower Yellowstone Rural Electric Cooperative [LYREC]). The tentative preferred site for the electric energy conversion facility is described in SECTION 1 of this Ten-year plan. Construction of Phase 1 of the Project is projected to begin in 2025 and completed in 2028.

SECTION 3: *Coordinated Regional Plan for Meeting Utility Needs.* *A description of the efforts by the utility to coordinate the plan with other utilities so as to provide a coordinated regional plan for meeting the utility needs of the region.*

Cerilon has engaged with Basin Electric Power Cooperative (BEPC), Upper Missouri Power Cooperative (UMPC), and LYREC to discuss the Project and all expressed significant interest in additional electric energy generating capacity connecting to the grid near the Project Site. Cerilon is working with BEPC, UMPC, and LYREC to verify their needs for the interconnection to the grid and commercial arrangements for the purchase of the power. Cerilon will also be applying to the Southwest Power Pool for the interconnection to the grid (i.e., entering the queue) by October 2023.

SECTION 4: *Environmental Protection and Land-Use Planning.* *A description of the efforts to involve environmental protection and land-use planning agencies in the planning process, as well as other efforts to identify and minimize environmental problems at the earliest possible stage in the planning process.*

Cerilon has conducted environmental review, studies, and surveying in accordance with the Commission's siting criteria set forth in statute and rule. As evidenced by Cerilon's Siting Application for the proposed GTL facility that will be submitted in September 2023, Cerilon employs a robust stakeholder process when planning new resources. Cerilon engages with and complies with all applicable local, state, and federal agencies prior to siting any new resources or facilities. Further, Cerilon utilizes both internal departments and external qualified services from environmental, engineering, land rights, and legal consulting firms.

SECTION 5: *10-Year Projected Demand for Service.* *A statement of the projected demand for the service rendered by the utility for the ensuing 10 years and the underlying assumptions for the projection, with that information being as geographically specific as possible, and a description of the manner and extent to which the utility will meet the projected demands.*

The electrical generation component at the facility is effectively a byproduct of the Project's primary function to convert gas to liquids. Demand for electricity in NW North Dakota remains strong, due to continued oil and gas development in the Bakken region. As mentioned previously, BEPC, UMPC, and LYREC all have expressed interest in additional electric energy generation near the Project's location.

The demand for Cerilon's three primary products is currently projected to be strong. Cerilon's current schedule is for Phase I of the Project to be operating at its maximum liquid product generation capacity, and thus maximum electric energy generation capacity, by mid-2028. Phase II of the Project is scheduled to be operating at its maximum capacity in 2032.

SECTION 6: *Other Relevant Information.* *Any other relevant information as may be requested by the commission.*

Cerilon will provide additional information to the Commission upon request.

**STATE OF NORTH DAKOTA
PUBLIC SERVICE COMMISSION**

NOTICE OF TEN YEAR PLAN FILING

In accordance with North Dakota Century Code § 49-22-04 and North Dakota Administrative Code Ch. 69-06-02, **NOTICE** is hereby provided that on September 19, 2023, Cerilon GTL ND Inc. filed a Ten Year Plan with the North Dakota Public Service Commission:

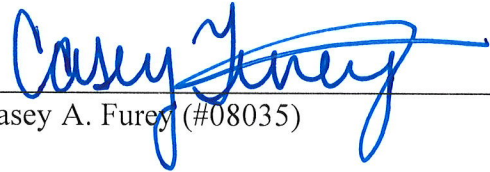
To request a copy of the filing, please contact the North Dakota Public Service Commission or the undersigned.

Dated this 19th day of September, 2023.

CROWLEY FLECK PLLP
Attorneys for Cerilon GTL ND Inc.
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P.O. Box 2798
Bismarck, North Dakota 58502-2798
Phone: (701) 223-6585
Fax: (701) 222-4853
cfurey@crowleyfleck.com

By: _____

Casey A. Furey (#08035)



CERTIFICATE OF SERVICE

I, the undersigned, hereby certify that on the 19th day of September, 2023, a true and correct copy of the following document:

Notice of Ten Year Plan Filing

was placed in the U.S. Mail with postage prepaid, to be served upon the following at their last known post office address as follows:

Kyle C. Wanner, Executive Director ND State Aeronautics Commission 2301 University Dr., Suite 22 Bismarck, ND 58504	Bill Peterson, Director State Historical Society of North Dakota 612 E. Boulevard Avenue Bismarck, ND 58505
Drew Wrigley, Attorney General Office of the Attorney General 600 E. Boulevard Avenue, Dept. 125 Bismarck, ND 58505	Nathan Davis, Executive Director ND Indian Affairs Commission 600 E. Boulevard Avenue 1 st Floor Judicial Wing, Room 117 Bismarck, ND 58505
Doug Goehring, Agriculture Commissioner ND Department of Agriculture 600 E. Boulevard Avenue, Dept. 602 Bismarck, ND 58505	Patrick Bertagnolli, Executive Director Job Service of North Dakota 1601 E. Century Ave. Bismarck, ND 58503
Dr. Nizar Wehbi, State Health Officer ND Department of Health 600 E. Boulevard Avenue, Dept. 301 Bismarck, ND 58505	Joseph A. Heringer, Land Commissioner ND Department of Trust Lands 1707 N. 9 th Street Bismarck, ND 58501
David Glatt, Director ND Department of Environmental Quality 4201 Normandy St. Bismarck, ND 58503-1324	Cody Schulz, Director ND Parks and Recreation Department 604 E. Boulevard Avenue, Dept. 750 Bismarck, ND 58505
Christopher D. Jones, Executive Director ND Department of Human Services 600 E. Boulevard Avenue, Dept. 325 Bismarck, ND 58505	Dan Hovland, State Conservationist ND Natural Resources Conservation Service 220 East Rosser Ave. Federal Building Bismarck, ND 58502-1458
Nathan Svihovec, Commissioner of Labor ND Department of Labor and Human Rights 600 E. Boulevard Avenue, Dept. 406 Bismarck, ND 58505	Andrea Travnicek, Director ND Department of Water Resources 1200 Memorial Highway Bismarck, ND 58504-5262

Wayde Sick, Director and Executive Officer ND Department of Career and Technical Education 600 E. Boulevard Avenue, Dept. 270 Bismarck, ND 58505	Lloyd J. Austin III, Secretary of Defense U.S. Department of Defense DOD Public Affairs 1400 Defense Pentagon Washington, DC 20301-1400
Josh Teigen, Commissioner ND Department of Commerce 1600 E. Century Avenue, Suite 6 Bismarck, ND 58503	U.S. Fish and Wildlife Service ND Ecological Services Field Office 3425 Miriam Avenue Bismarck, ND 58501
ND Department of Trust Lands Energy Infrastructure and Impact Office 1707 N. 9 th Street Bismarck, ND 58501	U.S. Army Corps of Engineers Regulatory Program Manager 3319 University Dr. Bismarck, ND 58504-7565
Jeb Williams, Director ND Game and Fish Department 100 N. Bismarck Expressway Bismarck, ND 58501	U.S. Department of Transportation Federal Aviation Administration 800 Independence Avenue, SW Washington, DC 20591
Claire Vigesaa, Executive Director North Dakota Transmission Authority 600 E. Boulevard Avenue, Dept. 405 Bismarck, ND 58505	Erik Amend Federal Aviation Administration O'Hare Lake Office Center 2300 East Devon Avenue Des Plaines, IL 60018
Karen Tyler ND Industrial Commission 600 E. Boulevard Avenue, Dept. 405 Bismarck, ND 58505	U.S. Federal Aviation Administration 4620 Amber Valley Parkway Fargo, ND 58104
Governor Doug Burgum Office of the Governor, State of North Dakota 600 E. Boulevard Avenue, Dept. 101 Bismarck, ND 58505	Cory Hanson, Chairman Williams County Commission Williams County Administration Building 206 E. Broadway Williston, ND 58801
Ron Henke, Director ND Department of Transportation 608 E. Boulevard Avenue Bismarck, ND 58505	Tom Claeys, State Forester ND Forest Service 916 E. Interstate Ave., Suite #4 Bismarck, ND 58503-1227

Justin Kringstad, Director ND Pipeline Authority 600 E. Boulevard Avenue, Dept. 405 Bismarck, ND 58505	Military Aviation and Installation Assurance Siting Clearinghouse 3400 Defense Pentagon, Room 5C646 Washington, DC 20301-3400
Lynn Helms, Director ND Geological Survey 600 E. Boulevard Ave. Bismarck, ND 58505-0840	Minot Air Force Base Twentieth Air Force 91 st Missile Wing 196 Missile Ave. Minot AFB, ND 58705
Tracy Stone-Manning, BLM Director Federal Bureau of Land Management 1849 C Street NW Washington, DC 20240	Minot Air Force Base Lauren Kinker 196 Missile Ave. Minot AFB, ND 58705
Federal Bureau of Land Management North Dakota Field Office 99 23 rd Ave. West, Suite A Dickinson, ND 58601	Grand Forks Air Force Base 226 Steen Blvd., Bldg. 812 Grand Forks AFB, ND 58205

Dated this 19th day of September, 2023.

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