PSC

GUIDELINES

ENERGY CONVERSION AND TRANSMISSION FACILITY SITING

Ten - Year Plan Reports

Certificate of Site Compatibility

Certificate of Corridor Compatibility

Permit for a Transmission Facility

Waiver of Procedures and Time Schedules

November, 1979

North Dakota Public Service Commission Bismarck, N.D. 58501

NORTH DAKOTA PUBLIC SERVICE COMMISSION

Guidelines For Ten-Year Plan Reports

Chapter 49-22, NDCC

Energy Conversion and Transmission Facility Siting

November, 1979

INTRODUCTION

General.

This document has been prepared by the Public Service Commission for utilities required to submit a Ten-Year Plan report in accordance with Section 49-22-04, NDCC. This document has two purposes:

1. To tell the utility what information must be submitted to the Commission, and;

2. To suggest a format for the presentation of the utility's report.

The Commission reserves the right to alter or amend the form and content of this document consistent with the law and Rules and Regulations. A Ten-Year Plan report may be submitted in a form that does not follow the sequence set forth in these guidelines if all of the required information is included and is clearly indexed to the sequence provided.

The Ten-Year Plan reports are to be directed to:

Secretary to the Commission
North Dakota Public Service Commission
State Capitol Building
Bismarck, North Dakota 58505

Report Format.

The report may consolidate map information required by these guidelines if no congestion of map information occurs. The map scales noted herein are considered to be minimum scales. Any maps using larger scales (that is, capable of showing greater detail) will also be acceptable. All reports should be reproduced and bound to 8½ x 11-inch size. Accompanying maps shall be folded to 8½ x 11 inches, with the title block appearing in the lower right-hand corner. The maps shall be placed in a pocket in the back of the report or in an accompanying folder.

NORTH DAKOTA PUBLIC SERVICE COMMISSION

GUIDELINES

CHAPTER 49-22, NDCC

ENERGY CONVERSION AND TRANSMISSION FACILITY SITING

Ten-Year Plan Reports
Certificate of Site Compatibility
Certificate of Corridor Compatibility
Permit for a Tranmission Facility
Waiver of Procedures and Time Schedules

Siting Division
North Dakota Public Service Commission
State Capitol Building
Bismarck, ND 58505

Richard A. Elkin, President
Bruce Hagen, Commissioner
Ben J. Wolf, Commissioner

Effective Date: November, 1979

NORTH DAKOTA PUBLIC SERVICE COMMISSION

Guidelines For Ten-Year Plan Reports

Chapter 49-22, NDCC

Energy Conversion and Transmission Facility Siting

November, 1979

NORTH DAKOTA PUBLIC SERVICE COMMISSION

Guidelines For Ten-Year Plan Reports

Chapter 49-22, NDCC

Energy Conversion and Transmission Facility Siting

November, 1979

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SECTION A: Existing Energy Conversion Facilities

1. Provide a copy of the latest complete Federal Energy Regulatory Commission Form No. 67 for each existing energy conversion facility.

2. Projected retirement date of any energy conversion facility within the next ten-year time period, identifying the facility as to location and capacity.

SECTION B: Energy Conversion Facilities Under Construction

1. Description: Identify each facility by name, unit number, gross design capacity, and net design capacity.

2. Status and Timetable: Provide the status of each unit by listing the percentage of construction completed to date, and provide a chronology of each unit regarding the anticipated dates of construction completion, initial commercial production, 100 percent capacity factor, and any expansion or additions.

SECTION C: Proposed Energy Conversion Facilities on Which Construction is Intended Within the Ensuing Five Years

1. Location: Provide a location map of ½ inch = 1 mile scale depicting the tentative preferred sites for all proposed energy conversion facilities and the fuel source for each facility.

2. Size and Type: Describe the size of each proposed facility with respect to gross design capacity, net design capacity and estimated capacity factor per year. Describe the type of technology to be employed and provide a diagram of the major process system or flow diagram.

3. Proposed Timetable: Provide a chronology regarding the tentative dates of site indentification, construction, initial commercial production, 100 percent capacity factor, and any anticipated expansion or additions.

4. Pollutants: Address the estimated type and maximum level of air and water pollutant concentrations to be discharged from each proposed facility. Estimate the possible cumulative or synergistic effects on the environment which are anticipated to result from any additional proposed facilities in the area.

SECTION D: Proposed Energy Conversion Facilities During the Next Ten-Year Time Period

1. Location: State the general location where each proposed facility is to be situated.

2. Size and Type: Describe in general terms the size of each proposed facility with respect to gross design capacity and the type of technology to be employed.

3. Proposed Timetable: Provide a chronology regarding the estimated dates of site identification, construction, initial commercial production, and any anticipated expansion or additions.

SECTION E: Existing Transmission Facilities (Electric)

1. Provide a copy of the latest complete Federal Energy Regulatory Commission Form 12 including all maps and diagrams required in Schedule 18.

2. Provide a list of the "in service" dates for all existing facilities.

3. Projected retirement date of any transmission facility within the next ten-year time period, identifying the facility as to location and size.

SECTION F: Existing Transmission Facilities (Pipeline)

1. Location: Provide an up-to-date system map of 1 inch = 40 miles (minimum) showing the location of each facility within the state.

2. Type and Capacity: Provide the design specifications of each facility as follows:

   a. Product type;
   b. Length of facility in miles;
   c. Pipe size;
   d. Maximum design operating pressure;
   e. Maximum design flow rate;
   f. Compressor or pumping station specifications including type, horsepower, output pressure, and capacity; and
   g. Minimum cover over pipe.

3. Provide a list of the "in service" dates for all existing facilities.

4. Projected retirement date of any transmission facility within the next ten-year period, identifying the facility as to location and size.

SECTION G: Proposed Transmission Facilities on Which Construction is Intended Within the Ensuing Five Years (Electric)

1. Location: Provide a location map of legible scale depicting the tentative preferred corridors for all proposed transmission facilities.

2. Geographical Service Area: Provide a map of legible scale showing geographical service area for all proposed transmission facilities.

3. Facility Description: Provide the following information for each facility:

   a. Approximate length of facility in miles;
   b. Voltage;
   c. The requirement for any new associated facilities.

4. Proposed Timetable: Provide a chronology regarding the tentative dates of corridor identification, construction, initial commercial operation, 100 percent load factor and any anticipated expansion or additions.

SECTION H: Proposed Transmission Facilities on Which Construction is Intended Within the Ensuing Five Years (Pipeline)

1. Location: Provide a location map of legible scale depicting the tentative preferred corridors for all proposed transmission facilities.

2. Geographical Service Area: Provide a map of legible scale showing the geographical service area for all proposed transmission facilities.

3. Facility Description: Provide the following information for each facility:

   a. Product type;
   b. Approximate length of facility in miles;
   c. Pipe size;
   d. Design pressure, temperature, and flow rate; and
   e. The number of compressor or pumping stations.

4. Proposed Timetable: Provide a chronology regarding the tentative dates of corridor identification, route identification, construction, initial commercial operation, 100 percent load factor, and any anticipated expansion or additions.

SECTION I: Proposed Transmission Facilities During the Next Ten-Year Time Period (Electric and Pipeline)

1. Location: State the general location where each proposed facility is to be situated.

2. Probable Type: Describe in general terms the technology to be employed.

3. Proposed Timetable: Provide a chrononlogy regarding the estimated dates of corridor identification, construction, initial commercial operation, and any anticipated expansion or additions.

SECTION J: Regional Coordination

1. A statement describing how the utility's plan or plans coordinate with those of other utilities serving the region;

2. A statement of the efforts by the utility to provide a coordinated regional plan to meet energy needs;

3. Whether the proposed facilities comprise all or part of a single regional plan, and the identity of the plans; and

4. Any recommended measure for providing regional coordination and system reliability.

SECTION K: Environmental Information

1. Describe efforts to utilize existing environmental and planning expertise as well as any efforts to manage all impacts created by each proposed energy conversion facility and transmission facility.

SECTION L: Projected Demand for Service

1. Describe both past ten-year historical growth and projected future growth for the next ten-year time period and the underlying assumptions for such projections being as geographically specific as possible.

2. Describe the manner and extent to which the utility will meet its projected demands.

3. Identify load centers, fuel sources and transportation facilities available.

NORTH DAKOTA PUBLIC SERVICE COMMISSION

Application Guidelines For A Certificate Of Site Compatibility

Chapter 49-22, NDCC

Energy Conversion and Transmission Facility Siting

November, 1979

NORTH DAKOTA PUBLIC SERVICE COMMISSION

Application Guidelines For A Certificate Of Site Compatibility

Chapter 49-22, NDCC

Energy Conversion and Transmission Facility Siting

November, 1979

INTRODUCTION

General.

This document has been prepared by the Public Service Commission for utilities wishing to apply for a Certificate of Site Compatibility in accordance with Section 49-22-08, NDCC. This document has three purposes:

1. To tell the applicant what information must be submitted to the Commission;

2. To suggest a format for the presentation of the applicant's information; and

3. To suggest contact between the utility and the Commission staff at the initial stages of the application preparation on all projects.

The Commission reserves the right to alter or amend the form and content of these guidelines, consistent with the law and he Public Service Commission's Rules and Regulations. An application may be submitted in a format that does not follow the sequence set forth in these guidelines if all the required information is included and is clearly indexed to the sequence provided. All sets of the application are to be directed to:

Secretary to the Commission
North Dakota Public Service Commission
State Capitol Building
Bismarck, North Dakota 58505

Application Format.

All applications should be reproduced and bound to 8½ x 11 inch size. Accompanying maps shall be folded to 8½ x 11 inches, with the title block appearing in the lower right-hand corner. The maps shall be placed in a pocket in the back of the application or in an accompanying folder.

SECTION A: Description

1. Type: Describe the type of energy conversion facility proposed and provide a diagram of the major process system or a flow diagram.

2. Product: Describe in general terms and technical terms the products to be produced by the proposed facility.

3. Size and Design: Provide the following description of the production capacity and design:

   a. Gross design capacity;
   b. Net design capacity;
   c. Estimated thermal efficiency of the energy conversion process and the assumptions upon which the estimate is based;
   d. The number of acres that the proposed facility will occupy; and
   e. One (1) copy of all design data reports separate from the application.

4. Time Schedule: Provide the anticipated time schedule for the accomplishment of the following:

   a. Certificate of Site Compatibility;
   b. Land acquisition complete;
   c. Construction start date;
   d. Construction complete;
   e. Test operations;
   f. Commercial production date;
   g. 100 percent capacity factor; and
   h. Any expansion or additions.

SECTION B: Studies

Provide a copy of any evaluative studies or assessments of the environmental impact of the proposed facility submitted to any federal, regional, state or local agency.

SECTION C: Need for Facility

1. An analysis of the need for the proposed facility based on present and projected demand for the product or products to be produced by the proposed facility, including the most recent system studies supporting the analysis of the need.

2. A description of any feasible alternative methods of serving the need.

3. A statement justifying any deviations from the most recent Ten-Year Plan which the proposed facility may present.

SECTION D: Location

1. Select a study area, which includes the proposed facility site, of sufficient size to enable the Commission to evaluate the factors addressed in Section 49-22-09, NDCC.

2. Discuss the utility's policies and commitments to limit the environmental impact of its facilities, including copies of board resolutions and management directives.

3. Identify and map the criteria that led to the proposed facility location within the study area.

4. Discuss in detail the relative value of each criteria and how the proposed facility location was selected giving consideration to all criteria.

5. The criteria to be evaluated shall include at a minimum all of the following which are within the study area:

   a. Exclusion areas;
   b. Avoidance areas;
   c. Selection criteria;
   d. Policy criteria;
   e. Design and construction limitations; and
   f. Economic considerations.

6. Discuss the mitigative measures that will be taken to minimize adverse impacts which result from the location, construction, and operation of the proposed facility.

7. List the qualifications of the people in the various disciplines that contributed to the facility site location study.

8. Maps

   a. Map the criteria within the study area showing the proposed facility location. Several different criteria may be shown on each map,

depending on the map scale and the density and nature of the criteria. Minimum map scale shall be ½ inch = 1 mile. All maps shall be at the same scale unless otherwise specified.

b. Furnish one (1) mylar map, separate from the application, of the same scale as the criteria maps and showing the same basic features as the criteria maps, including the study area, but not the proposed facility location.

NORTH DAKOTA PUBLIC SERVICE COMMISSION

Application Guidelines For A Certificate Of Corridor Compatibility

Chapter 49-22, NDCC

Energy Conversion and Transmission Facility Siting

November, 1979

NORTH DAKOTA PUBLIC SERVICE COMMISSION

Application Guidelines For A Certificate of Corridor Compatiblity

Chapter 49-22, NDCC

Energy Conversion and Transmission Facility Siting

November, 1979

INTRODUCTION

General.

This document has been prepared by the Public Service Commission for utilities wishing to apply for a Certificate of Corridor Compatibility in accordance with Section 49-22-08, NDCC. This document has three purposes:

1. To tell the applicant what information must be submitted to the Commission;

2. To suggest a format for the presentation of the applicant's information; and

3. To suggest contact between the utility and the Commission staff at the initial stages of the application preparation on all projects.

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North Dakota Public Service Commission
State Capitol Building
Bismarck, North Dakota 58505

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SECTION A: Description

1. Type

Describe the type of transmission facility addressed in this application. The description shall include the purpose of the facility and the technology to be employed.

2. Product

Describe the type, source, and final destination of the product to be transmitted by the proposed facility.

3. Size and Design

a. Provide a description of the size and design of the ELECTRICAL facility including, but not limited to, the following:

1. Width of right of way;
2. Estimated span lengths;
3. Anticipated type of structure;
4. Approximate length of facility;
5. Voltage; and
6. The requirement for and general location of any new associated facilities.

b. Provide a description of the size and design of the PIPELINE facility including, but not limited to, the following:

1. Width of right of way;
2. Estimated distance between surface structures such as manholes or block valves;
3. Pipe size;
4. Approximate length of facility;
5. Maximum design operating pressure and temperature;
6. Maximum design flow rate; and
7. The number and general location of compressor or pumping stations.

4. Time Schedule

Provide the anticipated time schedule for the accomplishment of the following events:

a. Certificate of Corridor Compatibility;
b. Route application;
c. Route Permit;
d. Construction start date;
e. Construction complete; and
f. In-service date.

SECTION B: Studies

Provide a copy of any evaluative studies or assessments of the environmental impact of the proposed facility submitted to any federal, regional, state, or local agency.

SECTION C: Need For Facility

1. An analysis of the need for the proposed facility based on present and projected demand for the product transmitted by the facility, including the most recent system studies supporting the analysis of the need.

2. A description of any feasible alternative methods of serving the need.

3. A statement justifying any deviations from the most recent Ten-Year Plan which the proposed facility may present.

SECTION D: Location

1. Select a study area, which includes the proposed corridor, of sufficient width to enable the Commission to evaluate the factors addressed in Section 49-22-09, NDCC.

2. Identify and map the criteria that led to the proposed corridor location within the study area.

3. Discuss the relative value of each criteria and how the proposed corridor location was selected giving consideration to all criteria.

4. The criteria to be evaluated shall include at a minimum all of the following which are within the study area:

   a. Exclusion areas;
   b. Avoidance areas;
   c. Selection criteria;
   d. Policy criteria;
   e. Design and construction limitations; and
   f. Economic considerations.

5. Discuss the general mitigative measures that will be taken to minimize adverse impacts which result from a route location in the proposed corridor.

6. List the qualifications of the people in the various disciplines that contributed to the corridor location study.

7. Maps

a. Map the criteria within the study area showing the proposed corridor. Several different criteria may be shown on each map, depending on the map scale and density and nature of the criteria. Minimum map scale shall be ½ inch = 1 mile. All maps shall be at the same scale unless otherwise specified.

b. Furnish one (1) set of mylar maps, separate from the application, of the same scale as the criteria maps and showing the same basic features as the criteria maps, including the study area, but not the proposed corridor location.

NORTH DAKOTA PUBLIC SERVICE COMMISSION

Application Guidelines For A Route Permit

Chapter 49-22, NDCC

Energy Conversion and Transmission Facility Siting

November, 1979

NORTH DAKOTA PUBLIC SERVICE COMMISSION

Application Guidelines For A Route Permit

Chapter 49-22, NDCC

Energy Conversion and Transmission Facility Siting

November, 1979

INTRODUCTION

General.

This document has been prepared by the Public Service Commission for utilities wishing to apply for a Route Permit in accordance with Section 49-22-08.1, NDCC. This document has three purposes:

1. To tell the applicant what information must be submitted to the Commission;

2. To suggest a format for the presentation of the applicant's information; and

3. To suggest contact between the utility and the Commission staff at the initial stages of the application preparation on all projects.

The Commission reserves the right to alter or amend the form and content of these guidelines consistent with the law and the Rules and Regulations. An application may be submitted in a format that does not follow the sequence set forth in these guidelines if all of the required information is included and is clearly indexed to the sequence provided.

All sets of the application are to be directed to:

Secretary to the Commission
North Dakota Public Service Commission
State Capitol Building
Bismarck, North Dakota 58505

Application Format.

All applications should be reproduced and bound to 8½ x 11 inch size. Accompanying maps shall be folded to 8½ x 11 inches, with the title block appearing in the lower right-hand corner. The maps shall be placed in a pocket in the back of the application or in an accompanying folder.

SECTION A: Description of Transmission Facility

1. Type

Describe the type of transmission facility proposed.

2. Product

Describe the product or products to be transmitted.

3. Size and Design

Provide a general description of the proposed size and design, and any alternate size or design, which was considered. Provide one (1) copy of the design data report, separate from the application, for the proposed facility and any associated facilities.

4. Time Schedule

Provide the anticipated time schedule for the accomplishment of major events including, at a minimum, the following:

a. Route Permit;
b. Right-of-way acquisition complete;
c. Construction start date;
d. Construction complete;
e. Test operations; and
f. In-service date.

SECTION B: Location

1. Discuss the utility's policies and commitments to limit the environmental impact of its facilities, including copies of board resolutions and management directives.

2. Discuss the factors listed in Section 49-22-09, NDCC to aid the Commission's evaluation of the proposed route.

3. Identify and map the criteria that led to the proposed route location within the designated corridor.

4. Discuss in detail the relative value of each criteria and how the location, construction, and operation of the facility will affect each criteria.

5. The criteria to be evaluated shall include at a minimum all of the following which are within the designated corridor:

a. Exclusion areas;
b. Avoidance areas;
c. Selection criteria;
d. Policy criteria;
e. Design and construction limitations; and
f. Economic considerations.

6. Discuss the mitigative measures that will be taken to minimize adverse impacts which result from the location, construction, and operation of the facility.

7. List the qualifications of the people in the various disciplines that contributed to the facility route location study.

8. Maps

a. Map the criteria within the designated corridor showing the proposed route and location of any new associated facilities. Several different criteria may be shown on each map, depending on the map scale and the density and nature of the criteria. Minimum map scale shall be ½ inch = 1 mile. All maps shall be at the same scale unless otherwise specified.

b. Furnish one (1) set of mylar maps, separate from the application, of the same scale as the criteria maps and showing the same basic features as the criteria maps, including the designated corridor, but not the proposed route or location of any new associated facilities.

c. Furnish one (1) set of uncontrolled 9 x 9 inch stereo-pair aerial photographs, separate from the application, with acceptable resolution showing the designated corridor, proposed route and location of any new associated facilities, and Section, Township and Range numbers, at a scale of 1 inch = 2000 feet, together with a flight map at a scale of ½ inch = 1 mile showing each flight line and the beginning and ending photo number of each flight line. Photo mosaic strip maps will also be acceptable. If the applicant can demonstrate that because of the limited size and scope of the project, aerial photographs would not be practical, this requirement may be waived.

NORTH DAKOTA PUBLIC SERVICE COMMISSION

Application Guidelines For Waiver of Procedures And Time Schedules

Chapter 49-22, NDCC

Energy Conversion and Transmission Facility Siting

November, 1979

NORTH DAKOTA PUBLIC SERVICE COMMISSION

Application Guidelines For Waiver Of Procedures And Time Schedules

Chapter 49-22, NDCC

Energy Conversion and Transmission Facility Siting

November, 1979

INTRODUCTION

General.

This document has been prepared by the Public Service Commission for utilities wishing to apply for Waiver of Procedures and Time Schedules in accordance with Section 49-22-07.2, NDCC. This document has two purposes:

1. To tell the applicant what information must be submitted to the Commission, and

2. To suggest a format for the presentation of the applicant's information.

The Commission reserves the right to alter or amend the form and content of these guidelines, consistent with the law and the Public Service Commissions's Rules and Regulations. All sets of the application are to be directed to:

Secretary to the Commission
North Dakota Public Service Commission
State Capitol Building
Bismarck, North Dakota 58505

Application Format.

All applications should be reproduced and bound to 8½ x 11 inch size. Accompanying maps shall be folded to 8½ x 11 inches, with the title block appearing in the lower right-hand corner. The map shall be placed in a pocket in the back of the application or in an accompanying folder.

SECTION A: Description

1. Type

   Describe the type of facility addressed in the application, including the purpose and technology to be employed.

2. Product

   Describe in general terms the products to be produced or transmitted by the proposed facility.

3. Size and Design

Provide a description of the capacity and design of the proposed facility.

4. Location

Describe the location and provide a map showing the location of the proposed facility.

5. Geographical Service Area

Describe the general area to be served by the proposed facility.

6. Time Schedule

Provide a time schedule for proposed accomplishment of major events.

7. Future Plans

Describe any plans for future expansion of the proposed facility.

SECTION B: Need for Facility

1. An analysis of the need for the proposed facility based on present and projected demand for the product or products to be produced by the proposed facility, including the most recent system studies supporting the analysis of the need.

2. A description of any feasible alternative methods of serving the need.

3. A statement justifying any deviations from the most recent Ten-Year Plan which the proposed facility may present.

SECTION C: Cost

Provide an estimate of the total cost of construction of the facility.

SECTION D: Waiver Request

1. List those provisions of the Act, and the Rules and Regulations, which the utility requests the Commission to waive or modify, with a separate justification for each provision. Provide a statement demonstrating that the proposed facility is of such length, design, location, or purpose that it will produce minimal adverse effects.

2. This subsection applies only to emergency situations. Describe in detail the nature of the emergency and justify the need for immediate authority. Provide a statement demonstrating that compliance with the procedures and time schedules of the Act, and the Rules and Regulations, would jeopardize the utility's system.