

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Proposed Rules 25-22.070,
25-22.071 and 25-22.072, F.A.C.,
Contents, Submission, and Review
of Ten-Year Site Plans.

DOCKET NO. 960111-EU
ORDER NO. PSC-97-0727-NOR-EU
ISSUED: June 20, 1997

The following Commissioners participated in the disposition of this matter:

JULIA L. JOHNSON, Chairman
SUSAN F. CLARK
J. TERRY DEASON
JOE GARCIA
DIANE K. KIESLING

NOTICE OF RULEMAKING

NOTICE is hereby given that the Florida Public Service Commission, pursuant to section 120.54, Florida Statutes, has initiated rulemaking to adopt Rules 25-22.070, 25-22.071 and 25-22.072, Florida Administrative Code, relating to contents, submission and review of ten-year site plans.

The attached Notice of Rulemaking will appear in the June 27, 1997 edition of the Florida Administrative Weekly.

If timely requested, a hearing will be held at the following time and place:

Florida Public Service Commission
9:30 a.m., August 19, 1997
Betty Easley Conference Center
Room 152, 4075 Esplanade Way
Tallahassee, Florida

Written requests for hearing and written comments or suggestions on the rules must be received by the Director, Division of Records and Reporting, Florida Public Service Commission, 2540 Shumard Oak Blvd., Tallahassee, FL 32399-0862, no later than July 18, 1997.

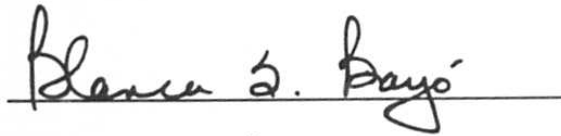
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By ORDER of the Florida Public Service Commission, this 20th
day of June, 1997.

A handwritten signature in cursive script, reading "Blanca S. Bayó", is written over a horizontal line.

BLANCA S. BAYÓ, Director
Division of Records & Reporting

(S E A L)

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FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 960111-EU

RULE TITLE:	RULE NO.:
Ten-Year Site Plans - Definitions	25-22.070
Submission and Review of the Ten- Year Site Plans	25-22.071
Contents of Ten-Year Site Plans	25-22.072

PURPOSE AND EFFECT: The purpose and effect of the rule is to implement section 186.801, Florida Statutes, which requires electric utilities to file ten-year site plans with the Commission, the Commission to review each plan, the Commission to classify each plan as suitable or unsuitable, and the Commission to report all findings to the Department of Environmental Protection.

SUMMARY: The rules define terms and provide the method for submitting and study of electric utility ten-year site plans.

SUMMARY OF STATEMENT OF ESTIMATED REGULATORY COST: Investor-owned electric utilities estimated the additional costs anticipated to comply with the rules will range from negligible to substantial. In addition to the cost associated with the new data requested by the rules, several of these utilities expect indirect competitive costs due to disclosure of certain information or increased direct costs as a result of the need to file requests for

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confidentiality. Of the municipal electric utilities that submitted estimates of additional rule compliance costs, the estimates ranged from a low of \$1,000 to a high of \$5,600. Any person who wishes to provide information regarding the statement of estimated regulatory costs, or to provide a proposal for a lower cost regulatory alternative must do so in writing within 21 days of this notice.

SPECIFIC AUTHORITY: 350.127(2), 186.801(4) FS.

LAW IMPLEMENTED: 186.801, 366.04(5), 366.05(7) FS.

WRITTEN COMMENTS OR SUGGESTIONS ON THE PROPOSED RULE MAY BE SUBMITTED TO THE FPSC, DIVISION OF RECORDS AND REPORTING, WITHIN 21 DAYS OF THE DATE OF THIS NOTICE FOR INCLUSION IN THE RECORD OF THE PROCEEDING.

HEARING: IF REQUESTED WITHIN 21 DAYS OF THE DATE OF THIS NOTICE, A HEARING WILL BE HELD AT THE TIME, DATE, AND PLACE SHOWN BELOW:

TIME AND DATE: 9:30 A.M., August 19, 1997

PLACE: Room 152, Betty Easley Conference Center, 4075 Esplanade Way, Tallahassee, Florida.

THE PERSON TO BE CONTACTED REGARDING THESE PROPOSED RULES IS:

Director of Appeals, Florida Public Service Commission, 2540 Shumard Oak Blvd., Tallahassee, Florida 32399-0862.

THE FULL TEXT OF THESE PROPOSED RULES ARE:

25-22.070 Ten-Year Site Plans - Definitions.

(1) "Electric Utility" means any municipal electric utility, investor-owned electric utility, rural electric cooperative, public utility district, joint operating agency, or combinations thereof, that owns, maintains, or operates an electric generation, transmission, or distribution system within the state.

(2) "Power Plant" means any electrical generating facility using any process or fuel, including nuclear materials, and shall include those directly associated transmission lines required to connect to an existing transmission network.

(3) "Directly Associated Transmission Lines" means only new corridors and transmission lines from the power plant to the first structure on an existing transmission system.

(4) "Potential Sites" are sites within the state that an electric utility is considering for possible location of a power plant, a power plant alteration, or an addition resulting in an increase in generating capacity.

(5) "Preferred Sites" are sites within the state on which an electric utility intends to construct a power plant, a power plant alteration, or an addition resulting in an increase in generating capacity.

Specific Authority: 350.127(2), 186.801(4) F.S.

Law Implemented: 186.801, 366.04(5), F.S.

History: New _____.

25-22.071 Submission and Review of the Ten-Year Site Plans.

(1) Filing Requirements:

(a) All electric utilities in the State of Florida with existing generating capacity of 250 mW or greater shall prepare a ten-year site plan, and submit 25 copies to the Florida Public Service Commission's Division of Records and Reporting on the first working day of April of each year, unless extended. The plan shall date from December 31 of the prior calendar year.

(b) Any electric utility, other than those filing ten-year site plans pursuant to (1)(a), that elects to construct an additional generating facility exceeding 75 mW gross generating capacity shall prepare a ten-year site plan, and submit 25 copies to the Public Service Commission's Division of Records and Reporting in the year the decision to construct is made or at least three years prior to application for site certification, and every year thereafter until the facility becomes fully operational.

(2) The Commission will provide a copy of the ten-year site plans to appropriate federal, state, and local agencies, water management districts, and regional planning councils.

(3) The Commission will solicit comments from various federal, state, and local agencies, water management districts,

and regional planning councils regarding the individual utility ten-year site plans. Any written comments shall be filed with the Commission within 60 days from the date of receipt of the plans. The state agencies from which comments will be solicited will include:

(a) The Department of Environmental Protection.

(b) The Department of Transportation.

(c) The Department of Agriculture and Consumer Services.

(d) The Department of Health.

(e) The Game and Fresh Water Fish Commission.

(f) The Board of Trustees of the Internal Improvement Trust

Fund.

(g) The Department of Community Affairs.

(4) The Commission will complete its review of the plans within nine months following submission and will report its findings, along with any comments or recommendations, to the Florida Department of Environmental Protection and the utilities filing a plan. Other agencies to which the Commission sent the plan for review, and other entities may request a copy of the review from the Division of Electric and Gas, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399.

(5) Plans that have been previously classified by the Commission as unsuitable may be classified suitable based on additional data.

(6) The electric utilities in Florida shall compile aggregate statewide and peninsular Florida (the area east of the Apalachicola River) data derived from the individual electric utility base case ten-year site plans and shall submit this data to the Commission by July 1 of each year.

Specific Authority: 350.127(2), 186.801(4) F.S.

Law Implemented: 186.801, 366.04(5), 366.05(7) F.S.

History: New _____.

25-22.072 Contents of Ten-year Site Plans.

(1) Individual electric utility ten-year site plans required by Rule 25-22.071 shall include at a minimum the information listed in Form PSC/EAG 43. Form PSC/EAG 43 (/97), entitled "Electric Utility Ten-Year Site Plan Information and Data Requirements," is incorporated by reference into this rule and is available from the Division of Electric and Gas.

(2) When an application for certification of a preferred site for a proposed facility has been filed with the Department of Environmental Protection, no further environmental or land use data shall be submitted to the Commission for that site.

Specific Authority: 350.127(2), 186.801(4) F.S.

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Law Implemented: 186.801, 366.04(5), 366.05(7) F.S.

History: New _____.

NAME OF PERSON ORIGINATING PROPOSED RULES: Mark Futrell

NAME OF SUPERVISOR OR PERSONS WHO APPROVED THE PROPOSED RULES:

Florida Public Service Commission.

DATE PROPOSED RULES APPROVED: JUNE 10, 1997

DATE NOTICE OF PROPOSED RULE DEVELOPMENT PUBLISHED IN FAW:

DECEMBER 20, 1996

If any person decides to appeal any decision of the Commission with respect to any matter considered at the rulemaking hearing, if held, a record of the hearing is necessary. The appellant must ensure that a verbatim record, including testimony and evidence forming the basis of the appeal is made. The Commission usually makes a verbatim record of rulemaking hearings.

Any person requiring some accommodation at this hearing because of a physical impairment should call the Division of Records and Reporting at (904) 413-6770 at least five calendar days prior to the hearing. If you are hearing or speech impaired, please contact the Florida Public Service Commission using the Florida Relay Service, which can be reached at: 1-800-955-8771 (TDD).

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State of Florida

Public Service Commission

ELECTRIC UTILITY TEN-YEAR SITE PLAN

INFORMATION AND DATA REQUIREMENTS

Form PSC/EAG 43

(/97)

ELECTRIC UTILITY TEN-YEAR SITE PLAN
INFORMATION AND DATA REQUIREMENTS

The Public Service Commission is responsible for ensuring that Florida's electric utilities plan, develop, and maintain a coordinated electric power grid throughout the state. The Commission also must ensure that electric system reliability and integrity is maintained, that adequate electricity at a reasonable cost is provided, and that plant additions are cost-effective. In order to carry out these responsibilities, the Commission must have information sufficient to assure that an adequate, reliable, and cost-effective supply of electricity is planned and provided. To that end, the Ten-Year Site Plan shall include at a minimum the information and data specified in this form. Where numbered schedules are listed, the data required shall be reported on the schedules:

Description of Existing Facilities

A description of each existing generating and transmission facility shall be provided in the ten-year site plan to permit an evaluation of the capabilities of existing electric utility resources. The information to be provided shall include at least:

1. A description of electric power generating facilities.

2. **Schedule 1:** A tabular display of existing generating facilities as of December 31 of the year prior to the year the plan is filed.

3. An electric system map or maps showing all transmission lines with voltage rating of 230 kV or greater and all interties with voltage rating of 69 kV or greater.

4. A map showing the reporting electric utility's service area, where service area is defined as all areas in which the reporting utility provides electric service at both distribution and transmission levels.

Forecast of Electric Power Demand, and
Energy Consumption

The demand forecast provides a key element of the demonstration of the reliability need for additional generating capacity. The following data shall be provided for a ten year historical period and a ten year forecast period unless otherwise noted:

1. **Schedules 2.1, 2.2, 2.3:** Tabular displays of energy consumption (GWH) and number of customers by customer classification (residential, commercial, industrial, and other) within the reporting electric utility's service area. Other sales and purchases within the state and out-of-state shall be included and identified.

2. **Schedules 3.1, 3.2, 3.3:** Tabular displays of base case winter and summer peak demand (MW), and net energy for load (GWH)

in the reporting service area. Provide, if available, high and low ten year load forecasts of winter and summer peak demand, and net energy for load in the reporting service area based upon high and low rates of economic growth, using the format of tables 3.1-3.3. Provide the major assumptions for each growth scenario. If banded forecasts are not available, describe how the forecasts are tested for sensitivity to varying economic conditions and customer growth rates. Provide the forecast sensitivities for winter and summer peak demand, and net energy for load. The tables shall include electric utility-sponsored residential and commercial/industrial Demand Side Management (DSM) data.

3. **Schedule 4:** A tabular display of monthly peak demand and net energy for load for the most recent calendar year that actual data is available and for the first two forecast years.

4. **Schedule 5:** A base case ten year fuel quantity forecast, in volumetric units such as tons of coal, cubic feet of natural gas, and barrels of oil for all fuels used to generate electricity at ~~the~~ electric utility generating facilities. The data shall be further broken down by type of unit within fuel type such as Combined Cycle (CC), Combustion Turbine (CT), and Steam. Include the most recent two years of actual data.

5. **Schedules 6.1, 6.2:** A base case ten year forecast showing the annual net energy for load (GWH), broken down by fuel type. Include separate categories for purchases from other

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utilities and for purchases from non-utility generators. The data shall be further broken down by type of unit within fuel type such as CC, CT, and Steam. Include the most recent two years of actual data. Also, convert the data described above into percent of net energy for load.

Forecasting Methods and Procedures

Each electric utility shall provide documentation of the forecasting procedures used and the rationale for their use. Describe the types of data and data sources used, and discuss any significant assumptions and informed judgments implicit in the forecast.

Forecast of Facilities Requirements

Each electric utility submitting a ten-year site plan shall illustrate how its existing and proposed generating facilities will provide for the forecasted load. The capacity forecast shall consider all existing generating capability and all plants currently under construction, and compare this total capability to projected demand plus required reserves to determine requirements for additional generating facilities. The requirements forecast shall identify all such facilities whose commercial operation is expected during the ten-year period following December 31 of the forecast year. Specific information to be provided in the forecast of facilities requirement shall include:

1. **Schedules 7.1, 7.2:** Tabular displays listing a ten-year projection of electric capacity, and summer and winter peak demand with resulting reserve margins.

2. **Schedule 8:** A tabular display of the generating unit additions and changes, including unit specific data for each unit

which is expected to commence commercial operation during the ten-year forecast period.

3. **Schedule 9:** A status report and specifications of proposed generating facilities.

4. **Schedule 10:** A status report and specifications of proposed directly associated transmission lines corresponding with proposed generating facilities.

5. Identify the supply-side resources, by year and type, that will need to be constructed by the electric utility or purchased from a non-utility source, after fully integrating cost-effective demand-side resources for the ten-year planning horizon. Include any repowerings, life extensions, and purchases from electric utility and non-utility sources.

Other Planning Assumptions and Information

The ten year site plan shall provide sufficient information to assure the Commission that an adequate and reliable supply of electricity at the lowest cost possible is planned for the state's electric needs. In addition to the data requirements previously identified, the ten-year site plan shall address the following specific areas of the plan including planning assumptions and plan sensitivity.

1. Describe how any transmission constraints were modeled and explain the impacts on the plan. Discuss any plans for alleviating any transmission constraints.

2. Discuss the extent to which the overall economics of the plan were analyzed. Discuss how the plan is determined to be cost-effective. Discuss any changes in the generation expansion plan as a result of sensitivity tests to the base case load forecast.

3. Explain and discuss the assumptions used to derive the base case fuel price forecast. Explain the extent to which the utility tested the sensitivity of the base case plan to high and low fuel price scenarios. If high and low fuel price sensitivities were performed, explain the changes made to the base case fuel price forecast to generate the sensitivities. If high and low fuel price scenarios were performed as part of the planning process, discuss the resulting changes, if any, in the generation expansion plan under the high and low fuel price scenario. If high and low fuel price sensitivities were not evaluated, describe how the base case plan is tested for sensitivity to varying fuel prices.

4. Describe how the sensitivity of the plan was tested with respect to holding the differential between oil/gas and coal constant over the planning horizon.

5. Describe how generating unit performance was modeled in the planning process.

6. Describe and discuss the financial assumptions used in the planning process. Discuss how the sensitivity of the plan was tested with respect to varying financial assumptions.

7. Describe in detail the electric utility's Integrated Resource Planning process. Discuss whether the optimization was based on revenue requirements, rates, or total resource cost.

8. Define and discuss the electric utility's generation and transmission reliability criteria.

9. Discuss how the electric utility verifies the durability of energy savings for its DSM programs.

10. Discuss how strategic concerns are incorporated in the planning process.

11. Describe the procurement process the electric utility intends to utilize to acquire the additional supply-side resources identified in the electric utility's ten-year site plan.

12. Provide the transmission construction and upgrade plans for electric utility system lines that must be certified under the Transmission Line Siting Act (403.52 - 403.536, F.S.) during the planning horizon. Also, provide the rationale for any new or upgraded line.

Environmental and Land Use Information

1. The following information on potential sites for each new generating facility identified in the requirements forecast

shall be provided if the utility has obtained a price for the site either through purchase, option, or other means:

a. A United States Geological Survey map at a scale of 1 inch:24,000 feet showing the general location of the potential site.

b. A description of the existing land use(s) of the site and adjacent area.

c. A description of the general environmental features in the vicinity of the site (i.e., wetlands, uplands, water bodies, other unique features, etc.).

d. A description of projected quantities of water needed for the following uses:

- 1) Industrial processing;
- 2) Industrial cooling;
- 3) Other uses (such as domestic, irrigation, other potable or non-potable uses).

e. A description of potential water supply sources by type (including ground, surface, reclaimed wastewater, other) for each of the above uses.

2. The following information on each identified preferred site for each required facility shall be provided if the utility has obtained a price for the site either through purchase, option, or other means. These sites shall be fully disclosed in the ten-year site plan as soon as all parcels of land making up

the site have either been purchased by, or are under option to, the utility or are the subject of condemnation proceedings.

Land and Environmental Features

a. A United States Geological Survey map at a scale of 1 inch:24,000 feet showing the general location of the preferred site.

b. A map showing the general layout of the proposed facilities on the preferred site.

c. A map of the preferred site and adjacent areas in the vicinity of the preferred site, showing the level III, (or if level III is not available, the level II), Florida Land Use, Cover and Forms Classification System (FLUCCS) land use cover.

d. A description of the existing land use(s) of the preferred site and adjacent areas.

e. A description of the general environmental features on and in the vicinity of the site (i.e., wetlands, uplands, water bodies, other unique features, etc.), including the following:

1) A description of the natural environment, including the types and acreages of the wetland systems, upland systems, water bodies, etc.;

2) A description of all known state and federally listed wildlife and plant species listed as threatened, endangered, or species of special concern;

3) A statement indicating whether all or portions of the preferred site have been designated by the applicable regional planning council(s) as a natural resource of regional significance in their Strategic Regional Policy Plan(s);

4) A description of any other significant features on the preferred site.

f. A description of the design features and mitigation options being considered in the development of the preferred site.

g. A description of local government future land use designations for the site and adjacent areas.

h. A description of the criteria used in the site selection process and the conclusions that resulted in the selection of the preferred site over other potential sites, including consideration of existing or proposed utility and other linear corridors.

Water Supply

i. A general description of the existing ground and surface water resources of the preferred site and adjacent areas, including a description of any water resource caution areas identified by the applicable water management district(s).

j. A description of the geologic features of the preferred site and adjacent areas.

k. A description of projected quantities of water needed for the following uses:

- 1) Industrial processing.
- 2) Industrial cooling.
- 3) Other uses (such as domestic, irrigation, other potable or non-potable uses).

l. A description of potential water supply sources by type (including ground, surface, reclaimed wastewater, other) for each of the uses listed in subsection k. To the extent known, identify the specific aquifers or surface water bodies being considered.

m. A general description of the available water conservation strategies that are being considered in the project design to minimize water demands, including a description of how they may influence the selection and design of the facility's cooling and processing methodologies.

n. A description of potential thermal, industrial, point, and non-point discharges and the applicable pollution control systems that are being considered in the project design to avoid or minimize the adverse impacts of the proposed facility.

o. A general description of any proposed fuel delivery and storage and solid or liquid waste disposal facilities and the applicable design features and pollution control systems that are

being considered to avoid or minimize adverse impacts to ground and surface water resources.

Air and Noise Emissions

p. Estimates of air emissions and a description of potential control systems that are being considered (or used) in the project design to avoid or minimize the adverse impacts of the proposed facility.

q. Estimates of noise emissions and a description of potential control systems that are being considered (or used) in the project design to avoid or minimize the adverse impacts of the proposed facility.

Other

3. Provide the status of the application for certification of the preferred site with the Department of Environmental Protection: certified, certification pending, or certification denied.