

FMPA Transmission Planning Staff and Titles



Brett Carleton
Transmission Planning Supervisor



Ernst Dormevil
Transmission Planning Engineer



Christopher Garcia-Fantuzzi
Transmission Planning Engineer

FMPA Transmission Function Employees and Job Descriptions

Legal/Regulatory Compliance

Transmission Planning Supervisor

Div/Dept: *Legal/Regulatory Compliance*

FLSA Status: *Exempt*

General Definition of Work

Leads advanced technical work in partnership with direct report (Associate Transmission Planning Engineer), conducting a broad range of long term and short-term operations-horizon transmission planning related power system analysis, studies, and functions, prioritizing the area of focus in a highly dynamic environment in support of Transmission Owner and Transmission Operator Members and FMPA's registration as a Transmission Planner for applicable Members. Duties include transmission system load flow, short circuit, transient stability, system reliability, and interconnection studies and evaluations for member requirements (leveraging outside specialized expertise as required). Operating horizon planning studies include next-day planning, seasonal studies, and weekly coordination of outages and confirmation of Available Transmission Capacity (ATC). Work involves both oversight as the lead subject matter expert and direct performance of required studies and work products as a function of expert managerial judgement and intuition on case-specific constraints and objectives in both the operating and planning horizon. Collects, manages, calculates and provides modeling data representing agency assets and member assets as required for Agency's Planning Coordinator function, and related work as apparent or assigned. Supports FMPA's NERC Compliance function on all applicable TO, TP and/or PA/PC functions (as applicable) registrations and maintains up to date working knowledge of evidentiary and documentation requirements to ensure Agency meets strategic goal of zero compliance violations. Works effectively in a highly collaborative matrix environment that includes generation engineering and operations staff to ensure compliance requirements are achieved while adhering to all Code of Conduct standards. Work is performed under the direct supervision of the Deputy General Counsel and Manager of Regulatory Compliance.

Qualification Requirements

To perform this job successfully, an individual must be able to perform each essential function satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Essential Functions

Manages, along with direct report, FMPA's participation in the FRCC Operations Planning Working Group (OPWG) and Florida Transfer Capability Determination Group (FTCDG), as well as FMPA participation in the FRCC Operations Planning Coordination (OPC) process and conducting of next-day operations planning assessments both with direct support and through the Associate Transmission Planning Engineer, serving as key backup to Associate Transmission Planning Engineer and mentoring Associate Transmission Planning Engineer to foster Agency redundancy in core operational business function. Assigns or leads responsibilities

in various other related FRCC working groups as required.

Oversees and/or conducts in partnership with the Deputy General Counsel and Manager of Regulatory Compliance, special transmission planning assessments and studies for the Agency and its members, leveraging specialized consulting expertise as needed, including interconnection studies for new generation and evaluations of system reconfigurations and large customer interconnections, and in support of strategic resource planning studies that intersect with transmission transfer capability and estimates of the same and/or capital projects to enhance capability.

Functions as FMPA subject matter expert on power flow and short circuit analysis. Oversees, develops and maintains members' transmission network load flow, dynamics, short circuit models, and transmission maps. Works with outside expertise in the area of transient stability and dynamics modeling, optimizing needed project and/or compliance related work and studies to help minimize cost to Members.

Performs and prepares reports and interfaces with consultants as required for annual 10-year Long Term Transmission Planning Studies for the North American Electric Reliability Corporation (NERC) compliance, including bulk electric system and non-bulk electric system facilities 69 kV and up, which an emphasis on TPL-001-5 in current and successor forms, as well as other detailed analyses and scenarios of interest to relevant Members.

Functions as Agency representative on Florida Reliability Coordinating Council Operating Committee (OC) as lead and coordinates with Associate Transmission Planning Engineer to support the Transmission Technical Subcommittee (TTS) and Stability Analysis Subcommittee (SAS). Maintains working knowledge of ORS and supports storm-related operational awareness as assigned.

Along with Associate Transmission Planning Engineer, represents the Agency and member cities by participating in the joint Florida Reliability Coordinating Council (FRCC) transmission and interconnection studies.

In partnership with the Deputy General Counsel and Manager of Regulatory Compliance and others as required, prepares annual Federal Energy Regulatory Commission (FERC) Form-715 filing; prepares Network Transmission Service Annual updates with Transmission Providers (FPL and DEF) and supports transmission system data for the Ten-Year Site Plan and other transmission owner required filings, as applicable.

Works closely with FMPA's Regulatory Compliance Team, and key FRCC contacts to service FMPA's TO, TP and/or PA/PC functional registrations that impact transmission planning and Member systems, fostering collaboration in a matrix environment to ensure all compliance evidentiary material, studies, and Compliance Playbook documentation is accurate and up-to-date as directed/led by the Deputy General Counsel and Manager of Regulatory Compliance. As some standards apply to other functions (e.g., GO), significant and targeted collaboration within Power Resources is required to foster compliance success.

Provides support and knowledge of NAESB business practices and Transmission Provider Open Access Transmission Tariff issues associated with scheduling transmission, transmission service requests, generator interconnection studies, and similar OATT related matters.

Maintains strategic analytical tools and models in support of Member compliance obligations (e.g. PRC-006, PRC-027) in either the native FRCC format required or through specialized software (e.g. CAPE) that directly tie into FRCC's role within various Coordinated Functional Registration service areas. Leads all licensure related coordination efforts to ensure FMPA's software licenses, including license sharing with Members is up to date and price-competitive.

Knowledge, Skills and Abilities

Thorough knowledge of power and electric transmission industry, organization, and department policies, practices, and procedures; thorough knowledge of power and electric transmission industry, organization, and departmental legal guides, recommendations, best practices, ordinances, and laws including NERC Reliability Standards; thorough knowledge of power transmission standards and department specific equipment; ability to make complex arithmetic computations; ability to compute engineering statistical calculations; ability to establish and maintain effective working relationships with associates and the general public.

Education and Experience

Bachelor's degree in electrical engineering, or related field and considerable experience in electric power utilities industry including transmission planning, and working with government regulatory agencies, or equivalent combination of education and experience. A minimum 7 years of experience with 10 years preferred in electric power utilities industry.

Physical Requirements

This work requires the occasional exertion of up to 10 pounds of force; work regularly requires sitting and using hands to finger, handle or feel and occasionally requires speaking or hearing; work has standard vision requirements; vocal communication is required for expressing or exchanging ideas by means of the spoken word; hearing is required to perceive information at normal spoken word levels and to receive detailed information through oral communications and/or to make fine distinctions in sound; work requires preparing and analyzing written or computer data, using of measuring devices, operating motor vehicles or equipment and observing general surroundings and activities; work is generally in a quiet location (e.g. library, private offices).

Special Requirements

Valid driver's license.

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Florida Municipal Power Agency

Transmission Planning Engineer

Div/Dept: *Power Resources / Engineering Services*

FLSA Status: *Exempt*

General Definition of Work

Performs difficult technical work conducting a broad range of transmission system load flow, short circuit, transient stability, system reliability, and interconnection studies and evaluations for member requirements. Collects, manages, calculates and provides modeling data representing agency assets and member assets as required for Agency's Planning Coordinator function, and related work as apparent or assigned. Work is performed under the supervision of the Transmission Planning Supervisor.

Qualification Requirements

To perform this job successfully, an individual must be able to perform each essential function satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Essential Functions

Performs studies, prepares reports and interfaces with consultants as required for annual 10-year Long Term Transmission Planning Studies for the North American Electric Reliability Corporation (NERC) compliance, including bulk electric system and non-bulk electric system facilities 69 kV and up.

Develops, maintains and calculates members' transmission network modeling data for load flow, dynamics, short circuit studies and maintains member and regional transmission maps.

Conducts special transmission planning assessments and studies for the Agency and its members as needed, including interconnection studies for new generation and evaluations of system reconfigurations and large customer interconnections.

Represents the Agency and member cities by participating in the joint Florida Reliability Coordinating Council (FRCC) transmission and interconnection studies and serves on FRCC subcommittees.

Prepares annual Federal Energy Regulatory Commission (FERC) Form-715 filing; prepares Network Transmission Service Annual updates with Transmission Providers (FPL and DEF).

Performs operations next-day planning studies for FMPA members registered as Transmission Operators, evaluates transmission outage requests and participates in FRCC seasonal operations planning studies and coordination groups, collaborating with cohort operations planners at other regional utilities.

Ensures FMPA and member assets and facilities are accurately represented in the regional Available Transfer Capability (ATC) engine. Investigates calculated ATC postings to confirm accuracy and resolves any issues identified.

Knowledge, Skills and Abilities

Thorough knowledge of related industry, organization, and department policies, practices, and procedures; thorough knowledge of related industry, organization, and departmental legal guides, recommendations, best practices, ordinances, and laws; thorough knowledge of industry standard and department specific equipment; ability to make arithmetic computations using whole numbers, fractions, and decimals; ability to compute rates, ratios, and percentages; ability to establish and maintain effective working relationships with associates and the general public.

Education and Experience

Bachelor's degree in electrical engineering, or related field and minimum of 5 years of experience in electric power utilities industry, and working with government regulatory agencies, or equivalent combination of education and experience.

Physical Requirements

This work requires the occasional exertion of up to 10 pounds of force; work regularly requires sitting and using hands to finger, handle or feel and occasionally requires speaking or hearing; work has standard vision requirements; vocal communication is required for expressing or exchanging ideas by means of the spoken word; hearing is required to perceive information at normal spoken word levels and to receive detailed information through oral communications and/or to make fine distinctions in sound; work requires preparing and analyzing written or computer data, using of measuring devices, operating motor vehicles or equipment and observing general surroundings and activities; work is generally in a quiet location (e.g. library, private offices).

Special Requirements

Valid driver's license

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