

OVERVIEW

Andrea Bucuru has over 3 years in the energy industry with a specialty in transmission planning. Her expertise includes the following areas:

- Generator interconnection studies
- System impact studies
- Total transfer capability studies
- Power flow and stability (transient/dynamic) analysis

Ms. Bucuru has participated in the preparation of computer-based models and performing power system studies on utility transmission systems and industrial/commercial electrical power systems. She has worked as Project Lead and provided mentoring and supervision to designers and junior level engineers. She has contributed to the preparation of engineering deliverables, such as reports and studies, while applying knowledge of engineering principles to prescribed techniques and procedures to complete project assignments.

PROJECT EXPERIENCE

Interconnection Services

Ms. Bucuru has performed transmission analyses for generation, load and transmission service requests for generation asset owners and developers. The analyses included power flow, transient stability, power factor, and short circuit studies to determine required upgrades to deliver the requested service. The studies included overseeing the development and validation of system models, evaluating system configuration and dispatch scenarios, and determining loading/voltage violation mitigations necessary to maintain reliability.

Transmission Planning

Ms. Bucuru has performed steady state and stability studies in compliance with NERC Transmission Planning (TPL) Reliability Standards. She has performed total transfer capability studies to determine if established paths complied with NERC MOD-029-2a standard criteria to increase consistency and reliability in the development and documentation of transfer capability calculations for short-term use performed by entities using the Rated System Path Methodology to support analysis and system operations.

PROFESSIONAL HISTORY

Prior to joining nFront Consulting, Ms. Bucuru spent three years with Power Engineers Inc. as a Transmission Planning Engineer in the Power System Consulting Services Department. During that time, she developed her professional skills and knowledge in the energy industry.

EDUCATIONAL

Ms. Bucuru has a B.S. degree in Electrical Engineering from the Arizona State University. She also has an A.S. degree and an A.A.S. degree in Engineering Technology from Glendale Community College.