



FERC 881 COMPLIANCE



FERC 881 COMPLIANCE SERVICES

Qualus can provide comprehensive solution implementation services to achieve FERC 881 compliance by the July 2025 implementation deadline. The Federal Energy Regulatory Commission (FERC) has issued Order No. 881 to improve the accuracy and transparency of electric transmission line ratings. FERC 881 requires fully compliant implementation by July 2025, including:

- Public utility transmission providers to implement Ambient-Adjusted Ratings (AAR) calculations for the transmission lines over which they provide transmission service
- Systems and procedures to electronically update their transmission line AAR ratings at least hourly, including both a real-time operations rating and a 10-day rolling forecast
- Separate transmission line limit calculations for normal and emergency conditions
- Sharing the real-time AAR ratings with their respective Regional Transmission Operators (RTOs) or Independent System Operators (ISOs)
- Publishing the 10-day forecast AAR ratings on their respective Open Access Same-Time Information System (OASIS) sites

Qualus provides all the required services for AAR compliance. This includes an overall solution architecture design for AAR, process and system change management, training, an OSI Monarch* software upgrade (if required), implementation and configuration of OSI's new OpenAAR module (if required), comprehensive Systems Integration (SI), and Quality Assurance testing to ensure enterprise FERC 881 compliance.

CAPABILITIES

COMPLIANCE ASSURANCE

- Project Management
- Process and Technical Change Management and Training
- Comprehensive Solution Testing and Quality Assurance

COMPREHENSIVE SOLUTION DESIGN

- Enterprise Solution Architecture for FERC 881 Compliance
- Ambient-Adjusted Ratings (AAR) Methodology
- Internal Process and Subsystem Changes

OPERATIONAL TECHNOLOGY (OT) IMPLEMENTATION

- AAR Ratings Data Integration
- Weather System Integration
- RTO/ISO Real-time Integration
- OASIS Integration

ADDITIONAL OSI CLIENT SERVICES

- OSI Monarch Upgrade (if required)
- OSI OpenAAR Module Installation and Configuration

*OSI's Operational Technology platform for grid management.



PROJECT EXAMPLES

AVANGRID

Qualus and WindSim Power Inc. are implementing a dynamic line/ambient adjusted rating system at AvanGrid. This project intends to validate a non-contact, advanced transmission line monitoring system on transmission lines to increase resiliency and reliability, reduce grid congestion, and provide real-time data that could aid in more renewable energy resources into the New York State electrical grid.

EXELON

Provided OT advisory and systems engineering services to ComEd. Advised on recent OMS upgrade, including cutover planning, coordination, and execution. Currently advising on EMS upgrade, integration, and implementation scope and planning, including the OpenAAR (FERC 881) approach.

AMERICAN ELECTRIC POWER

Power systems engineering support for OSI ADMS implementation project. Providing engineering expertise for designing, configuring, testing, and deploying DMS applications, including unbalanced power flow, FLISR, and VVO.

GOLDEN VALLEY ELECTRIC COOPERATIVE

Advisory and engineering services to support GVEA's OSI EMS upgrade. Supporting overall project management, system design reviews, overall test planning and execution, requirements and design of new applications, and change management support.

NREL

System and Integration Training and Support for the NREL ADMS testbed implementation to support SDG&E and Southern Company (Georgia Power Model) to support ADMS DER management through integrations of GridAPPS-D, ICCP, and IEC CIM standards that support SCADA, VVO, Power Flow, DER Management, and FLISR ADMS functionality.

EVERSOURCE

OMS ICCP SCADA Integration Upgrade for the Oracle NMS ICCP SCADA Integration architecture, design, and implementation of the Oracle NMS ICCP SCADA integration with the Eversource GE D-SCADA integration. The integration supported real-time status changes for field communication devices modeled in both instances of the Eversource OMS system.

DUKE

DOMS Upgrade for the application and integration architecture, functional and technical design, build, and deployment of the Duke Energy OMS system and integrations (CIS, IVR, AVL, AMI, DMS, MWMS, Outage Notification, and Outage Map, and WMS systems).