



Dispatch Interactive Map Application

Improving Situational Awareness for Transmission Owners

Problem / Opportunity Statement

Providing tools to grid operators that improve their situational awareness will help them better understand real-time issues, leading to better decision making. To maintain situational awareness, an operator needs to understand the status of grid equipment. The Dispatch Interactive Map Application (DIMA), provides the operator with geospatial situational awareness. For example, an operator could see the location a contingency, and quickly identify geospatial relative equipment that could reduce or eliminate the impact of that contingency. DIMA will also provide the operator the ability to understand other side influences on the grid such as weather real time weather conditions. DIMA will provide the operator with the following features:

- Geospatial location of 69 kV through 765 and HVDC kV transmission lines located in PJM
- Geospatial location of transmission lines in neighboring Balancing Authority areas where data is available
- Status of transmission lines in PJM, including eDART outage status
- Geospatial location of substations and equipment
- Transmission MW Flow
- Transmission MVA Flow
- Contingencies: SA Low kV and SA Thermals
- Reactive Status (Capacitors, Reactors, LTC's): Online / Offline
- Reactive Status (Capacitors, Reactors, LTC's): eDART Offline/Available, Offline/Unavailable
- Generation Status: Online/Offline
- Generation Status: eDART Offline/Available, Offline/Unavailable
- Generation Fuel Type
- Weather Overlay
- Natural Gas Overlay with locations of Interstate Pipelines
- System Restoration Features: Critical Load and Blackstart

PJM is putting forward this Problem / Opportunity Statement, and accompanying Issue Charge, so that it can work with stakeholders to consider the implementation of DIMA for Transmission Owners to ultimately improve operator situational awareness.