ITCI Planning Assumptions

John M. Kopinski
Principal Engineer, Regional Planning

12/5/2018

ITC INTERCONNECTION (ITCI)

ITC Facilities in PJM

ITC owns and operates PJM network transmission facilities in southwest Michigan:

- 345kV Substation
- 345kV Transmission Line

PJM integration activities completed on June 1, 2016

Also Connects to ITC Owned METC Facilities in MISO

Zero Revenue Requirement Assets (No Regulated Rate)

ITCI Planning Criteria (PJM)

- **ITCI Uses the Same Planning Criteria as the Michigan MISO Assets (ITCT & METC)**
- **ITCI Planning Criteria Augments PJM Planning Criteria**

- **Some ITCI Criteria Differences From PJM Criteria Include:**

P1 Contingencies That Include a Prior Shutdown Considered for Shoulder Peak (85% peak load)	Max/Min Voltages 0.97/1.07 pu for P0 and 0.92/1.07 pu for P1-P7	P2.2 Bus Section Fault Considered to be a 3-Phase Fault to Ground
P4 Contingencies Considered to be a 2-Phase Fault to Ground	Some Additional Restrictions on Consequential Load Loss	End of Life Criteria

ITCI Planning Criteria – 2018 Changes

- **Revised the voltage deviation criteria to 8% (was 5%) after common mode single initiating event.**
- **Minor administrative changes to correct terminology (e.g. RAS) and add references**

ITCI – Project Identification

- **Annual Michigan planning assessment conducted to identify any system issues and corresponding projects**
- **Asset management programs to identify and replace equipment that is obsolete, failed, or at an end-of-life condition**

ITCI Planning Criteria (PJM)

- **ITCI Planning Criteria Is Posted on PJM's Webpage:**

http://www.pjm.com/~/media/planning/planning-criteria/itc-holdings-planning-criteria.ashx

- **ITCI Facility Connection Requirements Is Posted on PJM's Webpage:**

http://www.pjm.com/-/media/planning/plan-standards/itci/itc-holdings-facility-connection-requirements.ashx?la=en

ITC®