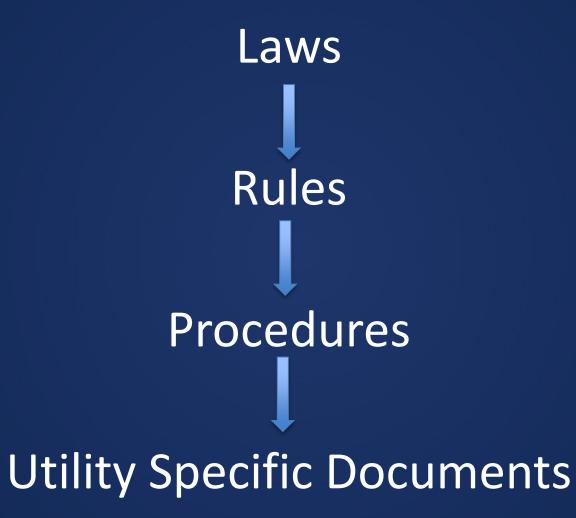
Hierarchy of Interconnection Documents







Laws	<u>Act 3 of 1939, as amended</u> 460.10e (3)
	The commission shall establish standards for the interconnection of merchant plants with the transmission and distribution systems of electric utilities.
Rules	
	<u>Act 295 of 2008, as amended</u>
	460.1173 (1) Distributed generation program.
Procedures	The commission shall establish a distributed generation program by order issued not later than 90 days after the effective date of the 2016 act that amended this section. The commission may promulgate rules the commission considers necessary to implement this program. Any rules adopted regarding time limits for approval of parallel operation shall recognize reliability and
Utility Documents	safety complications including those arising from equipment saturation, use of multiple technologies, and proximity to synchronous motor loads.
	Public Utility Regulatory Policies Act of 1978 (PURPA)

Public Utility Regulatory Policies Act of 1978 (PURPA)

Rules



Laws Rules Procedures Utility Documents

- Rules may also be referred to as "standards."
- Generally, requirements that are applicable to all utilities must go through the rulemaking process.
- Incorporating a stakeholder process to develop a draft ruleset and formal rulemaking can take 24 months.
- Rules may include a waiver process however, any waiver must not violate the law.
- Current MPSC Electric Interconnection and Net Metering Standards

Rules (continued)



Current MPSC Electric Interconnection and Net \bullet Laws Metering Standards Definitions ____ Adoptions of Standards by Reference **Prohibited Practices** Rules Designated Points of Contact Alternative Dispute Resolution Appointment of Experts Waivers **Electric Utility Interconnection Procedures Procedures** Interconnection Fees **Application and Interconnection Process** Modifications to Project Insurance Utility Disconnection Documents Easements and Rights-of-Way (Net Metering section headings not included.)

Procedures



Laws

Rules

Procedures

Utility Documents

- The Generator Interconnection Procedures, Applications and Interconnection Agreements for Category 1 and 2 Projects (up to 150 kW) were approved by Commission Order.
- Created by a utility to comply with the rules.

MICHIGAN ELECTRIC UTILITY

Generator Interconnection Procedures

Category 1 Inverter Based Projects with Aggregate Generator Output 20 kW or Less certified for anti-islanding in compliance with IEEE 1547 standards et seq

December 2012

Procedures (continued)



Laws

Rules

Procedures

Utility Documents

- Current Category 1 Projects Generator Interconnection Procedures (up to 20 kW, certified, inverter-based)
 - Interconnection Process
 - Operational Provisions
 - Technical Requirements
 - Relaying Design Requirements
 - Requirements for Inverter Projects
 - Maintenance and Testing
 - Miscellaneous Operational Requirements
 - Revenue Metering Requirements
 - Appendices

Procedures (continued)



Laws

Rules

Procedures

Utility Documents

- Standard Interconnection Applications and Interconnection Agreements for Category 1 & 2 projects were approved with the Procedures.
- Rules may direct utilities to include specific information in Procedures.

Utility Documents



Laws

Rules

Procedures

Utility Documents

- Not reviewed or approved by the Commission.
- Utility specific information
 - Example: DTE's Service Equipment
 Manual

SERVICE EQUIPMENT	INDEX		
	APR 2014		
SECTION 5			
METER & SERVICE EOUIPMENT			
General Rules and Regulations			
Equipment Assembly and Installation			
Indoor Metering, Grounding, and Bonding			
Meter Enclosure Connections			
A-base and B-base Meter Enclosure – Customer Installation			
Bonding and Ground Circuits	5-1-7 and 5-1-8		
Repair and Refastening of Equipment			