Document title:	Document number:
Midwest Transmission – Self Build Approved Major Equipment Contractors	ADMP-ADM-TRM-00142
	Revision No.: 000
Keywords: Transmission; FERC 845; Production Standard; self-build; Midwest; Major Equipment; Vendor	Applies to: Transmission – DEM

Table of Contents

1. Purpose/Objective

The purpose of this document is to identify approved List of Approved Contractors (also known as vendors) that interconnection customers shall utilize to purchase major equipment for a facility that Duke Energy Midwest (Ohio, Kentucky, Indiana) will own and operate in the future.

2. Scope

On April 19, 2018, the Federal Energy Regulatory Commission (FERC) issued its final rule of Order 845, addressing reform of generator interconnection procedures and agreements for generators of more than 20 megawatts (MW). To interconnect generation projects to the grid, interconnection customers and transmission providers must coordinate the construction and ownership of new transmission line facilities, a substation at the point where the generation will interconnect with the grid, and, if necessary, any additional upgrades to the transmission providers transmission system required to handle the increased generation capacity.

In addition, order No. 845 allows interconnection customers the option to build transmission provider's interconnection facilities, which will then be owned and maintained by the transmission provider.

3. Definitions

List of Approved Contractors - shall mean a list developed by each Transmission Owner and published in a PJM Manual of (a) contractors that the Transmission Owner considers to be qualified to install or construct new facilities and/or upgrades or modifications to existing facilities on the Transmission Owner's system, provided that such contractors may include, but need not be limited to, contractors that, in addition to providing construction services, also provide design and/or other construction-related services, and (b) manufacturers or vendors of major transmission-related equipment (e.g., high-voltage transformers, transmission line, circuit breakers) whose products the Transmission Owner considers acceptable for installation and use on its system.

Interconnection Customer – A person or entity that interconnects a distributed generation facility to an electric distribution system.

Transmission Provider – Any public utility that owns, operates, or controls facilities used for the trans-mission of electric energy in interstate commerce. (i.e., Duke Energy)

4. Approved Major Equipment Contractors

Below is a list of approved major equipment contractors that the interconnect customer shall utilize for projects in the Duke Energy Ohio, Kentucky, and Indiana service territory.

4.1. Circuit Breakers

- For 69KV (Gang): Siemens (preferred), Meiden America, Mitsubishi, GE
- For 138KV (Gang): Siemens(preferred), Mitsubishi, GE
- For 230KV (Gang): Mitsubishi (preferred), Siemens, GE
- For 345KV (IPO): Mitsubishi (preferred), Siemens, GE

4.2. Instrument Transformers

- Current Transformers (CT):
- 69 – 345KV: Trench Group

    - 345KV: Pfiffner
- Coupling Capacitor Voltage Transformer (CCVT): Trench Group
- Station Service Voltage Transformer (SSVT):
    - 69 - 345KV: ABB
    - 345KV: Koncar

4.3. Wave Traps and Line Tuners

- Trench Group

4.4. Lightning Arresters

- Cooper Power Systems

4.5. Disconnect Switches

- Pascor Atlantic
- For Fused Disconnect Switch and Fuse: S&C Electric Company

4.6. Wire and Cable

- AFL (19#9 Copperweld, OPGW)
- Anixter (1590 KCMIL)
- General Cable (Control/Instrument)
- Southwire (4/0, 556, 954, 1590, 2500 KCMIL)

4.7. Control Enclosures

- Electrical Power Products
- Systems Control
- VFP

4.8. Cable Trench

- Concast, Inc.
- Trenwa, Inc.

4.9. Polysided Tubular Steel (Substation Dead-End) Structures

- DisTran
- Valmont Industries, Inc.

4.10. Standard Shape Steel (Substation General) Structures

- Superior Steel Services LLC (Batavia, OH)
- ASC, Advanced Steel Inc (Tulsa, OK)

4.11. Transmission Steel Structures

- DisTran

- Meyer Utility Structures
- Valmont Industries, Inc.