

Transmission Engineering Services

Approved Contractors and Major-Equipment Vendors

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Original Document


Description: Provides a list of currently approved contractors and major-equipment vendors for use on AEP Transmission projects.

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Document Control

Approval

Approved By:	Title	Signature	Date
Evan Wilcox	Director, Transmission Engineering Services		10/15/2019

Implementation

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0	Original Issue	Evan Wilcox	10/15/2019

Audience

The audience for this document is Interconnection Customers that have elected to exercise the Option to Build provision within the PJM Open Access Transmission Tariff (OATT).

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1.0 Purpose

This document provides a list of AEP Transmission’s currently approved contractors and major-equipment vendors that provide materials and services in accordance with current AEP agreements, standards, specifications, and/or guidelines.

2.0 Requirements for Transmission-Connected Facilities to be Owned and Operated by AEP

Interconnection Customers and their contractors, employees, and agents shall comply with the AEP’s safety, security, and work rules; environmental guidelines; and training requirements applicable to the area(s) where construction activity is occurring and shall provide all reasonably required documentation. AEP shall have final approval of all materials and services provided to AEP. For additional information, Interconnection Customers should contact the appropriate manager(s) within the AEP Transmission organization.

Approved vendors are subject to change. Additional AEP equipment specifications will apply based on the nature and location of the project. Please consult AEP for any updates prior to material procurement. Detailed standards, specifications, warranty terms, and related terms and conditions are available upon request subject to appropriate agreements.

Upon request of an Interconnection Customer, AEP will evaluate candidate contractors not listed below.

3.0 Approved Option to Build Contractors

3.1 Station and Transmission Line Engineering and Design Contractors

Contractor Name
Beta Engineering, LLC
Black and Veatch Corp.
Burns and McDonnell Engineering Company, Inc.
Commonwealth Associates, Inc.
Dashiell Corporation
DiGioia Gray
Electrical Consultants, Inc.
HDR Engineering, Inc.
Kiewit Engineering Group, Inc.
Mesa Associates, Inc.
MYR Transmission Services, Inc. (MYR)
Power Engineers, Inc.
RCM Technologies (USA), Inc.

Contractor Name
Sargent and Lundy, LLC
TRC Engineers, Inc.
Worley Group, Inc.

3.2 Substation Construction Contractors

Contractor Name
Bruce & Merrilees
Energy Erectors, Inc.
Great Southwestern Construction, Inc. (MYR)
Henkels & McCoy, Inc.
Irby Construction Company (Q)
The L. E. Myers Company (MYR)
Michels Corporation
MJ Electric, LLC (Q)
New River Electrical Corp.
Newkirk Electric Associates, Inc.
North Houston Pole Line, L.P. (Q)
PAR Electrical Contractors, Inc. (Q)
RES System 3, LLC
Service Electric Company (Q)
Thompson Electric, Inc.
Vaughn Industries, LLC

3.3 Transmission Line Construction Contractors

Contractor Name
Great Southwestern Construction, Inc. (MYR)
Henkels & McCoy, Inc.
Irby Construction Company (Q)
Michels Corporation
MJ Electric, LLC (Q)
New River Electrical Corp.
North Houston Pole Line, L.P. (Q)



Contractor Name
PAR Electrical Contractors, Inc.
RES System 3, LLC
Service Electric Company (Q)

3.4 Grading/Site Prep/Access Road Contractors

Contractor Name
BC Excavating, Ltd.
The Beaver Excavating Company
Cecil Goodwin, Inc. d/b/a Good-One Excavating
Cobalt Civil LLC
General Contracting
Independence Excavating, Inc.
Kokosing Industrial, Inc.
Kwest Group, LLC
Liberty Management, LLC
Newpark Mats & Integrated Services
The Great Lakes Construction Company
Zemba Brothers

4.0 Approved Vendors for Major Equipment

4.1 Substation Equipment

4.1.1 Switches

4.1.1.1 Center Break: 15kV–230kV

Vendor	Approved Factor Location(s)
Pascor Atlantic Corporation	Bland, VA
Royal Switchgear Manufacturing Company Inc.	Bessemer, AL
Hubbell Power Systems, Inc.	Leeds, AL

4.1.1.2 Center Break: 345kV

Vendor	Approved Factor Location(s)
Pascor Atlantic Corporation	Bland, VA
Southern States LLC	Hampton, GA

4.1.1.3 Double-End Break: 230kV–500kV

Vendor	Approved Factory Location(s)
Alstom Grid LLC	Noventa di Piave, Italy
Pascor Atlantic Corporation	Bland, VA
Royal Switchgear Manufacturing Company Inc.	Bessemer, AL
Southern States LLC	Hampton, GA

4.1.1.4 Mega-Switch (Phase-to-Phase Clearance): 138kV–765kV

Vendor	Approved Factory Location(s)
Alstom Grid LLC	Noventa di Piave, Italy

4.1.1.5 Semi-Pantograph: 345kV–765kV

Vendor	Approved Factory Location(s)
Alstom Grid LLC	Noventa di Piave, Italy

4.1.1.6 Vertical Break: 69kV–161kV

Vendor	Approved Factory Location(s)
Pascor Atlantic Corporation	Bland, VA
Royal Switchgear Manufacturing Company Inc.	Bessemer, AL
Southern States LLC	Hampton, GA
Hubbell Power Systems, Inc.	Leeds, AL

4.1.1.7 Vertical Break: 765kV

Vendor	Approved Factory Location(s)
Alstom Grid LLC	Noventa di Piave, Italy
Pascor Atlantic Corporation	Bland, VA

4.1.2 Arresters

Vendor	Approved Factory Location(s)	Comment
ABB, Inc.	Mt. Pleasant, PA Ludvika, Sweden	All kV
Coopr Power Systems, LLC	Olean, NY	4kV–230kV
Siemens Industry, Inc.	Berlin, Germany	All kV

4.1.3 Capacitor Banks

Vendor	Approved Factory Location(s)
Coopr Power Systems, LLC	Greenwood, SC
GE Grid Solutions, LLC	Bland, VA

4.1.4 CCVTs

Vendor	Approved Factory Location(s)
Alstom Grid, LLC	Waynesboro, GA
Trench Limited	Pickering, ON, Canada
Pfiffner Instrument Transformers, LTD	Hirschthal, Switzerland

4.1.5 Circuit Breakers

4.1.5.1 Circuit Breakers: 69kV, 40kA

Vendor	Approved Factory Location(s)
Alstom Grid, LLC	Charleroi, PA
Siemens Industry, Inc.	Jackson, MS
Mitsubishi Electric Power Products, Inc.	Warrendale, PA

4.1.5.2 Circuit Breakers: 138kV, kA All

Vendor	Approved Factory Location(s)
Siemens Industry, Inc.	Jackson, MS
Alstom Grid LLC	Charleroi, PA
Mitsubishi Electric Power Products, Inc.	Warrendale, PA
ABB Inc.	Mount Pleasant, PA

4.1.5.3 Circuit Breakers: 170kV, kA All

Vendor	Approved Factory Location(s)
Siemens Industry, Inc.	Jackson, MS
Alstom Grid LLC	Charleroi, PA
Mitsubishi Electric Power Products, Inc.	Warrendale, PA
ABB Inc.	Mount Pleasant, PA

4.1.5.4 Circuit Breakers: 230kV 50kA

Vendor	Approved Factory Location(s)
Siemens Industry, Inc.	Jackson, MS
Alstom Grid LLC	Charleroi, PA

4.1.5.5 Circuit Breakers: 230kV 80kA

Vendor	Approved Factory Location(s)
Siemens Industry, Inc.	Jackson, MS
Mitsubishi Electric Power Products, Inc.	Warrendale, PA

4.1.5.6 Circuit Breakers: 345kV 50/63kA

Vendor	Approved Factory Location(s)
Alstom Grid LLC	Charleroi, PA
Siemens Industry, Inc.	Jackson, MS
Mitsubishi Electric Power Products, Inc.	Warrendale, PA

4.1.5.7 Circuit Breakers: 500kV

Vendor	Approved Factory Location(s)
Mitsubishi Electric Power Products, Inc.	Warrendale, PA
Alstom Grid LLC	Charleroi, PA
Siemens Industry, Inc.	Jackson, MS

4.1.5.8 Circuit Breakers: 765kV

Vendor	Approved Factory Location(s)
HICO America Sales and Technology Inc.	Changwon, South Korea
Hitachi T&D Solutions, Inc.	Suwanee, GA Hitachi City, Japan
Mitsubishi Electric Power Products, Inc.	Warrendale, PA Itami, Japan

4.1.5.9 Circuit Breakers: 765kV Reactor

Vendor	Approved Factory Location(s)
Alstom Grid LLC	Charleroi, PA

4.1.6 Circuit Switches

4.1.6.1 Capacitor Switching

Vendor	Approved Factory Location(s)	Comment
Hitachi T&D Solutions, Inc.	Suwanee, GA	145kV
Southern States LLC	Hampton, GA	161kV
Alstom Grid LLC	Charleroi, PA	345kV

4.1.6.2 Transformer Switching: 69kV–138kV

Vendor	Approved Factory Location(s)
Alstom Grid LLC	Charleroi, PA

4.1.7 GIS (Gas-Insulated Switchgear)

Vendor	Approved Factory Location(s)
ABB Inc.	Not specific
Mitsubishi Electric Power Products, Inc.	Not specific

4.1.8 Line Traps

Vendor	Approved Factory Location(s)
GE Grid Solutions LLC	Itajuba, MG, Brazil
Trench Limited	Scarborough, ON, Canada

4.1.9 Instrument Transformers

Vendor	Approved Factory Location(s)
ABB Inc.	Crystal Springs, MS
GE Grid Solutions LLC	Waynesboro, GA

4.1.10 Power Transformers

4.1.10.1 Small: 69kV and Below Primary Voltage

Vendor	Approved Factory Location(s)
ABB Inc.	Crystal Springs, MS
Delta-Star Inc.	Lynchburg, VA San Carlos, CA
GE Prolec Transformers Inc.	Monterrey, Mexico
Niagara Transformer Corp.	Buffalo, NY
SPX Transformer Solutions, Inc.	Goldsboro, NC

4.1.10.2 Medium: 138kV Primary Voltage, 50MVA and Below

Vendor	Approved Factory Location(s)
ABB Inc.	Crystal Springs, MS South Boston, VA
Delta-Star Inc.	Lynchburg, VA San Carlos, CA
GE Prolec Transformers Inc.	Monterrey, Mexico
SPX Transformer Solutions, Inc.	Goldsboro, NC Waukesha, WI

4.1.10.3 Auto Transformers: 138kV–161kV Primary Voltage, 51MVA and Above

Vendor	Approved Factory Location(s)
ABB Inc.	South Boston, VA
GE Prolec Transformers Inc.	Monterrey, Mexico
HICO American Sales & Technology Inc.	Changwon, South Korea
Hyundai	Montgomery, AL
SPX Transformer Solutions Inc.	Waukesha, WI

4.1.10.4 Auto Transformers: 230kV–345kV Primary Voltage

Vendor	Approved Factory Location(s)
HICO American Sales & Technology Inc.	Changwon, South Korea
SMIT	Nijmegen, Netherlands
GE-Prolec	Monterrey, Mexico

4.1.10.5 Auto Transformers: 500kV–765kV Primary Voltage

Vendor	Approved Factory Location(s)
ABB	Ludvika, Sweden Cordoba, Spain
HICO	Changwon, South Korea
MEPPI	Ako, Japan
Siemens Industry, Inc.	Weiz, Austria
SMIT	Nijmegen, Netherlands

4.1.11 Reactors

4.1.11.1 Oil-Filled Reactors: 230kV–345kV

Vendor	Approved Factory Location(s)
Siemens Industry, Inc.	Weiz, Austria
HICO	Changwon, South Korea
ABB	Ludvika, Sweden

4.1.11.2 Oil-Filled Reactors: 500kV–765kV

Vendor	Approved Factory Location(s)
ABB	Ludvika, Sweden
HICO	Changwon, South Korea
Siemens Industry, Inc.	Weiz, Austria

4.2 Protection and Control Equipment

4.2.1 Relay Panels

Vendor	Approved Factory Location(s)
Schweitzer Engineering Laboratories, Inc.	San Luis Potosi, Mexico
Systems Control, a Division of Northern Star Industries, Inc.	Iron Mountain, MI
AZZ Enclosure Systems LLC	Millington, MD
Crown Technical Systems	Fontana, CA

4.3 Other Substation Equipment

4.3.1 Control Buildings

Vendor	Approved Factory Location(s)
Schweitzer Engineering Laboratories, Inc.	Salem, VA (VFP)
Systems Control, a Division of Northern Star Industries, Inc.	Iron Mountain, MI
AZZ Enclosure Systems LLC	Millington, MD
Crown Technical Systems	Fontana, CA

4.3.2 Insulators

4.3.2.1 Polymer: 4kV–161kV

Vendor	Approved Factory Location(s)
Lapp Insulator	Le Roy, NY
Maclean Power Systems	Not specific
NGK-Locke Insulator	Baltimore, MD

4.3.2.2 Porcelain: 4kV–161kV

Vendor	Approved Factory Location(s)
Hubbell	Suzhou, China
Lapp Insulator	Le Roy, NY
SEVES PPC	Pedreira, Brazil
Gamma	Sabaneta, Colombia
Cerisol	Vila Nova de Gaia, Portugal

4.3.2.3 Porcelain: 230kV–765kV

Vendor	Approved Factory Location(s)
SEVES PPC	Nové Sady, Slovakia

4.4 Transmission Line Equipment

4.4.1 Conductor: Bare Aluminum

Vendor	Approved Factory Location(s)
General Cable	Williamsport, PA
Nehring	Dekalb, IL
Southwire	Carrollton, GA Hawesville, KY

4.4.2 Conductor Hardware

4.4.2.1 Bolted Clamp

Vendor	Approved Factory Location(s)
Hubbell Power Systems	Leeds, AL
Lindsey	Azusa, CA
Maclean Power Systems	Pelham, AL
Salvi	Milan, Italy

4.4.2.2 Compression

Vendor	Approved Factory Location(s)
AFL Global	Duncan, SC
Burndy	Manchester, NH
DMC Power	Gardenia, CA
Hubbell Power Systems	Leeds, AL

4.4.2.3 Spacer and Armor Rod

Vendor	Approved Factory Location(s)
AFL Global	Duncan, SC
Hubbell Power Systems	Leeds, AL
MacLean Power Systems	Pelham, AL
Preformed Line Products	Rogers, AR

4.4.3 Ground Wire

Vendor	Approved Factory Location(s)
AFL	Duncan, SC
General Cable	Malvern, AR
Southwire	Carrolton, GA

4.4.4 Insulators

4.4.4.1 Polymer

Vendor	Approved Factory Location(s)
Hubbell Power Systems	Aiken, SC
Lapp	LeRoy, NY
Macleam Power Systems	York, SC
NGK-Locke	Virginia Beach, VA

4.4.4.2 Porcelain Disc

Vendor	Approved Factory Location(s)
Lapp	Dalian, China

4.4.4.3 Toughened Glass

Vendor	Approved Factory Location(s)
Hubbell	Segovia, Spain
SEVES Sediver	Shanghai, China
SiChuan Yibin Global Group Co., LTD.	Chendgu City, Sichuan Province, China

4.4.5 Structures

4.4.5.1 Latticed Steel

Vendor	Approved Factory Location(s)
Brametal	Linhares, ES, Brazil
Falcon Steel	Kaufman, TX
Locweld	Candiac, QC, Canada
MITAS	Ankara, Turkey
SAE	Monterrey, Mexico

4.4.5.2 Tubular Steel

Vendor	Approved Factory Location(s)
Sabre/FWT	Alvarado, TX Fort Worth, TX Hicksville, OH Sioux City, IA
Valmont Industries	Columbus, NE Jasper, TN Monterrey, Mexico Tulsa, OK Valley, NE
TAPP	Guadalajara, Mexico

4.4.5.3 Wood Poles

Vendor	Approved Factory Location(s)
McFarland Cascade	Not specific