

Transmission System Operations

AEP Transmission Operator Data Specification

Effective Date: 10/1/2026

Supersedes AEP Transmission Operator Data Specification Rev. 6.0. Effective Date 6/4/2026

Description: The data and terms described in this document serve as a comprehensive listing of the information required by the AEP TOP as stipulated by NERC Standard TOP-003.

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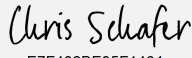
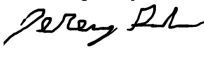
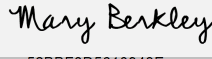
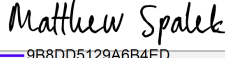
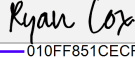
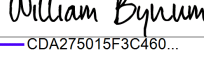
Subject Matter Expert: Dennis Sauriol	© 2016, 2018, 2021, 2023, 2025 – 2026 American Electric Power Company, Inc.	Rev. 6.1	EDOPS.01.999.30_SPEC
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Document Control

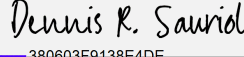
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Implementation

Effective Date	10/1/2026
Review Frequency	As Needed
Retention Period	10 Years
Transmission Audience	Real-time Operations

Revision History

Rev.	Description of Change(s)	By	Date
6.1	Changed Standard version number from 6.1 to 7 Updated template	Technical Writer: Marcia Roberts Real-time Operations	10/1/2026
6	Updated section 7.0 to provide clarity surrounding the role and responsibilities of the entities acting as ICCP providers.	Real-time Operations	6/4/2026
5.0	As of 3/20/2025, Energy Delivery is now Transmission System Operations (TSO). Real-time Operations is a group under TSO and encompasses Real-time Response and Real-time Reliability. Energy Delivery Support is now Transmission System Operations Support (TSOS). Added definition for ICCP provider. Updated document to include section 6.0 performance criteria. Updated all tables in document to include performance criteria thresholds.	Real-time Operations	7/1/2025
4.0	Added new section 6.4 Generating Unit(s) Requirements (Cold Weather) and subsections 6.4.1 – 6.4.4.	EDOps	3/24/2023

For extended revision history, see [Appendix A](#): Extended Revision History.

Compliance Information

Compliance Documentation Required by a NERC Standard	
Required Per Standard	NERC Mandated Review Date
TOP-003	No NERC-required date for document; annual review schedule only

Name or Dept	Title	Entity	Submittal Information	Required Submittal Date	Comments
Anna Finley	Transmission Compliance & Process	All entities providing AEP data required by this document.	TOP-003 standard requires AEP to distribute this document to all entities providing AEP data required by this document.	Distribution of this document after each update to all entities providing AEP data required by this document.	This document will also be posted externally.

Table of Contents

Document Control	2
Subject Matter Experts	2
Review	2
Approval	2
Implementation	3
Revision History	3
Compliance Information	4
Table of Contents	5
1.0 Purpose and Scope	6
2.0 References	6
3.0 Terms and Definitions	7
4.0 Process for Resolving Data Conflicts	8
5.0 Performance Criteria	9
6.0 Data Specification	10
6.1 Real-time Data	10
6.2 Operational Planning Data	15
6.3 System Modeling and Parameters	19
6.4 Generating Unit(s) Requirements (Cold Weather)	22
6.4.1 PJM	22
6.4.2 Southwest Power Pool (SPP)	23
6.4.3 Electric Reliability Council of Texas (ERCOT)	24
6.4.4 Midcontinent Independent System Operator (MISO)	25
7.0 Appendix A: Extended Revision History	26

1.0 Purpose and Scope

The data and terms described in this document serve as a comprehensive listing of the information required by the AEP Transmission Operator (TOP) as stipulated by NERC Standard TOP-003. All Real-time data is exchanged via Inter-control Center Communications Protocol (ICCP) unless specified otherwise. Operational planning data and system modeling and parameter data is exchanged through various agreed upon formats such as email, web-based applications, and/or secure electronic data exchange sites. This document identifies each data item and specifies its current or expected method of exchange.

This data specification is distributed according to NERC Reliability Standard TOP-003 R3 to entities that have the data and information deemed necessary by AEP Transmission.

Data specifications needed for the AEP TOP to perform Real-time Monitoring (RTM), Real-time Assessments (RTA), and Operational Planning Analysis (OPA) must be identified. Exceptions to these AEP TOP requirements exist where a functional agreement, such as ERCOT's Coordinated Functional Registration (CFR), releases AEP from TOP obligations to perform OPAs and RTAs.

2.0 References

Document ID	Document Title
Internal	
TOPS.01.013.00_PRO	Outage Coordination Procedure
TOPS.01.015.00_GUI	Real-time Data Integrity Guideline
TOPS.01.014.00_PRO	EMS Solution Quality Procedure
EDOPS.01.095.00_PRO	Failure or Disabling of Protection Systems Procedure
External	
	ERCOT's Coordinated Functional Registration (CFR): Mapping-Documents-Related-to-NERC-Reliability-Standards-IRO-010-and-TOP-003_V17
	MISO Reliability Data Specification, Version No. 16
	NERC Reliability Standards: TOP-003-7 – Transmission Operator and Balancing Authority Data and Information Specification and Collection

Document ID	Document Title
	PJM Manuals: - PJM Manual 01: Control Center and Data Exchange Requirements - PJM Manual 03: Transmission Operations
	Required Data Specification for the SPP Reliability Coordinator & the SPP Balancing Authority (BA) in the Eastern Interconnection (RDSEI) on the SPP Documents & Filings page.

3.0 Terms and Definitions

Defined Terms

Term	Description
ICCP Provider	Applicable Functional Entities and neighboring utilities that provide necessary external data via ICCP to AEP for OPA/RTA/RTM purposes. This specifically includes the TOP, TO, BA, GP, GOP, and DP registrations in the PJM, MISO, TVA, Duke, SPP, and ERCOT regions.
Data Provider	Applicable to the NERC Functional Entity
Internal	Directly connected to an AEP-T facility

Acronyms

Acronym	Description
AEP-G	AEP Generation
AEP-T	AEP Transmission
BA	Balancing Authority
BES	Bulk Electric System
CFR	Coordinated Functional Registration
DP	Distribution Planning
ERCOT	Electric Reliability Council of Texas
External	Not directly connected to an AEP-T facility

Acronym	Description
GOP	Generation Operator
ICCP	Inter-control Center Communications Protocol
Internal	Directly connected to an AEP-T facility
MISO	Midcontinent Independent System Operator
OPA	Operational Planning Analysis
PJM	PJM, LLC
RC	Reliability Coordinator
RTA	Real-time Assessment
RTM	Real-time Monitoring
RTU	Remote Terminal Unit
SPP	Southwest Power Pool
TO	Transmission Owner
TOP	Transmission Operator
TVA	Tennessee Valley Authority

4.0 Process for Resolving Data Conflicts

If the Responsible Entity cannot meet one or more of the data specifications, then the Responsible Entity submits its exceptions and proposed solutions to AEP Transmission (AEP-T) via email to AEP_Operational_Reliability_Data@aep.com.

AEP staff and the Responsible Entity coordinate to reach a mutually agreeable alternative or temporary solution. If AEP-T identifies information not being provided per the data specifications, AEP-T contacts the Responsible Entity to reach a mutually agreeable alternative or temporary solution. If the Responsible Entity is supplying data per the specifications and has otherwise not been contacted by AEP-T regarding data discrepancies, the Responsible Entity shall assume compliance with the AEP-T data specifications.

5.0 Performance Criteria

AEP's methodology for performance criteria aims to address both availability and accuracy of each data item required by [TOP-003-7](#). While AEP acts in Real-time on missing or stale data items as required, it is important to note AEP does not measure availability of all data items in Real-time.

AEP does not determine the accuracy of data items provided by data providers. Data providers are responsible for determining the accuracy of their data items. As such, this criterion is not set by AEP and will be at the discretion of the data providers and their pre-established accuracy requirements and baselines.

Refer to the following tables for applicable performance criteria. AEP does not measure performance criteria for all data items. This data specification indicates not applicable (N/A) for those items not measured in the scope of AEP's performance criteria.

Performance criteria is limited to external data provided by data providers to AEP.

AEP monitors availability where applicable and will contact the applicable entity(ies) to rectify any performance criteria of data items that fluctuate beyond the pre-established baselines. AEP recognizes 100 percent compliance at all times is not an achievable metric, but applicable data (ICCP) providers should attempt to adhere to the performance criteria established. In such cases, AEP will remediate with data (ICCP) providers as needed.

6.0 Data Specification

All data requirements applicable to AEP Transmission in its role as a Transmission Operator are made available by ERCOT, PJM, and SPP, which function as an intermediary.

AEP Transmission's data requirements as a Transmission Operator are fulfilled by the applicable entities, who also pass their data through ERCOT, PJM, SPP via ICCP. ERCOT, PJM, and SPP do not originate, validate, or assume responsibility for the accuracy of the data it relays and is solely the data intermediary via ICCP.

6.1 Real-time Data

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Switching Device Status: Real-time status for all available Bulk Electric System (BES) and necessary non-BES switching devices owned or operated by AEP-T (internal).	AEP-T		x	x	By exception	Real-time	Remote Terminal Unit (RTU)	N/A
Switching Device Status: Real-time status for all available BES and necessary non-BES switching devices not owned or operated by AEP-T (external) as deemed necessary by AEP-T.	ICCP Providers		x		By exception	Real-time	ICCP	20% or greater of total data has failed and is impacting RTA/RTM/OPA.

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Line/Transformer Flows: Real-time MW/MVAR flows on all available BES and necessary non-BES transmission lines/transformers owned or operated by AEP-T (internal).	AEP-T		x	x	10 seconds	Real-time	RTU	N/A
Line/Transformer Flows: Real-time MW/MVAR flows on all available BES and necessary non-BES transmission lines/transformers not owned or operated by AEP-T (external) as deemed necessary by AEP-T.	Distribution Planning (DP), ICCP Providers		x		30 seconds	Real-time	ICCP	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
Voltages: Real-time voltage magnitude as available for all available BES and necessary non-BES equipment owned or operated by AEP-T (internal).	AEP-T		x	x	10 seconds	Real-time	RTU	N/A

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Voltages: Real-time voltage magnitude for all available BES and necessary non-BES equipment not owned or operated by AEP-T (external) as deemed necessary by AEP-T. NOTE: *In the ERCOT region, Voltage data is used for Real-time Monitoring per Nuclear Plant Interface Requirement.	DP, ICCP Providers		x	x*	30 seconds	Real-time	ICCP	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
Loads: MW/MVAR values of Loads connected to AEP-T (internal).	AEP-T		x	x	10 seconds	Real-time	RTU	N/A
Loads: MW/MVAR values of Loads external to AEP-T as deemed necessary by AEP-T.	ICCP Providers		x		30 seconds	Real-time	ICCP	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
Unit Status: Real-time status of generation connection devices for internal units	ICCP Providers, Generation		x	x	By exception	Real-time	ICCP, RTU	20% or greater of total data has failed and is impacting RTA/RTM/OPA.

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
as deemed necessary by AEP-T.	Operator (GOP)							
Unit Status: Real-time status of generation connection devices for external units as deemed necessary by AEP-T.	ICCP Providers, GOP		x		By exception	Real-time	ICCP, RTU	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
Unit Output: Real-time generator gross or net MW/MVAR output for internal units as deemed necessary by AEP-T.	ICCP Providers, GOP		x	x	30 seconds	Real-time	ICCP, RTU	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
Unit Output: Real-time generator gross or net MW/MVAR output for external units that impact AEP-T.	ICCP Providers, GOP		x		30 seconds	Real-time	ICCP, RTU	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
Unit AVR & PSS Status: Real-time status of Unit AVR and PSS for units as deemed necessary by AEP-T.	ICCP Providers, GOP		x	x	By exception (per status change) via voice and 30 seconds for analog (upon availability)	Real-time	Voice, ICCP	20% or greater of total data has failed and is impacting RTA/RTM/OPA.

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Weather Data: Real-time weather data used for temperature adjusted limits and overall situational awareness by AEP-T.	AEP-T	x	x	x	5 minutes	Real-time	Multiple formats (applications, websites, etc.)	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
GMD Transformer DC Amps: Real-time transformer DC Amp values used for GMD monitoring as deemed necessary by AEP-T.	AEP-T			x	10 seconds	Real-time	RTU	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
Frequency: Real-time frequency measurements used for situational awareness as deemed necessary by AEP-T.	AEP-T			x	10 seconds	Real-time	RTU	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
Remedial Action Schemes (internal to AEP-T) as deemed necessary by AEP-T.	AEP-T		x	x	By exception for status, 10 second for analog	Real-time	RTU	N/A
Remedial Action Schemes (external to AEP-T) as deemed necessary by AEP-T	ICCP Providers, TOP, GOP		x	x	By exception for status, 30 second for analog	Real-time	ICCP, Voice	20% or greater of total data has failed and is impacting RTA/RTM/OPA.

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Protections System Changes (internal to AEP-T)	AEP-T		x	x	By exception for status, 10 second for analog	Real-time	RTU	N/A
Protections System Changes (external to AEP-T)	RC, TOP, GOP		x	x	By exception	Real-time	Verbal notification	20% or greater of total data has failed and is impacting RTA/RTM/OPA.

6.2 Operational Planning Data

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Load Forecast Data for AEP TOP (containing at least 3 days of data)	AEP Production Ops/Load Forecasting, RC	x			Daily	By 7:00 AM EPT (Eastern Prevailing Time) daily	Multiple formats as agreed upon (websites, email, etc.)	N/A
Load Forecast Data external to AEP-T (containing at least 3 days of data)	RC, NERC SDX	x			Daily	By 7:00 AM EPT daily	Multiple formats as agreed upon (websites, email, etc.)	N/A

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Generation Outages (AEP Owned)	GOP, NERC SDX	x			Daily	Per the deadline specified in the applicable RC outage coordination procedures	Multiple formats as agreed upon (websites, email, RC outage management applications)	N/A
Generation Outages (non-AEP Owned)	GOP, NERC SDX, RC	x			Daily	Per the deadline specified in the applicable RC outage coordination procedures	Multiple formats as agreed upon (websites, email, RC outage management applications)	N/A
Transmission Outages (internal to AEP-T): BES and non-BES outages (69 kV and above)	AEP-T	x			As needed	Per the deadline specified in the applicable RC outage coordination procedures	Multiple formats as agreed upon (AEP and RC outage management applications)	N/A

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Transmission Outages (external to AEP-T): BES and non-BES elements external to AEP TOP as deemed necessary by AEP	RC, NERC SDX	x			Daily	Per the deadline specified in the applicable RC outage coordination procedures	Multiple formats as agreed upon (websites, RC outage management applications)	N/A
Weather Forecast Data	AEP-T	x			Daily	Daily AM and updates as required	Multiple formats as agreed upon (websites, email)	N/A
Remedial Action Schemes (internal to AEP-T)	AEP-T	x			As needed	By 9:00 AM EPT daily	Email or as agreed upon	N/A
Remedial Action Schemes (external to AEP-T as deemed necessary)	RC, TOP, GOP	x			As needed	Per the deadline specified in the applicable RC outage coordination procedures	Multiple formats as agreed upon (RC manuals, procedures, studies)	N/A

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Protections System Changes (internal to AEP-T)	AEP-T	x			As needed	Per deadlines established in applicable RC outage coordination procedures, AEP's Transmission Outage Coordination Procedure and Failure or Disabling of Protection Systems Procedure	Multiple formats as agreed upon (AEP and RC outage management applications)	N/A
Protections System Changes (external to AEP-T as deemed necessary)	TOP, GOP	x			As needed	Per deadlines established in applicable RC outage coordination procedures	Multiple formats as agreed upon (email, RC outage management applications)	N/A

6.3 System Modeling and Parameters

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Line, Breaker, Switch, Transformer Equipment: BES and non-BES parameters and topology for elements owned and operated by AEP-T (internal).	AEP-T	x	x		As needed	45 days	Multiple formats as agreed upon	N/A
Line, Breaker, Switch, Transformer Equipment: BES and non-BES parameters and topology for elements not owned or operated by AEP-T as deemed necessary by AEP-T (external).	RC, TOP	x	x		As needed	Quarterly per manual request	Multiple formats as agreed upon	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
Generation Equipment: Generator modeling data for generators connected to AEP transmission system.	RC, AEP Generation (AEP-G), GOP	x	x		As needed	45 days	Multiple formats as agreed upon	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
Generation Equipment: Generator modeling data for generators external to AEP area as deemed necessary by AEP.	RC, TOP	x	x		As needed	Quarterly per manual request	Multiple formats as agreed upon	20% or greater of total data has failed and is impacting RTA/RTM/OPA.

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Generator Capability: Generator capability modeling data for generators as deemed necessary by AEP-T.	RC, GOP	x	x	x	As needed	Quarterly per manual request	Multiple formats as agreed upon	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
Loads: Load model for AEP-T area footprint (Internal).	AEP	x	x		As needed	45 days	Multiple formats as agreed upon	N/A
Loads: Load model for load external to AEP-T footprint as deemed necessary by AEP-T.	RC, TOP	x	x		As needed	Quarterly per manual request	Multiple formats as agreed upon	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
Limits: Limits for BES and non-BES elements owned/operated by AEP-T (internal).	AEP-T	x	x	x	As needed	45 days	Multiple formats as agreed upon	N/A
Limits: Limits for BES and non-BES elements not owned/operated by AEP-T (external) but deemed necessary by AEP-T and agreed upon.	RC, TOP	x	x		As needed	Quarterly per manual request	Multiple formats as agreed upon	20% or greater of total data has failed and is impacting RTA/RTM/OPA.

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
SE Contingency Definitions: Parameters for BES elements and non-BES elements as deemed necessary by AEP-T.	AEP-T	x	x		As needed	45 days	Multiple formats as agreed upon	20% or greater of total data has failed and is impacting RTA/RTM/OPA.
External SE Contingency Definitions: Parameters for BES elements and non-BES elements as deemed necessary by AEP-T.	TOP	x	x		As needed	45 days	Multiple formats as agreed upon	20% or greater of total data has failed and is impacting RTA/RTM/OPA.

6.4 Generating Unit(s) Requirements (Cold Weather)

6.4.1 PJM

Data Items	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Limits: - Capability and availability - Fuel supply and inventory concerns - Fuel switching capabilities - Environmental constraints Minimums: - Design temperature - Historical operating temperature - Current cold weather performance temperature determined by an engineering analysis	PJM Balancing Authority (BA)	x	x		As defined in PJM Manual 01: Control Center and Data Exchange Requirement, Attachment A	As defined in PJM Manual 01: Control Center and Data Exchange Requirement, Attachment A	Stored in eDART, accessible to Transmission Owners (TOs)	As defined in PJM Manual 01: Control Center and Data Exchange Requirement, Attachment A

6.4.2 Southwest Power Pool (SPP)

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Limits: • Capability and availability • Fuel supply and inventory concerns • Fuel switching capabilities • Environmental constraints Minimums: • Design temperature • Historical operating temperature • Current cold weather performance temperature determined by an engineering analysis	SPP BA	x	x		As defined in Required Data Specification for the SPP Reliability Coordinator & the SPP Balancing Authority (BA) in the Eastern Interconnection (RDSEI), Version 10.0 on the SPP Documents & Filings page	As defined in Required Data Specification for the SPP Reliability Coordinator & the SPP Balancing Authority (BA) in the Eastern Interconnection (RDSEI), Version 10.0 on the SPP Documents & Filings page	Multiple formats as agreed upon	As defined in Required Data Specification for the SPP Reliability Coordinator & the SPP Balancing Authority (BA) in the Eastern Interconnection (RDSEI), Version 10.0 on the SPP Documents & Filings page

6.4.3 Electric Reliability Council of Texas (ERCOT)

See ERCOT's CFR: [Mapping-Document-Related-to-NERC-Reliability-Standards-IRO-010-and-TOP-003 V17](#); this document references TOP-003-7 R1.3 Provisions for notification of BES generating unit(s) during local forecasted cold weather, assigning full responsibility to ERCOT.

6.4.4 Midcontinent Independent System Operator (MISO)

Data Item	Data Providers	OPA	RTA	RTM	Periodicity	Deadline	Data Format	Performance Criteria
Limits: • Capability and availability • Fuel supply and inventory concerns • Fuel switching capabilities • Environmental constraints Minimums: • Design temperature • Historical operating temperature • Current cold weather performance temperature determined by an engineering analysis	MISO BA	x	x		As defined in MISO Reliability Data Specification, Version No. 15	As defined in MISO Reliability Data Specification, Version No. 15	As defined in MISO Reliability Data Specification, Version No. 15	As defined in MISO Reliability Data Specification, Version No. 15

7.0 Appendix A: Extended Revision History

Rev.	Description of Change(s)	By	Date
3.0	Conversion to new template. Added columns for OPA/RTA/RTM to clarify how different data is used. Added language clarifying compliance.	Courtney Wright	7/2/2021
2.0	Conversion to new template, content copyedits	Bob Valasek	6/26/2018
1.0	Original Issue. Created as standalone document for AEP TOP-003-3	Ronald E. Allen	12/21/2016