

<b>M-15</b>			
<b>Automatic AC Transmission Outages Initiated by Failed AC Circuit Equipment</b>			
<b>Submittal Date</b>	Approved Sept. 21, 2022 Reviewed October 16, 2019, Revised December 2, 2015, and Submitted December 01, 2014		
<b>Proposal Type</b>	New <input type="checkbox"/>	Revision <input checked="" type="checkbox"/> Revision to an existing metric which was previously named ALR6-14.	Metric Analysis <input type="checkbox"/>
<b>Definition</b>	This metric will use the TADS definition of Failed AC Circuit Equipment calculated as the normalized count (on a 100 per circuit-mile basis) of 100kV and above Transmission circuit outages (i.e. TADS sustained Automatic Outages) initiated by Failed AC Circuit Equipment.		
<b>Rating Criteria</b>	<ul style="list-style-type: none"> <li>• <b>Red (actionable):</b> Year-over-year frequency increase and continues to be above the five-year average.</li> <li>• <b>Yellow (monitor):</b> Year-over-year frequency increase and first year that it is above the five-year average.</li> <li>• <b>White (stable):</b> Year-over-year frequency is no change and is less than five-year average.</li> <li>• <b>Green (good/improving):</b> Year-over-year frequency improvement and less than the five-year average or zero.</li> </ul>		
<b>Purpose</b>	Track Failed AC Circuit Equipment as a contributing factor of Sustained Automatic Transmission Outages.		
<b>Formula or Type of Statistical Analysis</b>	Currently, 100 kV and above Sustained AC Outages initiated by Failed AC Circuit Equipment = Number of Sustained Automatic AC Element Outages occurring on 100 kV and above elements initiated by Failed AC Circuit Equipment / Total 100 circuit-miles of 100 kV and above AC circuits.		
<b>Time Horizon</b>	Five year rolling average		
<b>Metric Start Time or Baseline</b>	Historical time frame		

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<b>Data Collection Interval and Roll Up</b>	The TADS data provides the total number of sustained automatic outages initiated by Failed AC Circuit Equipment <sup>1</sup> and total mileage for AC circuits 100 kV and above.					
<b>Ease of Collection</b>	Data is already being collected via the NERC TADS process.					
<b>Aggregation</b>	Results could be presented by normalized counts on a Regional Entity basis, Interconnection basis, or NERC wide basis.					
<b>Links to NERC Standard</b>	None					
<b>Data Source</b>	The NERC TADS definitions and data.					
<b>Data to be Submitted By</b>	Entities submitting NERC TADS data.					
<b>PAS and NERC Staff Use</b>						
<b>Need for Validation or Pilot</b>	No, the data and results are already being reported via the TADS process.					
<b>SMART Rating</b> PAS SMART rating of proposed metric, metric revision, or new metric analysis method	Total Score	Specific/Simple	Measurable	Attainable	Relevant	Tangible/Timely
	14	3	3	3	3	2
<b>Publications and Documentation</b>	State of Reliability Report					

<sup>1</sup> Most current TADS Data Reporting Instruction Manual can be viewed at : [Transmission Availability Data System \(TADS\) \(nerc.com\)](https://www.nerc.com/Transmission%20Availability%20Data%20System%20(TADS)%20(nerc.com))