

Sample Cold Weather Critical Component (CWCC) Lists

The ERCOT Weatherization & Inspection team provides these lists as samples of potential Cold Weather Critical Components for various types of power generation and transmission facilities. The lists are not intended to be exhaustive nor mandatory but rather represent devices, equipment, components, and systems that ERCOT believes meet the definition of “weather critical component” in 16 TAC §25.55(b)(11) (“any component of a resource or transmission facility that is susceptible to fail as a result of a weather emergency, the occurrence of which failure is like to significantly hinder the ability of the resource or transmission facility to function as intended . . .”)

In accordance with 16 TAC §25.55(c)(1)(E) and 16 TAC §25.55(f)(1)(E), generation entities and Transmission Service Providers (TSPs) must create a list of *cold* weather critical components, review it annually prior to the beginning of the winter season, and update it as necessary.

Nuclear, Coal, and Natural Gas Fired Generators with Steam Cycles	Gas Turbines Without Steam Cycles	Reciprocating Engines	Hydroelectric Facilities	Intermittent Renewable Resources	Transmission Service Provider (TSP)
Inlet air heating systems, if applicable	Inlet air heating systems, if applicable	Knock sensing line, sim(s)	Battery systems	Inverters and medium voltage transformers	Autotransformers
Feed, circulating, and seal water systems	Compressor bleed valves	SCR, emissions control	Water management systems	HVAC systems for inverters, control panels, etc.	Power transformers
Natural gas supply including duct burner systems	Instrument air systems	Main gas supply valve	SF6 breakers (controlled by the Resource)	SF6 breakers (controlled by the Resource)	SF6 breakers
SF6 breakers (controlled by the Resource)	SF6 breakers (controlled by the Resource)	SF6 breakers (controlled by the Resource)	Main, step-up, auxiliary, and standby transformers	Main, step-up, auxiliary, and standby transformers	Static var compensators
Main, step-up, auxiliary, and standby transformers	Main, step-up, auxiliary, and standby transformers	Main, step-up, auxiliary, and standby transformers	Air circulation fans	Feeder breakers	Emergency generators at substations, as applicable
Solid, liquid, and gaseous fuel delivery systems (controlled by the Resource)	Control house and other HVAC systems	Control house and other HVAC systems	Control house and other HVAC systems	Wind pad mounted transformer	Control house and other HVAC systems
Control house and other heating, ventilation, and air conditioning (HVAC) systems	Instrument air transmitters	Instrument air systems	Heating systems <ul style="list-style-type: none"> GPU (governor control systems) heaters Other heater 	Down tower cabinet assembly heaters	Transmission voltage circuit breaker mechanisms that use pneumatic or hydraulic pressure to operate the contacts open, closed, or both
Coal reclaim equipment, conveyors, crushers, and storage bins	Auxiliary cooling water transmitters	Starting air compressors		Hydraulic and lube oil system	Station batteries
Forced, induced draft, primary air and other fan systems	Dew point analyzer			HVAC for control house and battery container	Grounding transformers
Seal oil systems	Main gas supply valve			Fire suppression system	
Flue gas desulfurization (FGD) systems/scrubbers, fly ash and bottom ash handling systems, selective catalytic reduction (SCR) systems, and other air quality control (AQC) systems	Sprint or NOx control			Wind (if present) <ul style="list-style-type: none"> Wind vane and anemometer heating elements Pad-mounted transformer heaters Hydraulic pitch system accumulators and associated heating Gearbox oil heating and circulation systems Converter cooling system anti-freeze protection 	
Demineralized and other water systems, caustic, and sulfuric acid	Coalescing filter			Solar (if present) <ul style="list-style-type: none"> Inverter heating and cooling systems Tracking system motors and gearboxes 	

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				<ul style="list-style-type: none"> Solar panel snow removal systems, if applicable Battery storage thermal management systems (for solar + storage) Meteorological station heating elements 	
Transmitters, sensing lines and other components of: <ul style="list-style-type: none"> Heat exchanger systems Cooling tower or other cooling systems Auxiliary cooling water systems Boiler feedwater systems Drum HP/IP/LP drum systems Deaerator systems Hotwell systems Condensate systems Steam systems Generator cooling systems 	Air quality control systems			Energy Storage <ul style="list-style-type: none"> Electrolyte heating systems for flow batteries Thermal management systems for lithium-ion or other batteries Inverter and power conversion system heaters Fire suppression system components exposed to cold weather HVAC systems for battery enclosures 	
Main and auxiliary cooling towers					
Instrument air systems					
Instrument air systems and transmitters					
Dew point analyzers					
Coalescing filters					
Electrohydraulic control (EHC) systems					