

Conservative



Recloser Blockage – EPSS (Enhanced Powerline Safety Settings)

Protective safety settings preventing automatic re-energization after a fault has been experienced.

Advanced



Fast Trip – EPSS (Enhanced Powerline Safety Settings)

Advanced protection coordination enabling nearly instantaneous system fault isolation.

Critical



PSPS (Public Safety Power Shutoff)

A last measure resort involving proactive system de-energization during periods of severe fire risk.

Recloser Blockage – EPSS <ul style="list-style-type: none">Baseline wildfire ignition protective measure with the lowest impact to system reliability.Used throughout the service area in high-risk fire areas.	Protection Device Criteria	Devices with blockage functionality protecting FortisAlberta overhead assets.	
	Monitoring Area	Grasslands	Forested
	Wind Speed	N/A	N/A
	Fire Risk Metrics:		
	1) 2)	FWI >30 Grass curing 75%	FWI >30 N/A
	Other Considerations	• Alberta Wildfire Red Flag Watch/Warning	

Fast Trip – EPSS	Protection Device Criteria	Devices identified through an engineering analysis across all fast trip capable devices within designated PSPS Areas.					
<ul style="list-style-type: none"> Rapidly detects and deenergizes powerline faults within 100 milliseconds. Patrols are required before restoration resulting in increased outage duration. Increased sensitivity (in fault detection) which may result in more power outages. 	Monitoring Area	Grasslands	Foothills/ Mountains	Crowsnest Pass	Edson/ Whitecourt	Hinton	Clearwater County/ Nordegg
	Wind Speed	>40 km/h	>40 km/h	>40 km/h	>30 km/h	>40 km/h	>30 km/h
	Fire Risk Metrics:						
	1)	ISI >15	FWI >30	FWI >40	FWI >30	FWI >35	FWI >35
	2)	Grass curing 75%	Temperature/ relative humidity crossover	Temperature/ relative humidity crossover	Temperature/ relative humidity crossover	Temperature/ relative humidity crossover	Temperature/ relative humidity crossover
	3)	FFMC >92	N/A	N/A	N/A	N/A	N/A
	Other Considerations	<ul style="list-style-type: none"> Alberta Wildfire Red Flag Watch/Warning Fire bans Wind gusts Hot-dry-windy index (HDWI) Upper air soundings Seasonality/burning period 					

PSPS	Protection Device Criteria	Feeders identified in the high-risk areas PSPS analysis.	
<ul style="list-style-type: none">• Power is proactively turned off when critical wildfire conditions are present.• Highly effective in eliminating ignition risk.• Considered a last resort.• Requires careful impact planning and proactive stakeholder communication.• Continuous monitoring of real-time weather and threshold criteria.• Activation of customer communication and warning of potential power shut off.• Preplanned and coordinated implementation and approach with municipalities and emergency operations centres.• Patrol prior to turning power back on.	Monitoring Area	Edson, Whitecourt, Yellowhead County, Woodlands County, Clearwater County, Nordegg	Bow Valley Corridor, Stoney Nakoda Nations, Crowsnest Pass, Hinton
	Wind Speed	>40 km/h	>60 km/h
	Fire Risk Metrics:	FWI >40	FWI >60
	Other Considerations	<ul style="list-style-type: none">• Alberta Wildfire Red Flag Watch/Warning• Fire bans and forest closures• Wind gusts• Structural wind loads• Temperature/relative humidity crossover• Hot-dry-windy index• Upper air soundings• Seasonality/burning period	