

Alberta Remedial Actions Schemes

Date: July 20, 2018

APS #	Scheme Name	Owner(s)	Scheme Function	Life Span
20	Anderson 801s 240 kV Line 9L933, 9L934 and 9L950 Thermal Protection Scheme to Sheerness Plant	ATCO Electric, Other MP	Mitigates overloads on each line by sending alarm and trip to the Sheerness Plant.	Permanent
25	Brazeau 62s Generation Tripping Scheme	AltaLink	Protects 138 kV system load from overload by tripping generation in post Category B of 995L.	Permanent
27	562S Cypress McNeil Power and Undervoltage Scheme	ATCO Electric, AltaLink	Mitigates voltage instability in southeast AIES during export energy schedule to Saskatchewan	Permanent
28	163S Amoco Empress Reverse Power and Undervoltage Scheme	AltaLink	Mitigates voltage instability in southeast AIES in post C5 of 240 kV lines between 132s Ware Junction and 163s Amoco Empress	Permanent
29	McNeil (840s) Under Voltage Runback Scheme	ATCO Electric	Mitigates voltage instability in southeast AIES during export energy schedule to Saskatchewan.	Permanent
32	Battle River 757s 7L50 and 7L701 Thermal Protection Scheme	ATCO Electric	Line overload mitigation by using Thermal Protection Scheme (TPS). If overload occurs on any of the two lines, the scheme sends runback alarm and/or trip to designated Battle River unit 3 or 4.	Permanent
33	Cypress (T562s) Reverse Power and Undervoltage Scheme	AltaLink	Mitigate voltage instability in southeast AIES in post C5 of 240 kV lines between 132s Ware Junction and 562s Cypress.	Permanent

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36	Garden City 226s WAGF Trip Scheme	AltaLink	Protects 225L line from potential overload in post 863L open end at 618s Riverbend.	Permanent
37	Peigan 59s - 616L Overload Mitigation Scheme	AltaLink	Protects line from overload by runback and/or trip generation.	Permanent
40	Coleman 799s - 786L Overload Mitigation Scheme	AltaLink, Other MP	Protects line from overload by runback and/or trip generation.	Permanent
43	Stirling 67s - 508L Load Trip Scheme	AltaLink	Protects area load from voltage collapse.	Permanent
46	Bickerdike 39s - 740L Load Trip Scheme	AltaLink	Protects area load from low voltage under extreme contingencies.	Permanent
47	Obed Mountain Coal 411s - Load Trip Scheme	AltaLink	Protects area load from low voltage under extreme contingencies.	Permanent
49	Summit 653s (ENMAX Crossfield) 752L Overload Mitigation Scheme	AltaLink	Protects line from overload by runback and/or trip generation.	Permanent
50	Summit 653s (ENMAX Crossfield) 688L Overload Mitigation Scheme	AltaLink	Protects line from overload by runback and/or trip generation.	Permanent
120	Grassland I-282s AIPac Load Trip Scheme	AltaLink	Protect area load from under voltage in post AI-Pac generation trip.	Permanent
121	Bigstone 86s - Overload Mitigation Scheme	AltaLink	Protect area 138 kV system from potential thermal damage.	Permanent
126	Magrath 225s Generation Trip Scheme	AltaLink	Mitigates overload on 225L.	Permanent
129	Goose Lake 103s 613L Overload Mitigation Scheme	AltaLink	Mitigates overload on 613L and 240 kV outages.	Permanent

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131	CNRL and Cenovus Load Trip scheme	ATCO Electric	Mitigates potential overload and other reliability concerns in the area.	Temporary
133	Beddington 162s Overload Mitigation Scheme	Enmax	Mitigates potential overload and other reliability concerns in the area.	Temporary
136	Direct Transfer Trip to MATL on Loss of 1201L	AltaLink	Ensures compliance with Category A, B and C events.	Permanent
137	MATL Local Detection Scheme	Enbridge	Ensures compliance with Category A, B and C events.	Permanent
138	7L50 -526S Buffalo Creek Overload Mitigation Scheme	AltaLink	Mitigates potential overload and other reliability concerns in the area.	Temporary
139	901T-766S Nevis Overload Mitigation Scheme	ATCO Electric	Mitigates potential overload and other reliability concerns in the area.	Temporary
140	892L (895S - 244S) Overload Mitigation	AltaLink	Mitigates potential overload and other reliability concerns in the area.	Temporary
141	498S Voltage Instability Mitigation	AltaLink	Mitigates potential voltage instability under peak load conditions.	Temporary
142	799L Overload and 77S Low Voltage Mitigation	AltaLink	Mitigates potential voltage instability and overload under peak load conditions.	Permanent
145	Shepard RAS - Mitigation of 138 kV Thermal Constraints on ENMAX System	Enmax	Mitigates overload on ENMAX 138 kV system.	Permanent
149	EATL HVDC	ATCO Electric, AltaLink	Mitigate potential overload cause by HVDC dispatch	Permanent
150	WATL HVDC	AltaLink	Mitigate potential overload cause by HVDC dispatch	Permanent

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151	223S Strome Low Voltage Mitigation	AltaLink	Mitigates low voltage	Temporary
153	Mitigation of 138 kV Thermal Constraints on ENMAX System at SS-65	Enmax	Mitigates overload on ENMAX 138 kV system	Permanent
155	Kearl Voltage Stability Mitigation	ATCO Electric	Mitigates low voltage and voltage stability	Temporary
159	936S Norberg Under Voltage Mitigation	ATCO Electric	Mitigates low voltage on the area's 144 kV system	Temporary
604	Windy Point/Oldman River Tripping Scheme	AltaLink	Protects area lines from overload by tripping generation	Permanent
605	Summerview Tripping Scheme	AltaLink	Protects area lines from overload by tripping generation	Permanent

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