

	<b>Date</b>	<b>Time</b>	<b>Outage Investigation Summary</b>
1	7/17/2008	16:30:26	Lightning strike of -17kA caused fault at 16:30:24.9 about 0.85 miles from Holmes as correlated by FALLS. Line G-AMB71 tripped properly at both ends.
2	7/17/2008	4:03:09	Storms and lightning reported in the area. This phase-to-phase-to-ground (A-C to G) fault was correlated to a -31 kA lightning strike at 04:03:09:182 in FALLS about 26 miles from Dead River Substation. Line 85601 tripped and did not auto reclose, as designed, since it was a multi-phase fault.
3	7/7/2008	22:27:32	FALLS correlated a -30kA lightning strike 5.0 miles from Ingalls (relays show 6.0 miles) at 2008-07-07 22:27:31.315. GINS11 single trip with successful auto reclose.
4	6/28/2008	1:31:05	FALLS correlated a -122 kA strike at 01:31:04.001, located 10.2 miles from Presque Isle. Both Line 457 and 446 events are in this entry (both lines on one tower, two lines tripped).
5	6/22/2008	12:04:39	Lightning. Correlated in FALLS to a -18 kA lightning strike at 12:04:43.836 0.67 miles away from Plains, which caused trip of both lines 6120 and 6130. Line 6120 tripped for a double line to ground fault and successfully auto reclosed. Line 6130 tripped for a single line to ground fault and successfully auto reclosed. Line 6150 overtrip for this fault was caused by failed relay KD-10. The KD-10 relay has since been replaced. All 69kV relays at Plains Substation are to be replaced by 2009.
6	6/14/2008	16:06:21	Correlates with -19kA lightning strike at 16:06:22.120 located 0.56 miles from Plains per FALLS. 60842 is on same steel tower - see also outage 113109 which is simultaneous fault of 60842 with 60853.
7	6/10/2008	12:28:05	Per FALLS, there was a -17kA lightning strike 12.1 miles from Forsyth at 2008-06-10 12:28:04.414. The 3 phase fault, 5.7 miles from Empire on the Forsyth line.
<b>Note: No FALLS lightning correlations for events 8 through 11.</b>			
8	2/6/2008	14:44:48	Line D-30 tripped, cause unknown.
9	12/13/2007	11:08:02	Logger downed tree 4 spans out from Pioneer, made contact with line. No smart relays on line F-58. Neighboring line Pioneer to Stiles 321 showed reverse fault at 1.1 miles even with Falls infeed. Told operations it was very close to Pioneer. (Had over 6KA fault currents, BC fault.) Dispatch said it reclosed, must be from WM, only one event at Pioneer. EMS time of 11:08:00
10	11/6/2007	3:11:00	Line PI336 BG fault approx 3.5 to 3.7 miles from PRI at 03:10:57.919. Wind and snow are probable cause. Reclosing was turned off at Cedar at the time.
11	11/5/2007	9:32:59	No forced outage at this time.