



# ATC Report

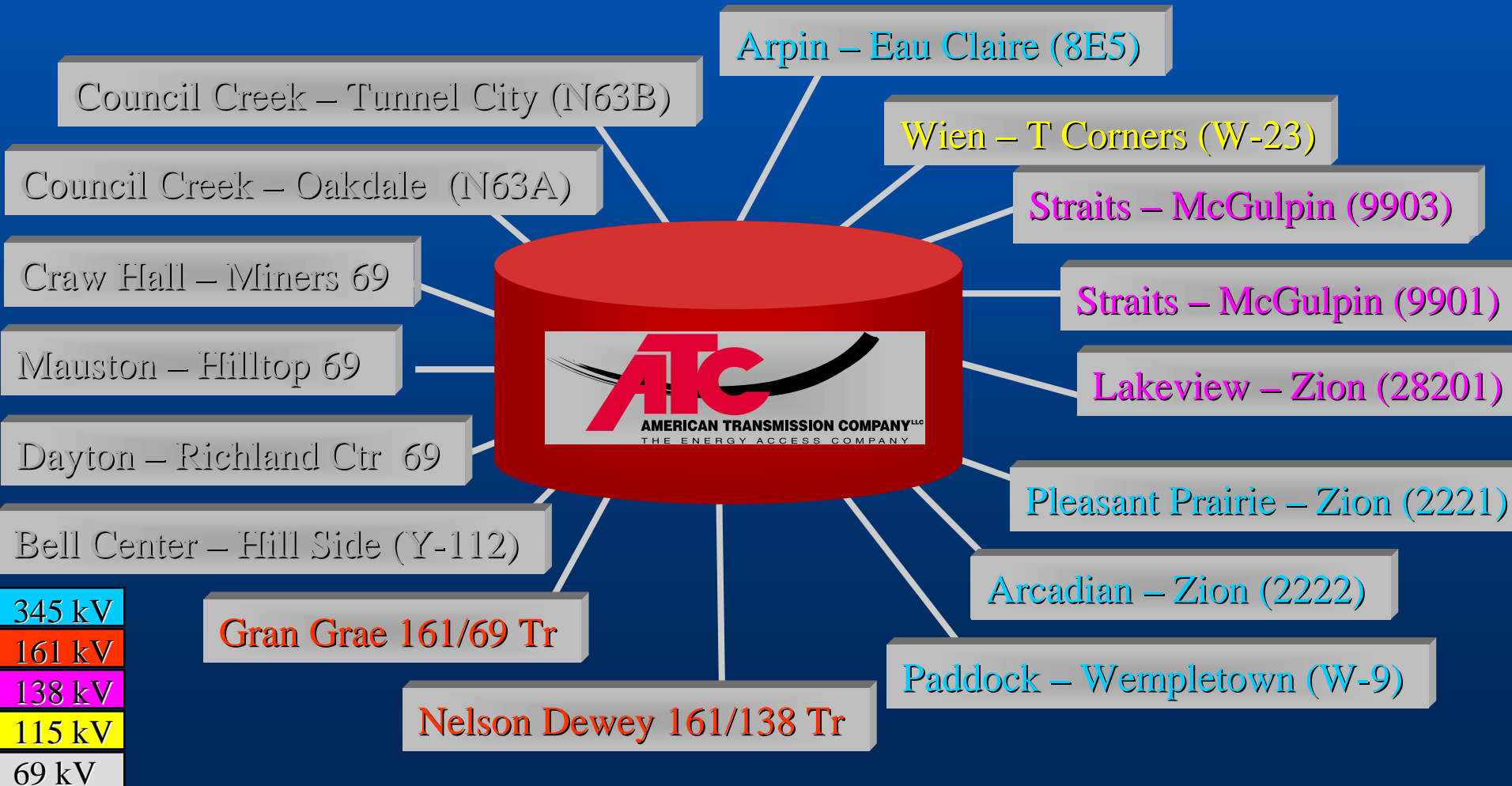
## Aug 14, 2003 Event

### Cont. Part 2

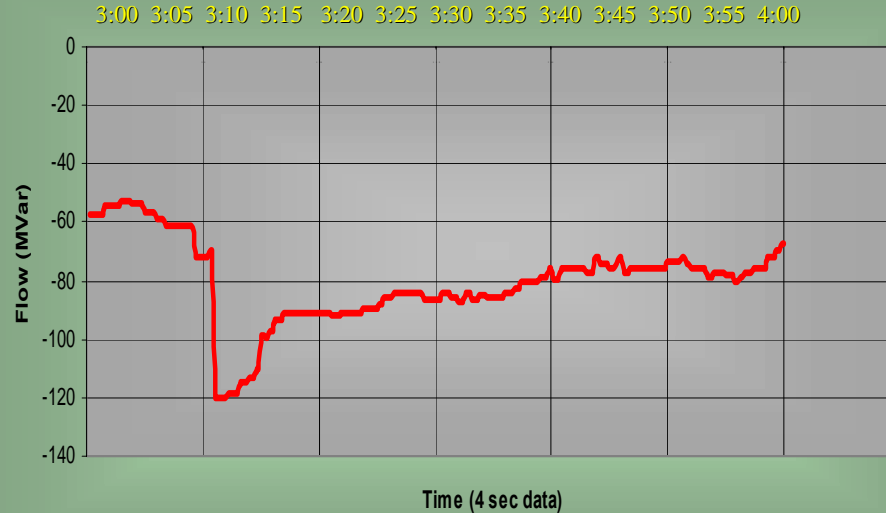
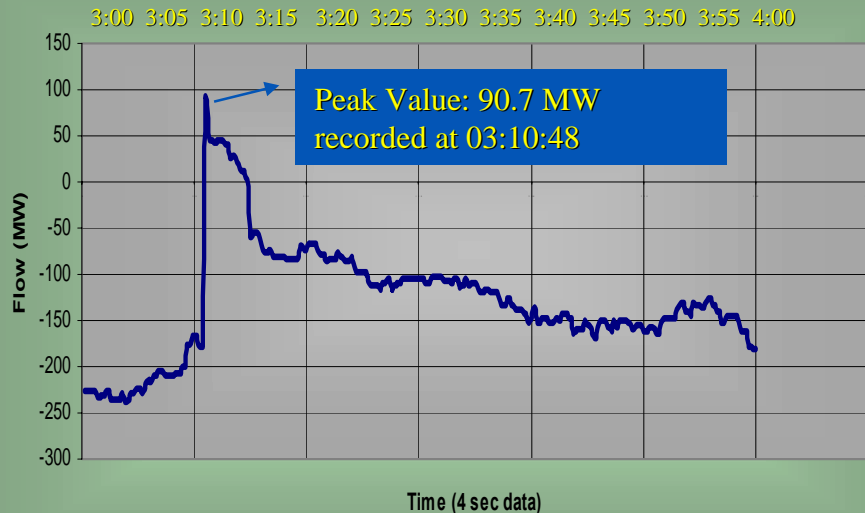
Edina Bajrektarević  
Transmission Operations



# ATC Interconnections

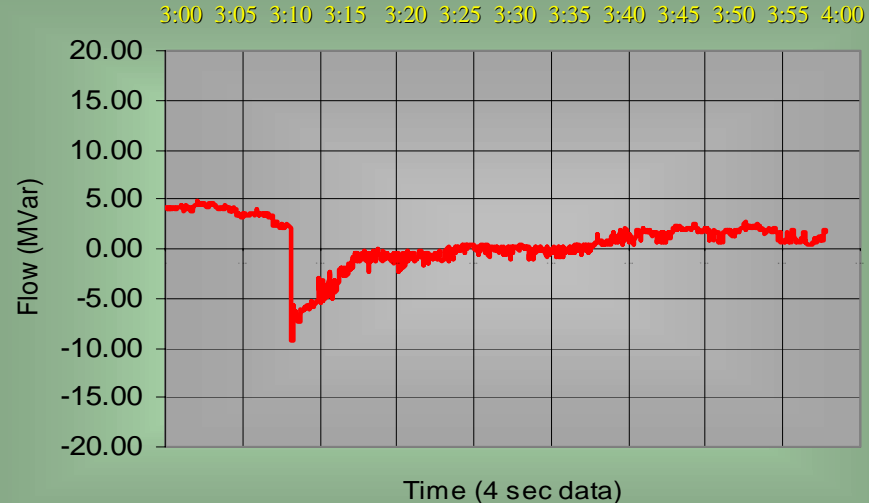
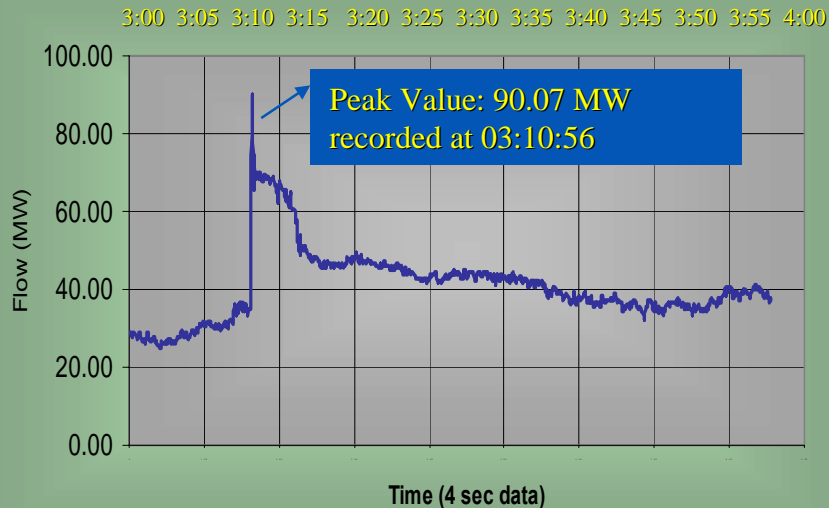


# Arpin – Eau Claire 345 kV line (8E5)



\*Note: Measurement taken at Arpin Substation

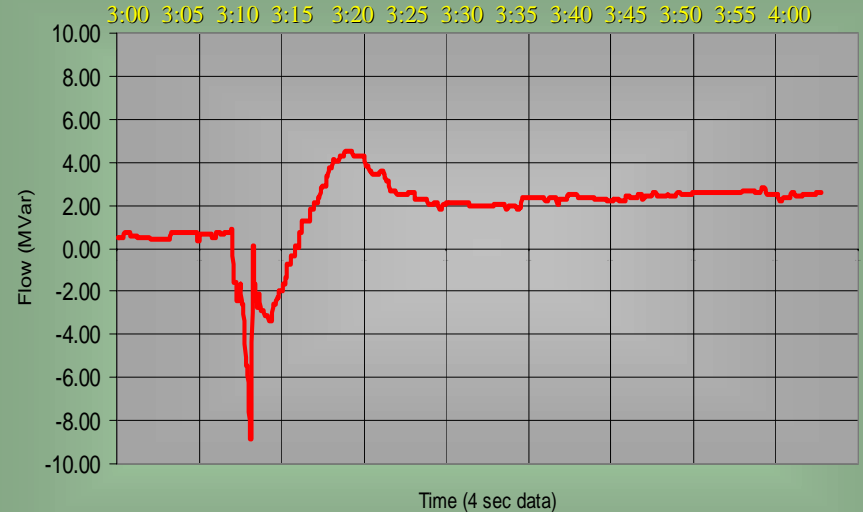
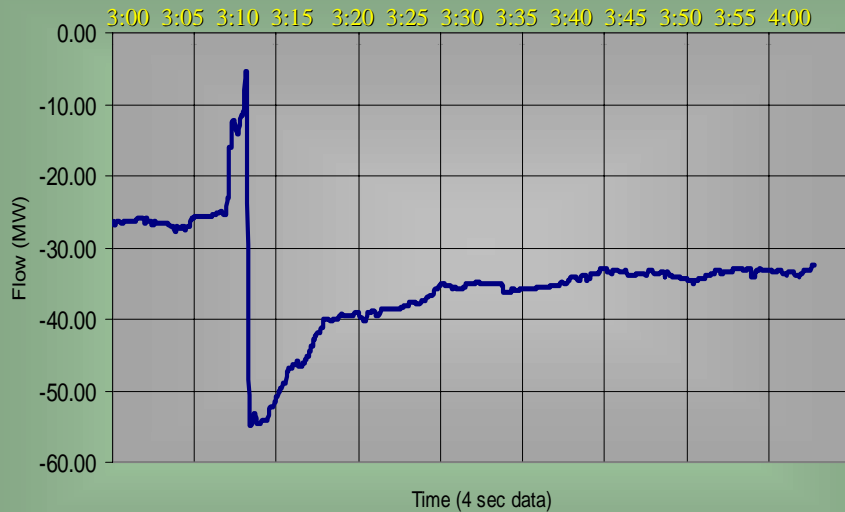
# Wien – T Corners 115 kV line (W-23)



\*Note: Measurement taken at Wien Substation

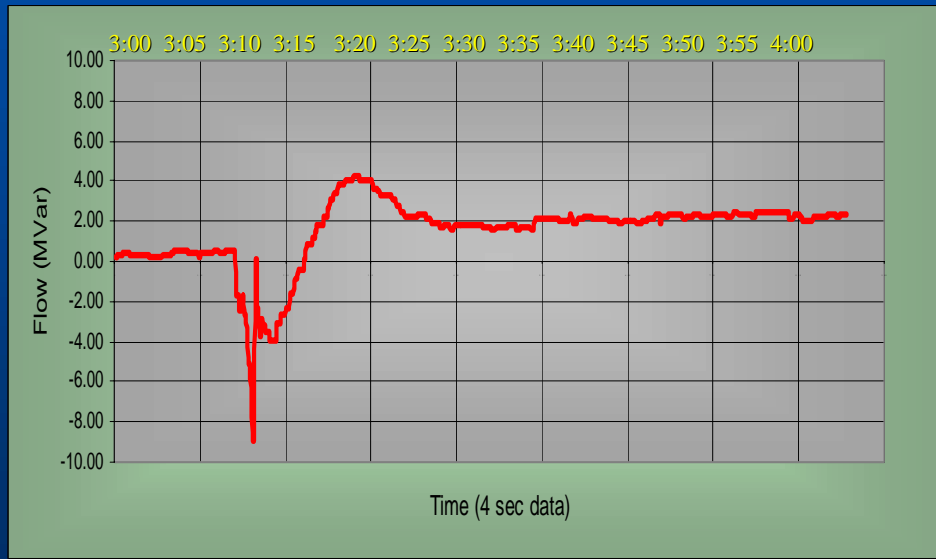
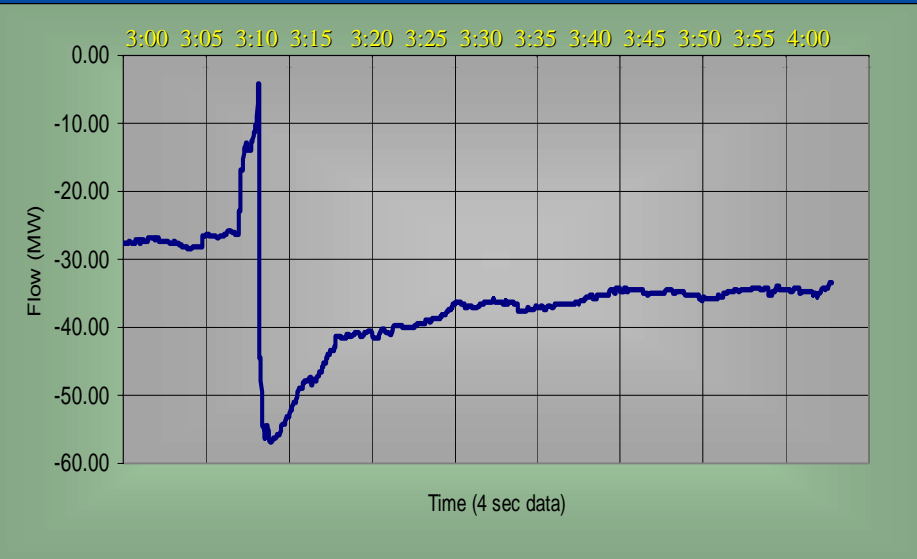
# Straits – McGulpin 138 kV line (9901)

Please note that (-) flows means into the measuring location, e.g. MW is coming to the Straits in this example



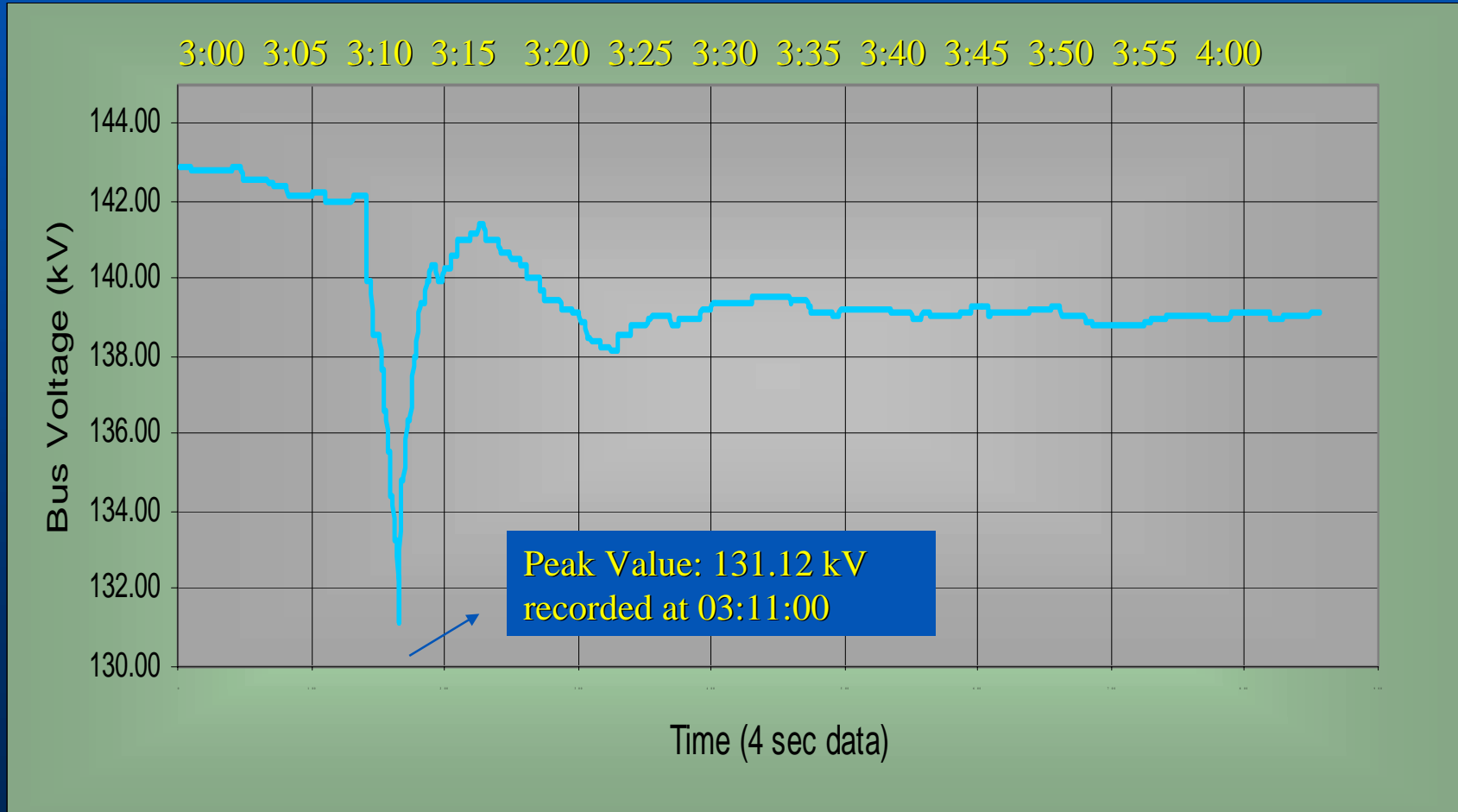
\*Note: Measurement taken at Straits Substation.

# Straits – McGulpin 138 kV line (9903)



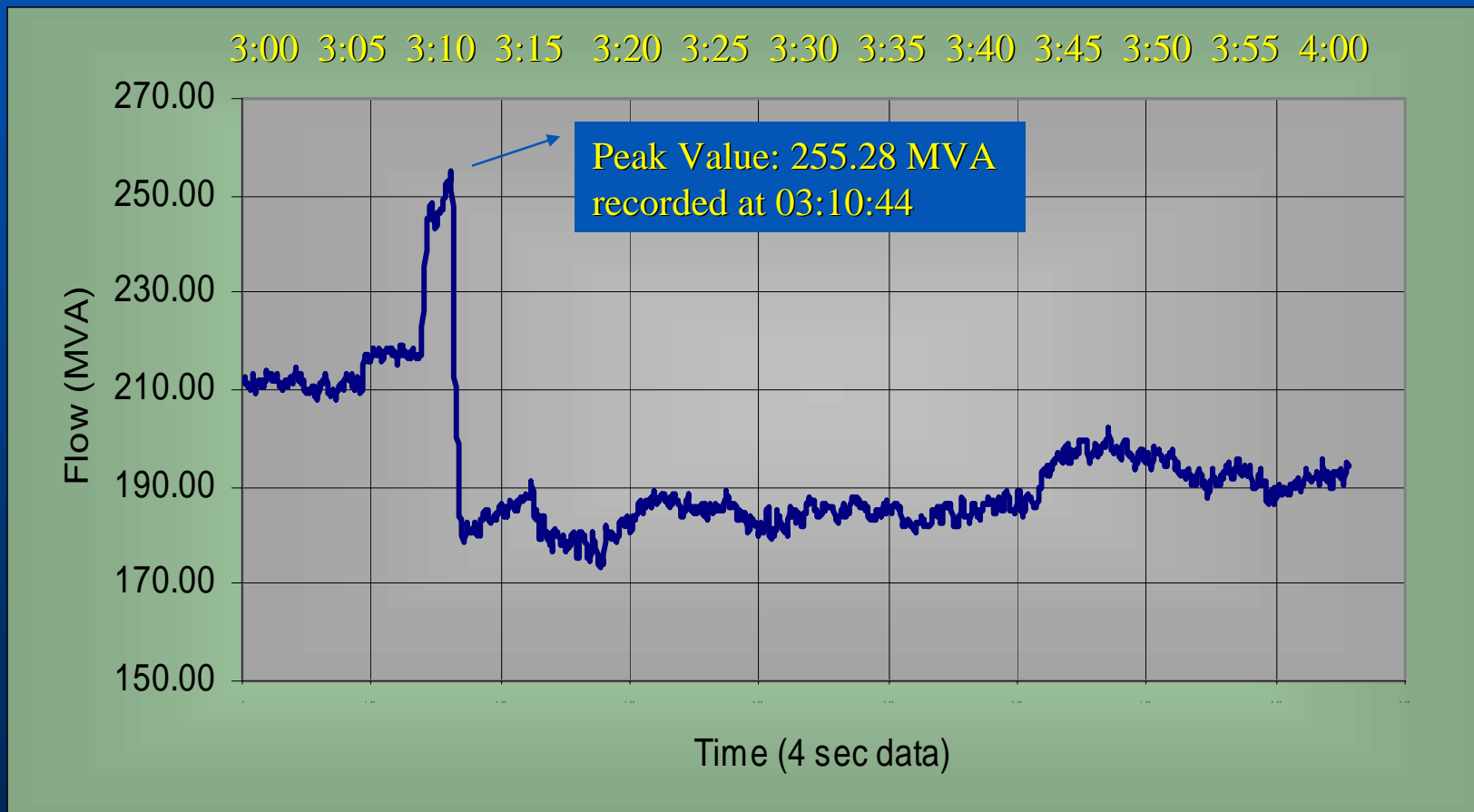
\*Note: Measurement taken at Straits Substation

# Straits 138 kV Bus Voltage



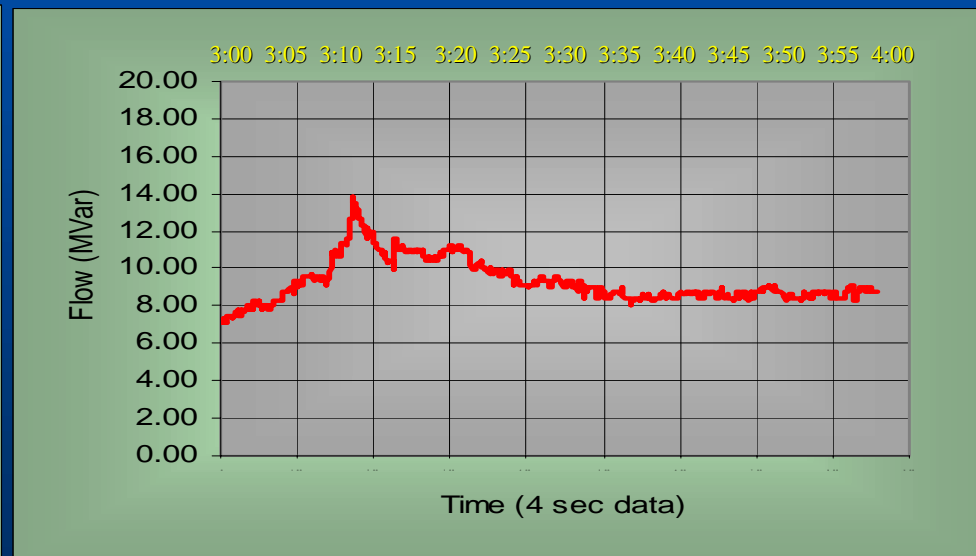
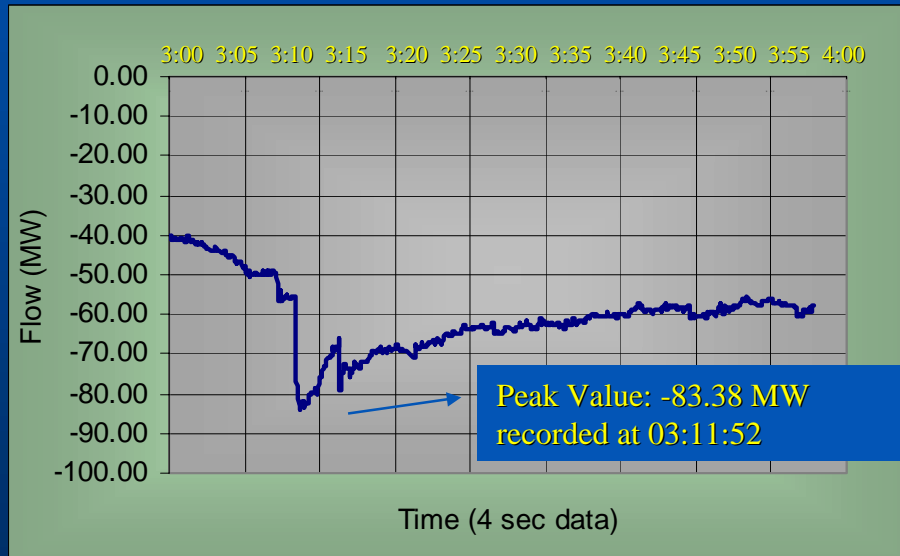
\*Note: Measurement taken at Straits Substation

# Flow South (MVA)





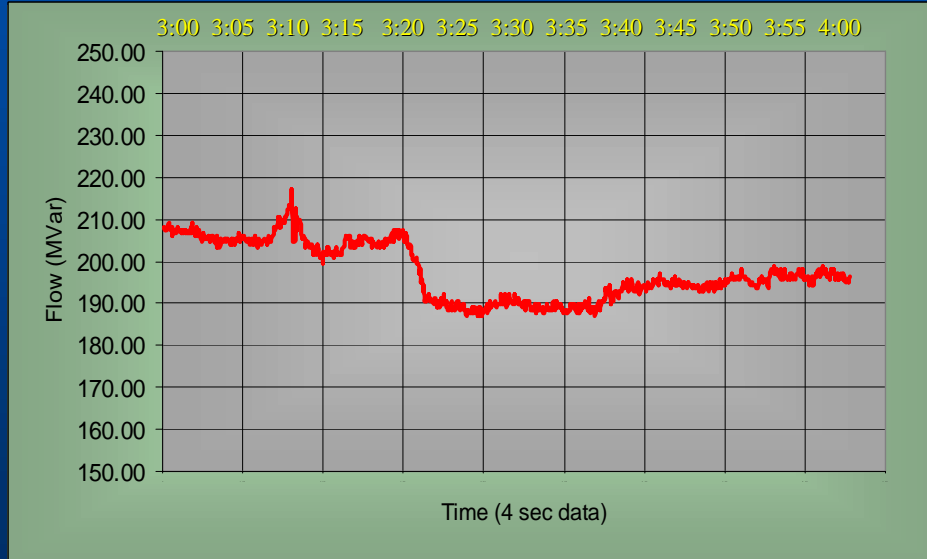
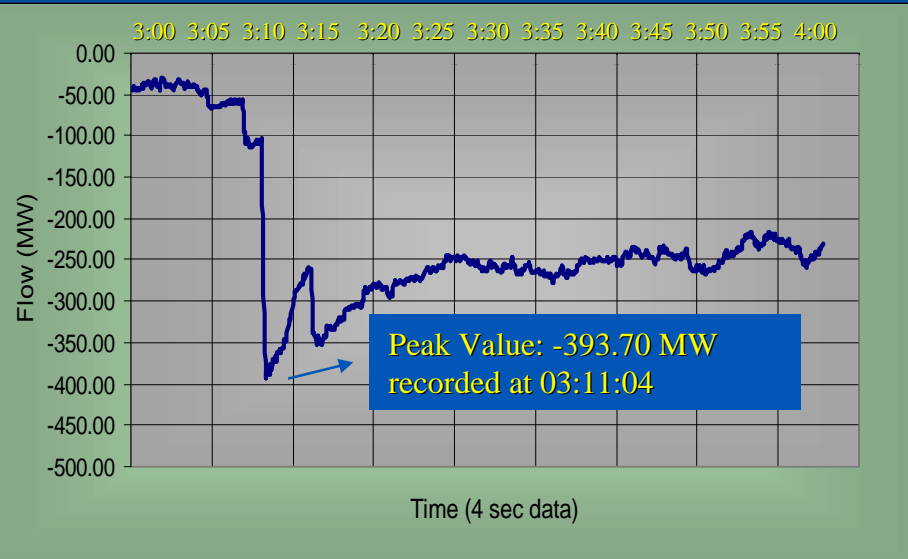
# Lakeview – Zion Dist 138 kV line (28201)



\*Note: Measurement taken at Lakeview Substation

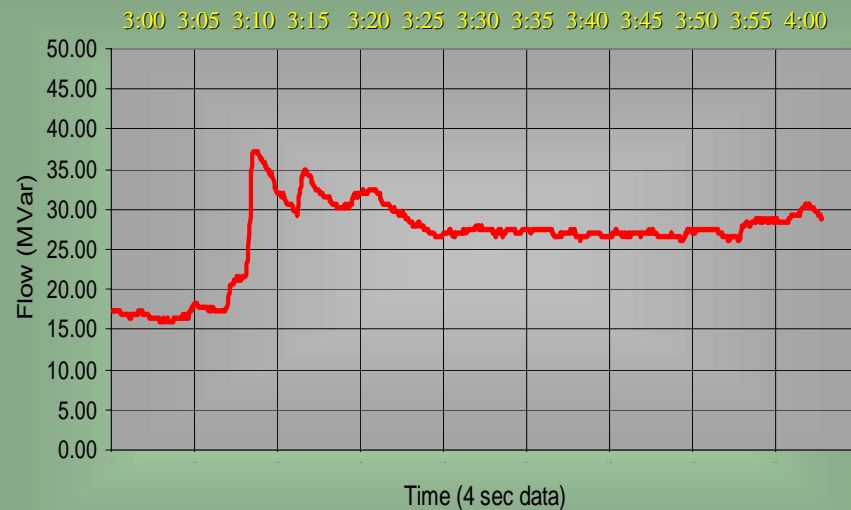
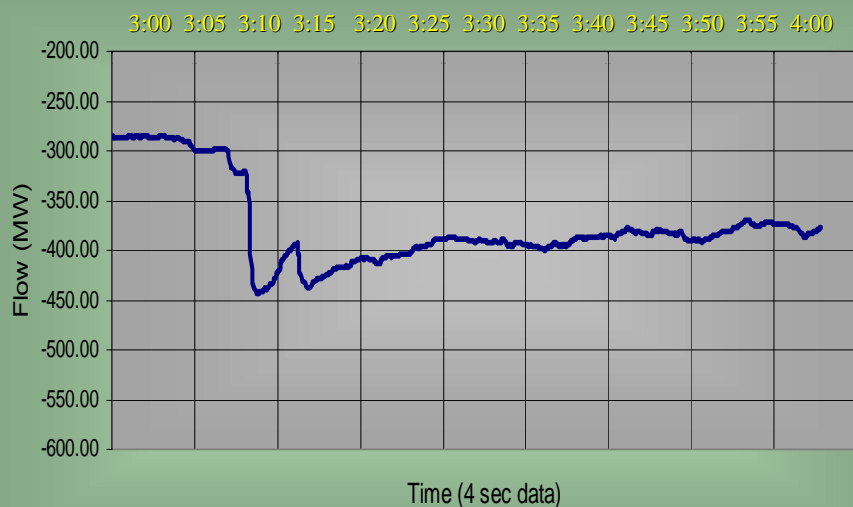


# Pleasant Prairie – Zion 345 kV line (2221)



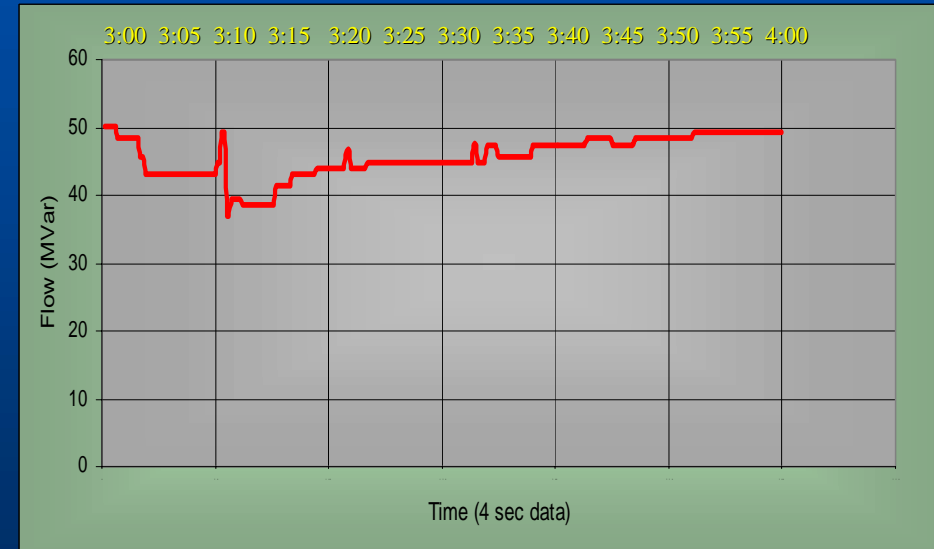
\*Note: Measurement taken at Pleasant Prairie Substation

# Arcadian – Zion 345 kV line (2222)



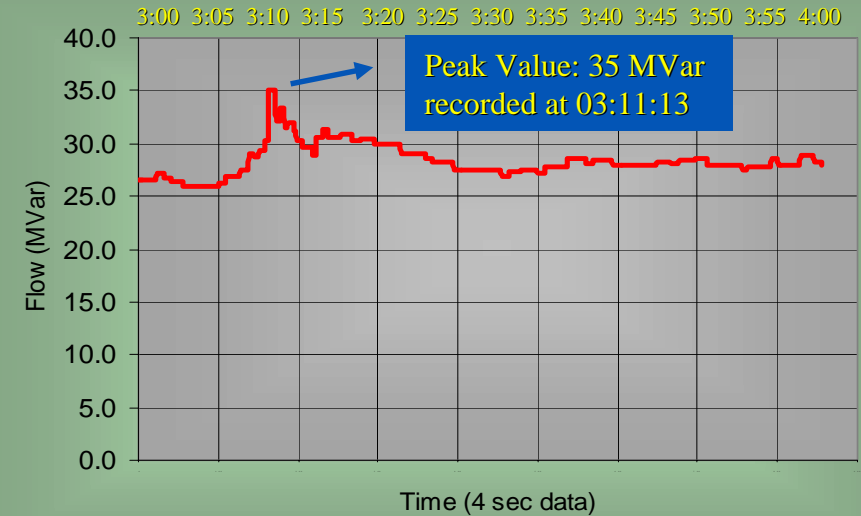
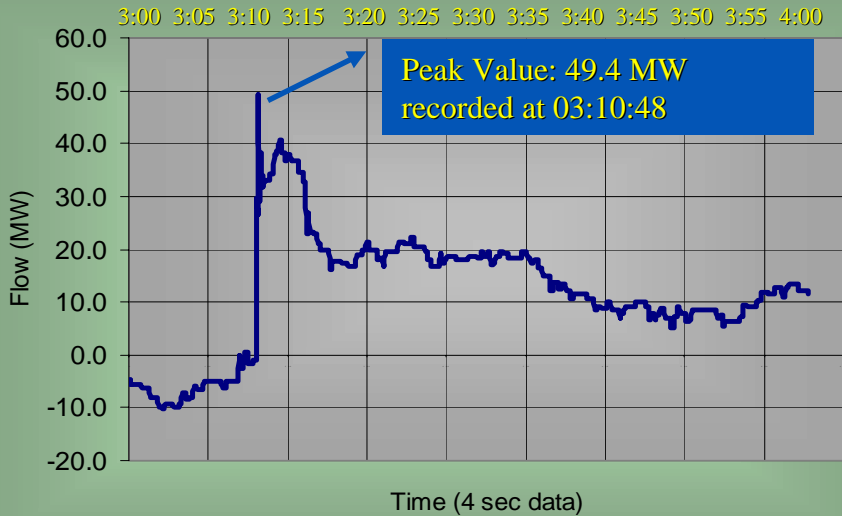
\*Note: Measurement taken at Arcadian Substation

# Paddock – Wempletown 345 kV line (W-9)



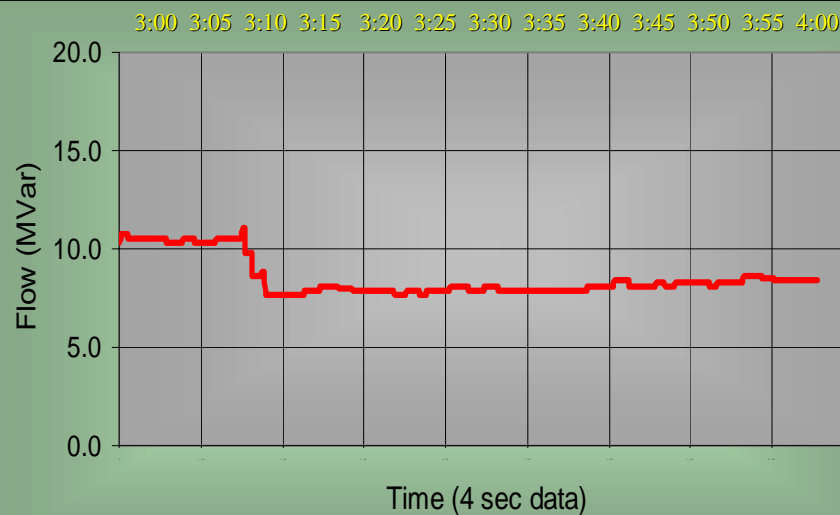
\*Note: Measurement taken at Paddock Substation

# Nelson Dewey 161/138 Transformer



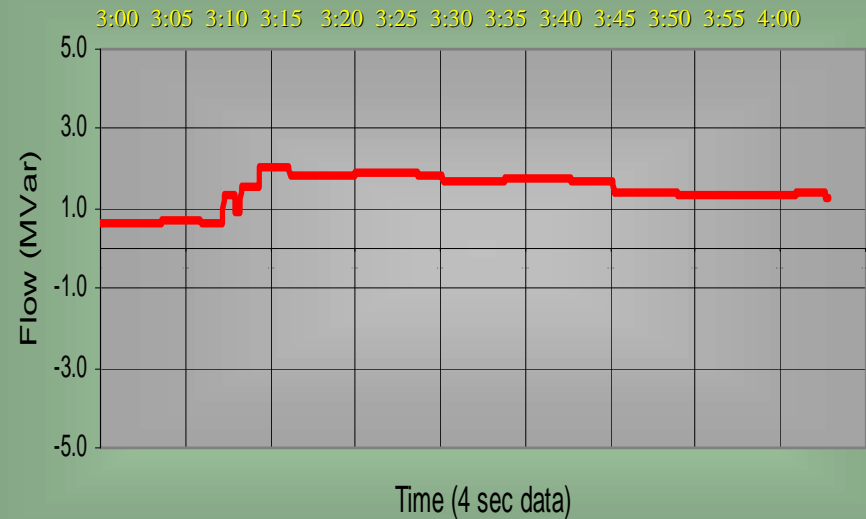
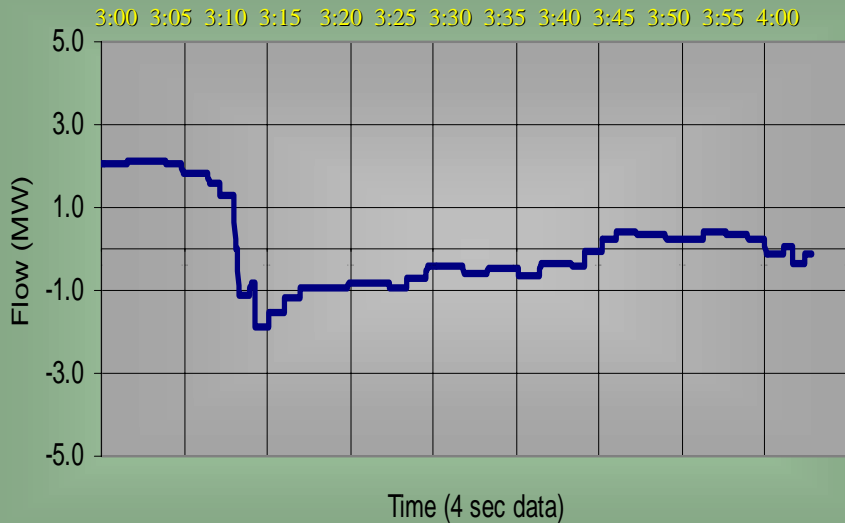
\*Note: Measurement taken at Nelson Dewey Substation

# Gran Grae 161/69 Transformer



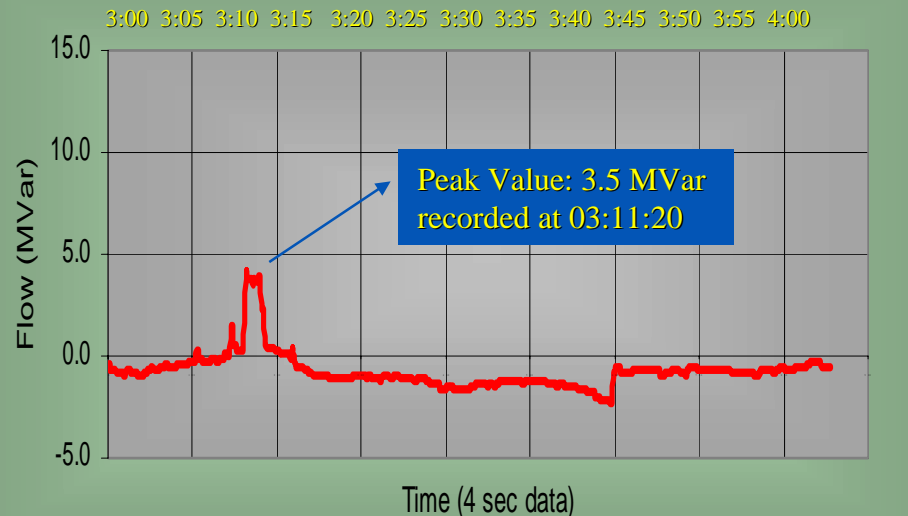
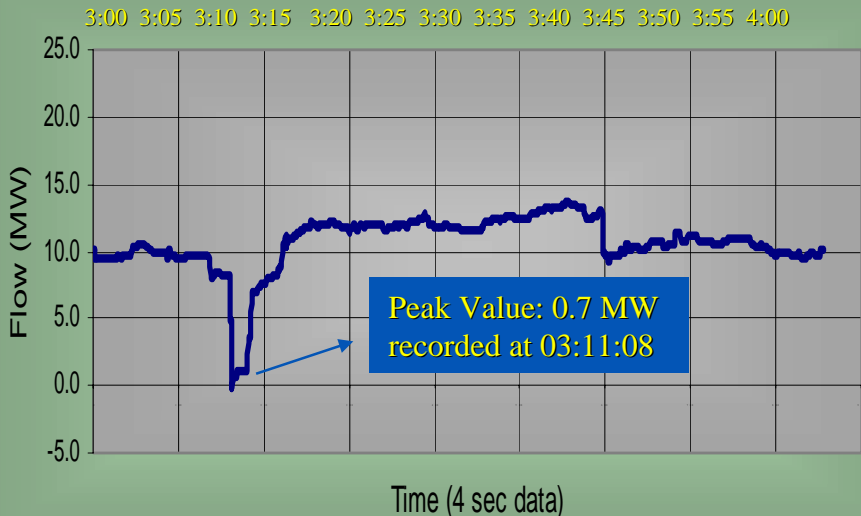
\*Note: Measurement taken at Gran Grae Substation

# Bell Center – Hill Side 69 kV line (Y-112)



\*Note: Measurement taken at Bell Center Substation

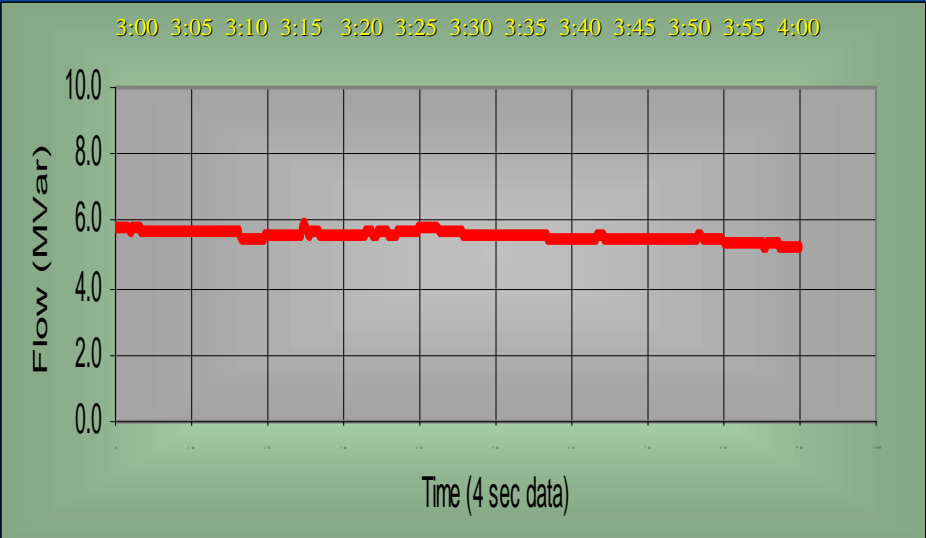
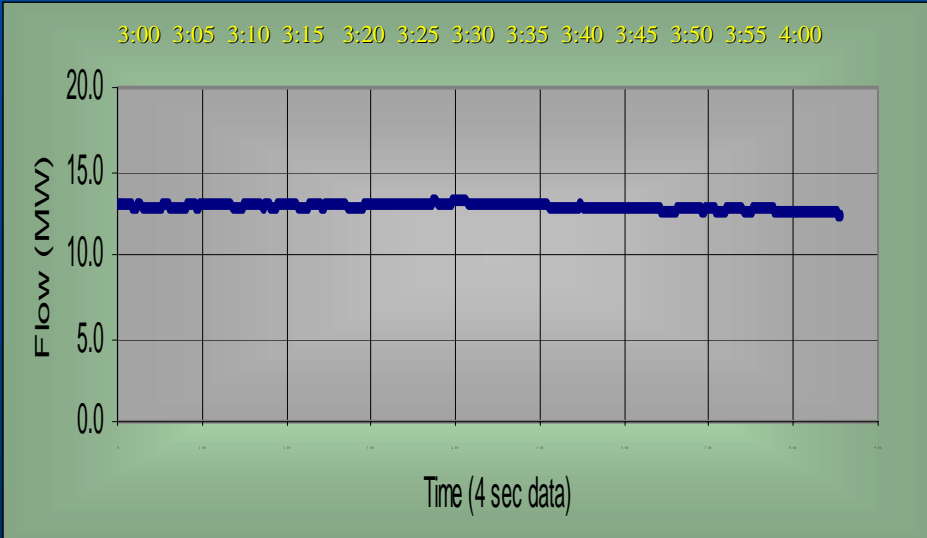
# Dayton – Richland Center 69 kV line



\*Note: Measurement taken at Dayton Substation

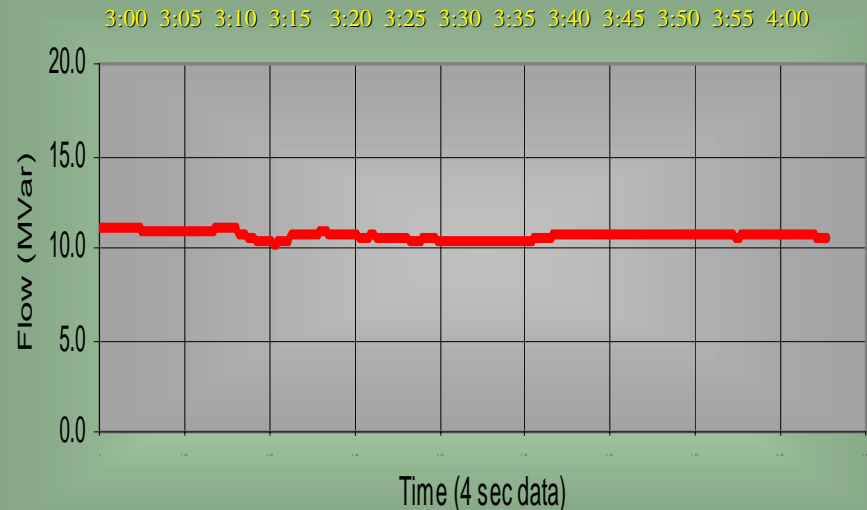
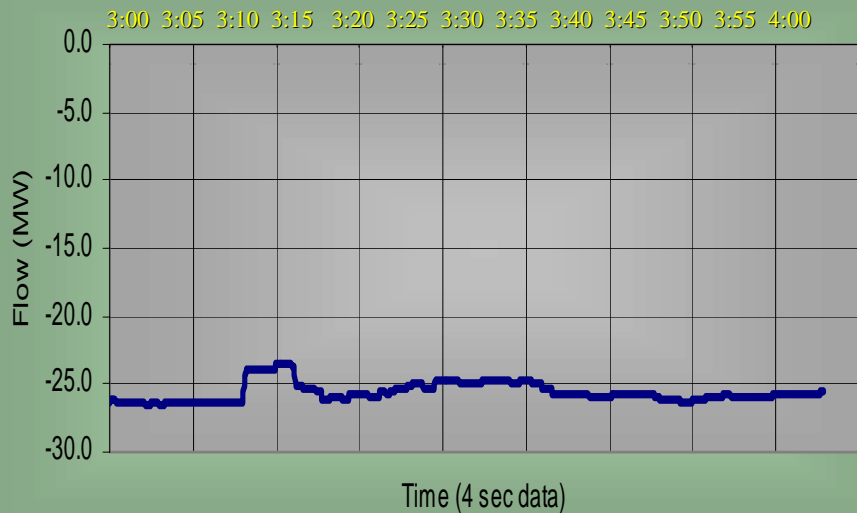


# Mauston – Hilltop 69 kV line (Y-89)



\*Note: Measurement taken at Hilltop Substation

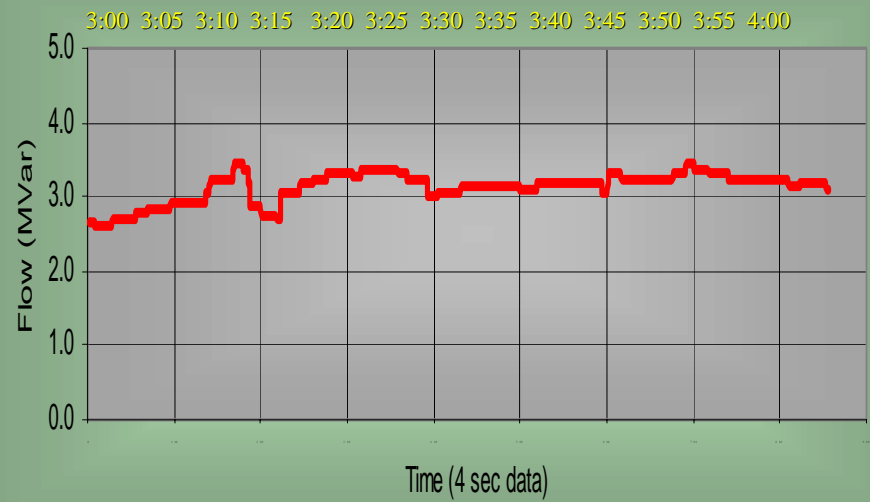
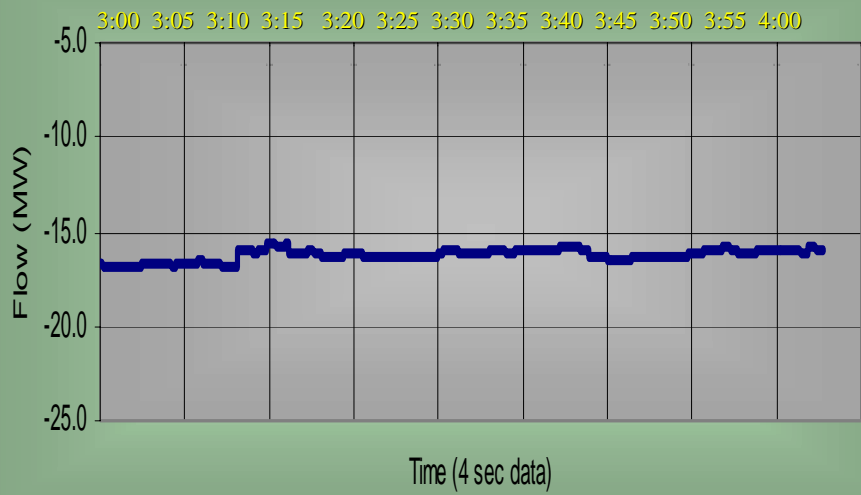
# Craw Hall – Miners 69 kV line



\*Note: Measurement taken at Miners Substation



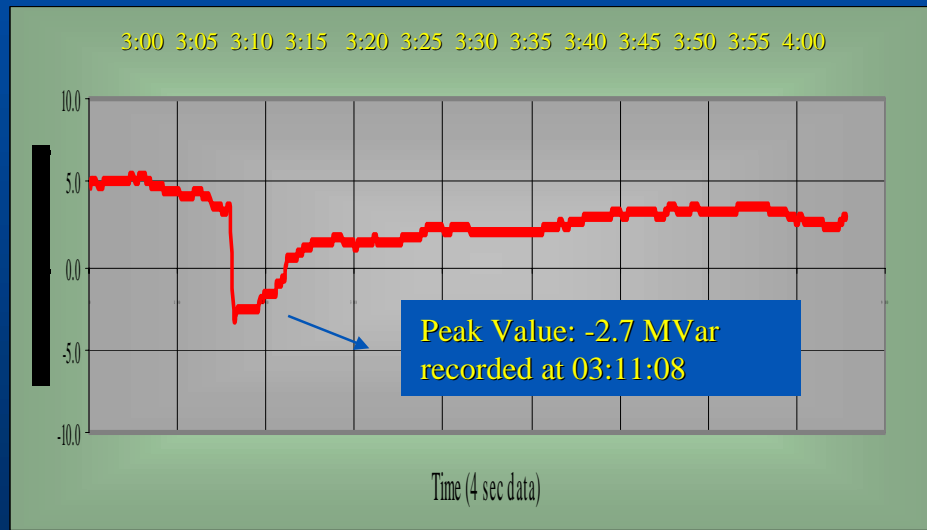
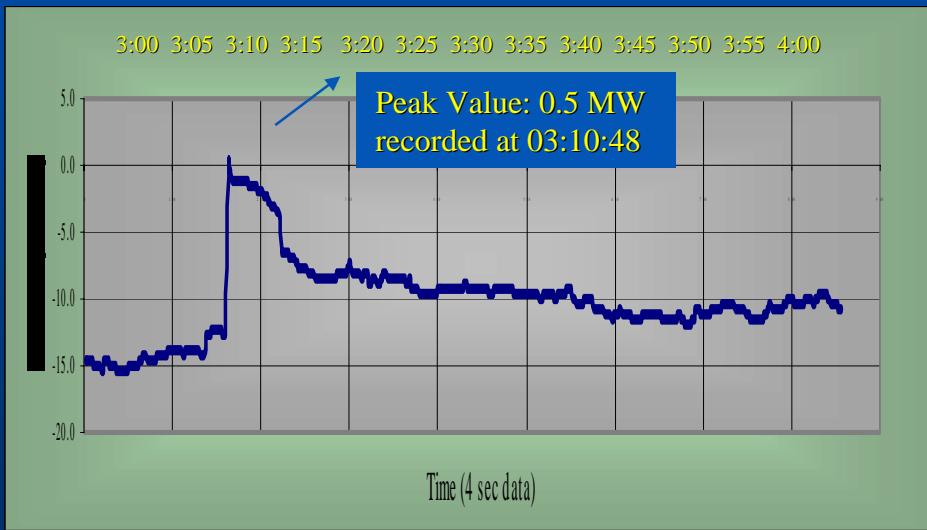
# Council Creek – Oakdale 69 kV line (N63A)



\*Note: Measurement taken at Council Creek Substation



# Council Creek – Tunnel City 69 kV line (N63B)



\*Note: Measurement taken at Council Creek Substation

# Summary



- ATC System remained stable throughout Northeast USA Blackout of Aug 14, 2003
- Highest recorded frequency on the ATC system was 60.29 Hz at Racine Substation
- Edgewater Unit 4 was the only unit that tripped on the ATC system
- There were no transmission line trips on the ATC system as a result of this event
- Largest voltage deviation on the ATC system occurred at Straits Substation (approximately 10 kV)