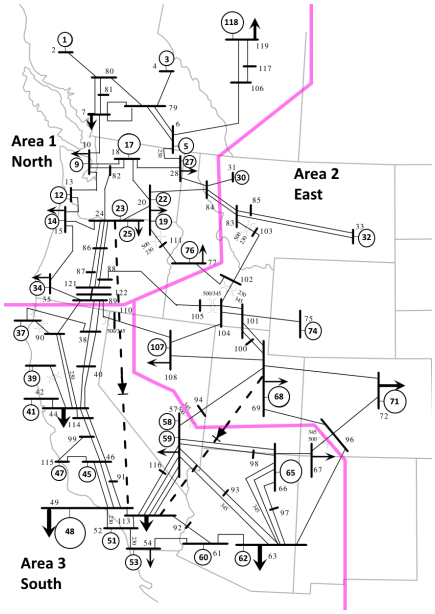
10 Minute AGC Recovery of Mini WECC after 2 Generator Trips

- Events: Trip of Bus 1 Gen at t= 5
  Trip of Bus 30 Gen at t = 8
- Each area has identical conditional AGC that acts at t=40 and again when t=160, 280, 400, 520 (i.e. 2 minute action time).
- ODE solver tolerances:

  Relative: 1e-5

  Absolute: 1e-7
- States and derivatives of tripped machines set to zero.



	Step Size [seconds]				Solutions Per Step				
Method	Max.	Min.	Ave.	Total Steps	Ave.	Max.	Total Slns.	Sim. Time	Speed Up
FTS	0.0083	8.30E-04	0.0083	72,001	2	2	144,002	707.51	1.00
VTS	0.5333	2.03E-06	0.0273	22,006	3	783	57,448	540.02	1.31
VTS - 0dx	3.2744	2.03E-06	0.0757	7,932	3	781	21,260	210.51	3.36

Result Summary:

- Zeroing out of machine states and derivatives decreased required simulation time.
- Unsure why time steps remained 'small' when $t > 300$.