

Timestep = 1.0 seconds

MiniWECC 30 Minutes of 0.03% noise.

AGC Settings:

- B = 1% initial area load
- Action Time: 15 seconds
- ACE Gain: 1.75
- Filtering: PI  $k_p=0.025$   $a=0.0001$
- IACE Included, 15 second window average

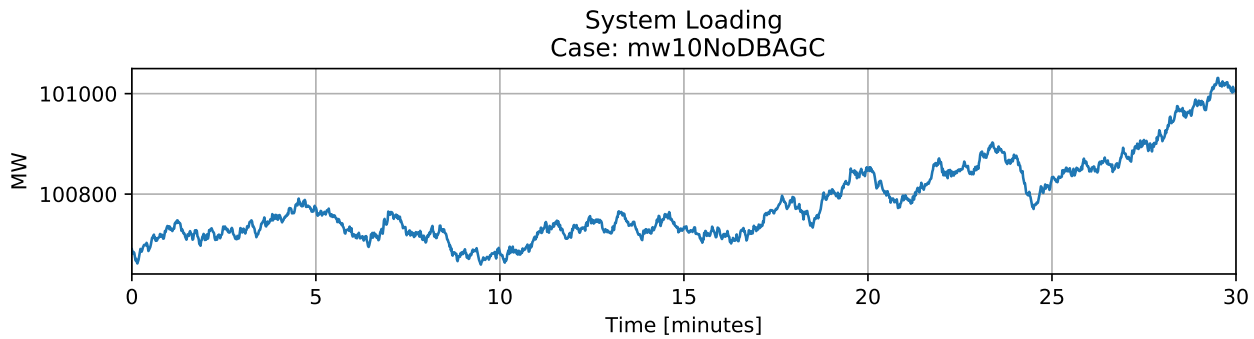
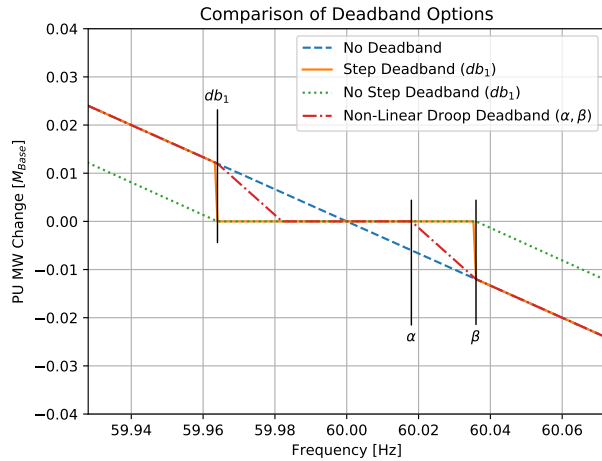
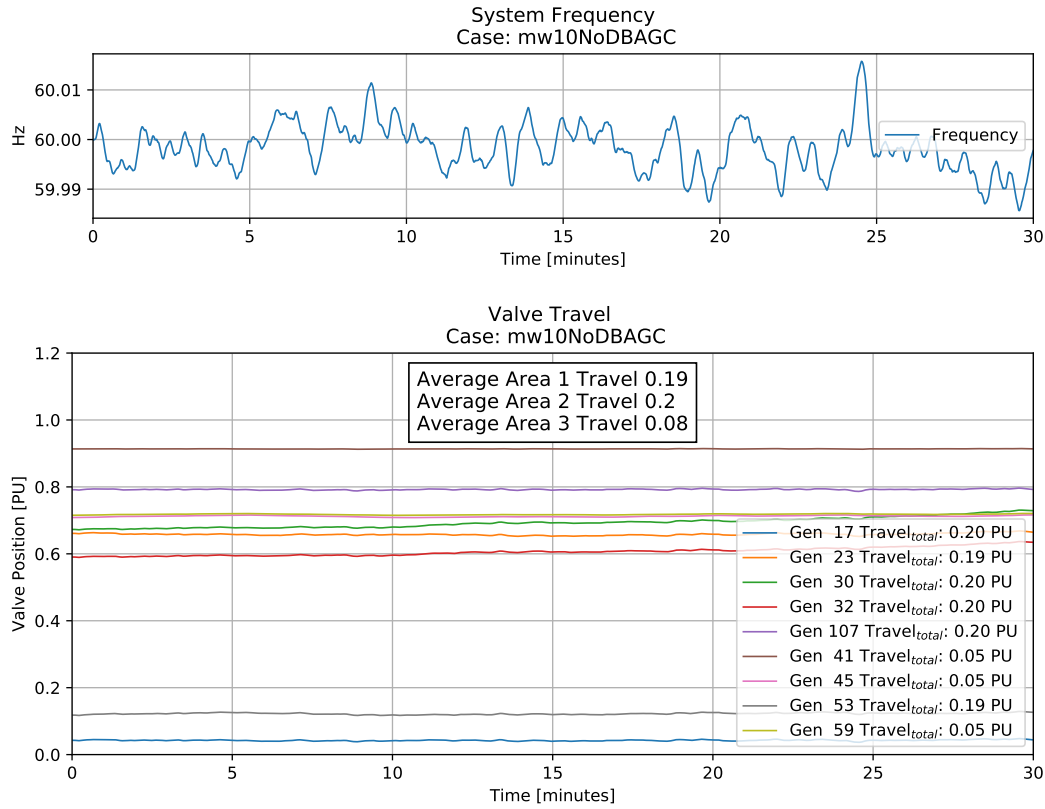


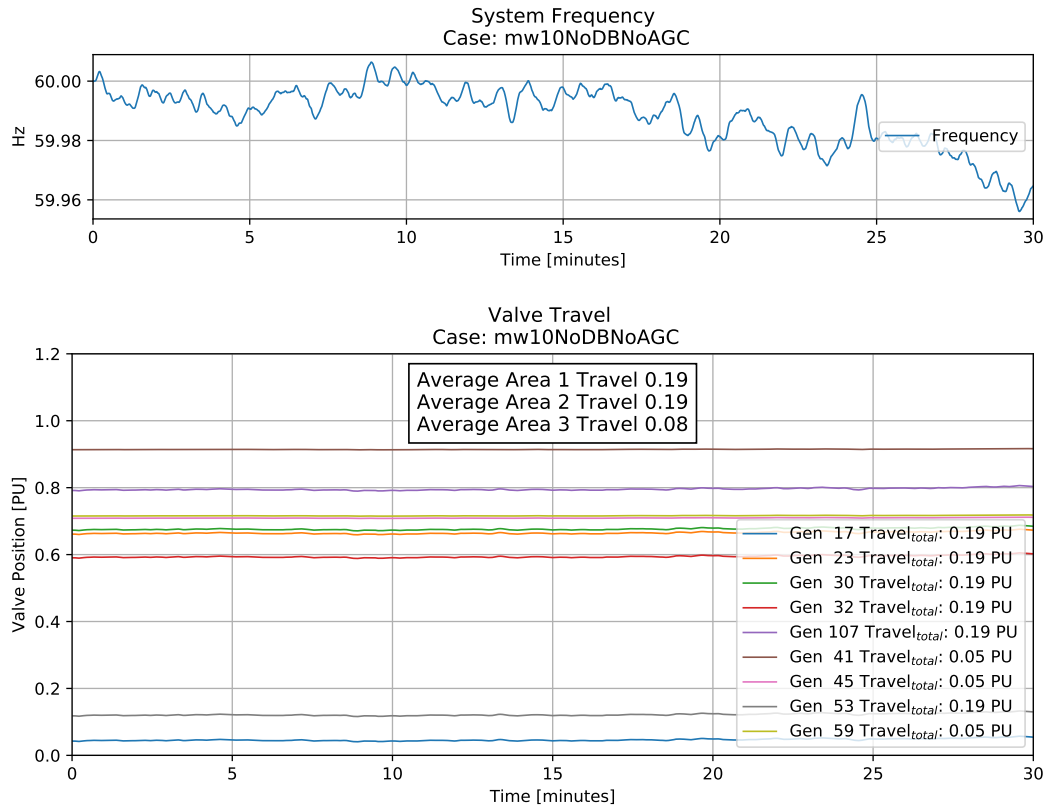
Table 1: MiniWECC noise results.

Generator	Valve Travel [PU]							
	No DB	No DB No AGC	Step	Step No AGC	No-Step	No-Step No AGC	N-L Droop	N-L Droop No AGC
17	0.20	0.19	1.87	6.17	0.34	0.18	0.22	0.28
23	0.19	0.19	1.97	6.17	0.38	0.18	0.24	0.28
30	0.20	0.19	1.98	6.17	0.39	0.18	0.27	0.28
32	0.20	0.19	1.97	6.21	0.38	0.18	0.25	0.28
107	0.20	0.19	1.85	6.21	0.33	0.18	0.21	0.28
41	0.05	0.05	0.42	1.40	0.08	0.04	0.05	0.07
45	0.05	0.05	0.59	1.40	0.26	0.04	0.12	0.07
53	0.19	0.19	2.03	6.21	0.41	0.18	0.26	0.28
59	0.05	0.05	0.53	1.40	0.18	0.04	0.09	0.07
Total:	1.33	1.29	13.21	41.34	2.75	1.20	1.71	1.89

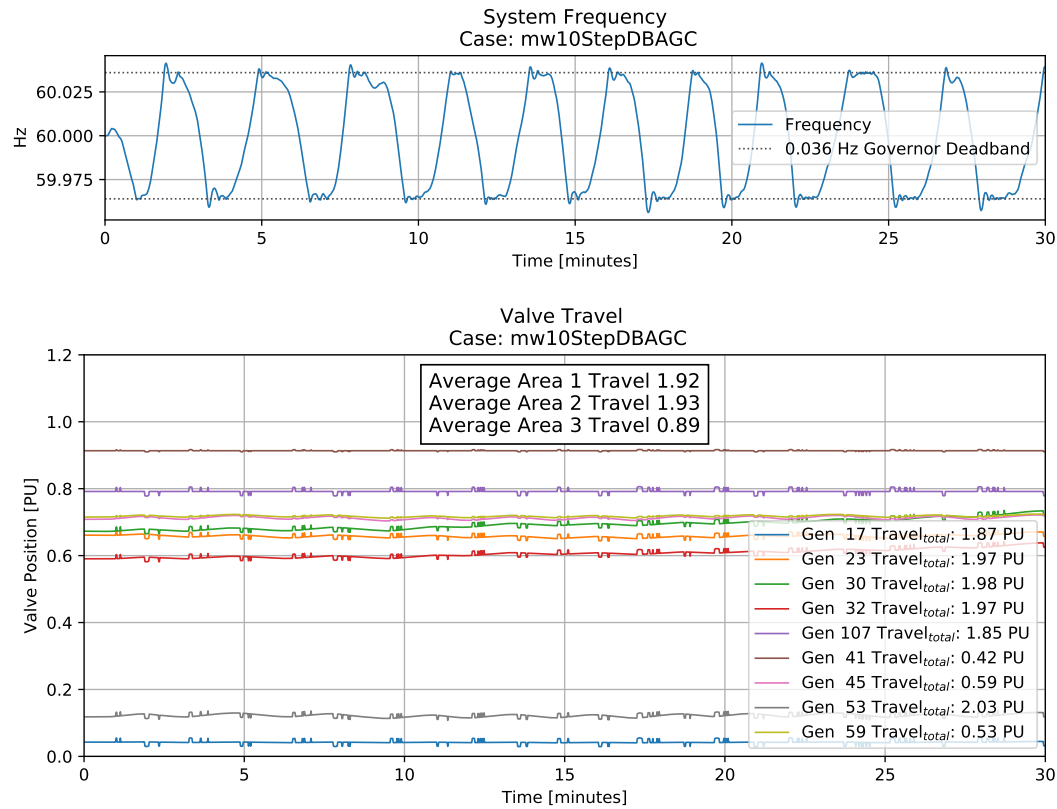
mw10NoDB With AGC



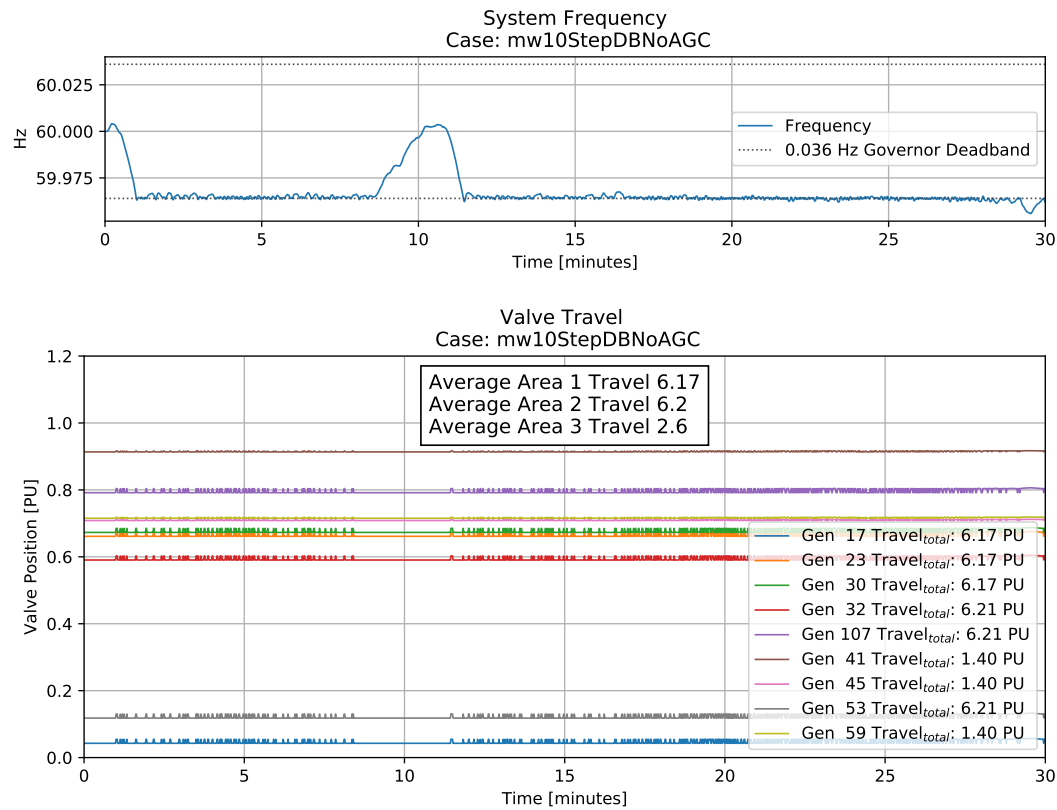
mw10NoDB With No AGC



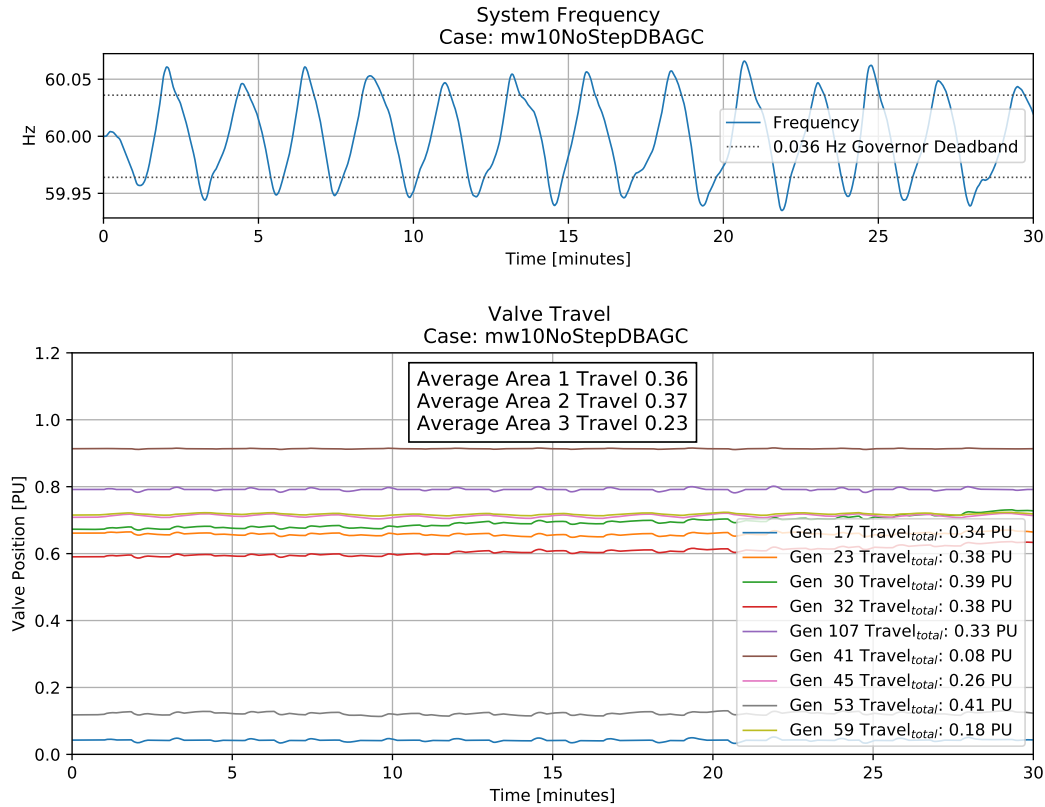
**mw10StepDB With AGC**



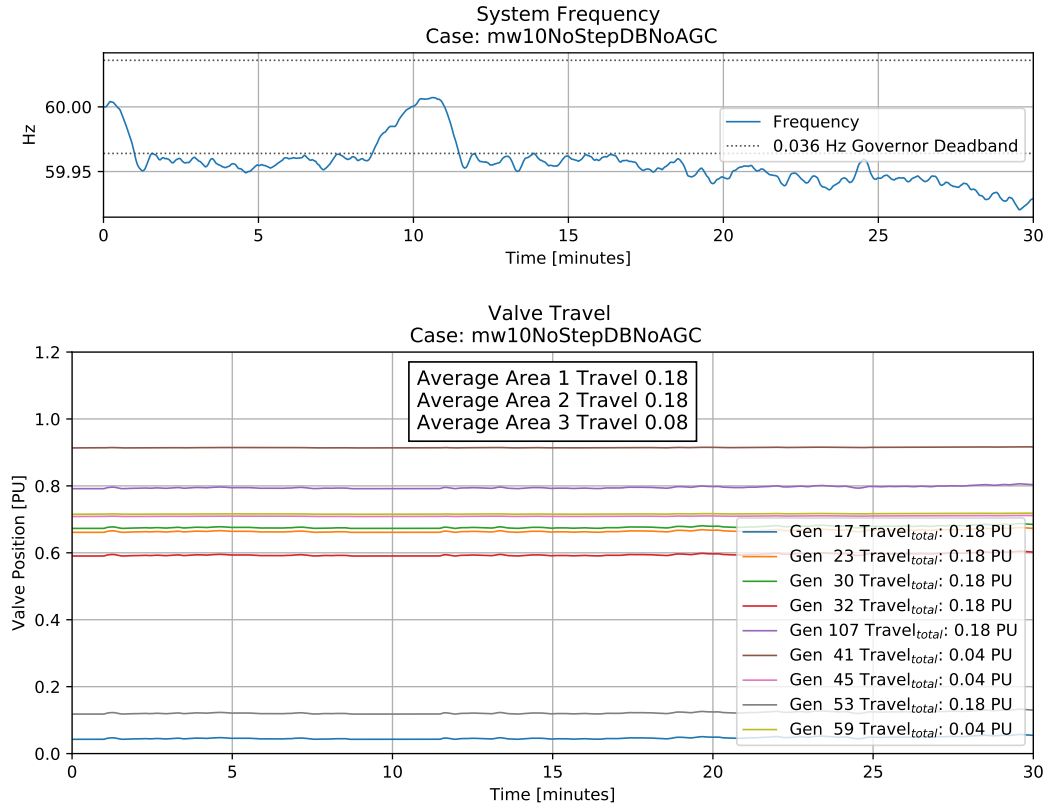
**mw10StepDB With No AGC**



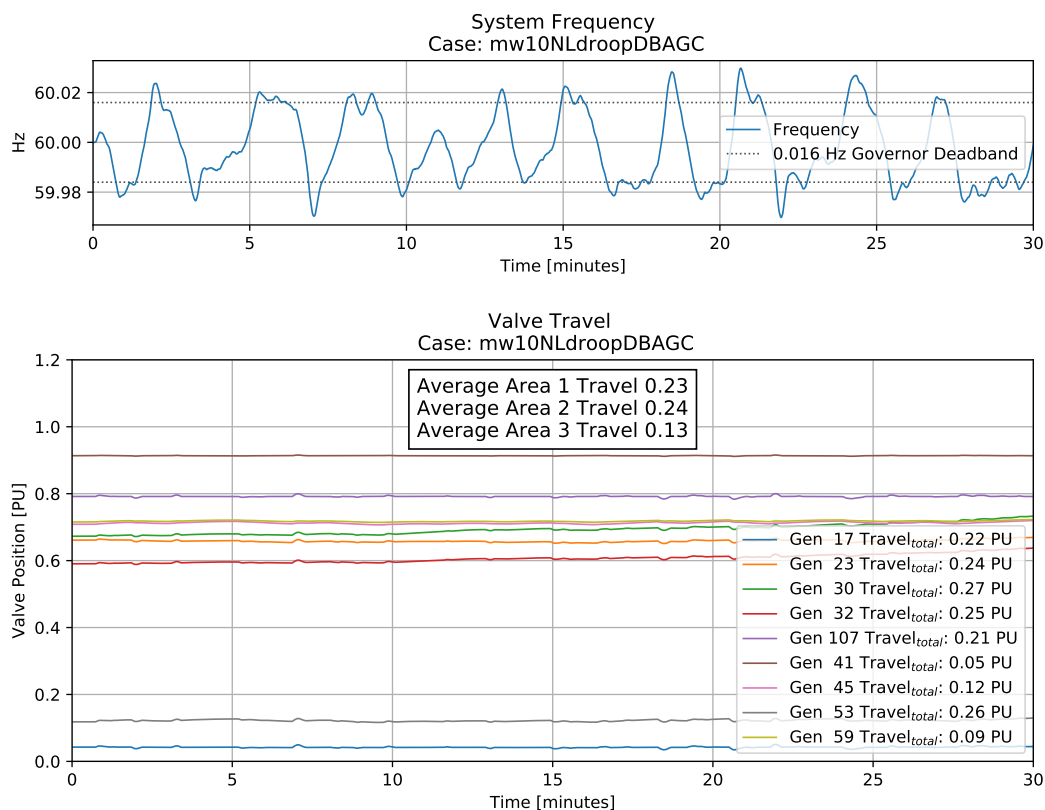
mw10NoStepDB With AGC



mw10NoStepDB With No AGC



## mw10NLdroopDB With AGC



## mw10NLdroopDB With No AGC

