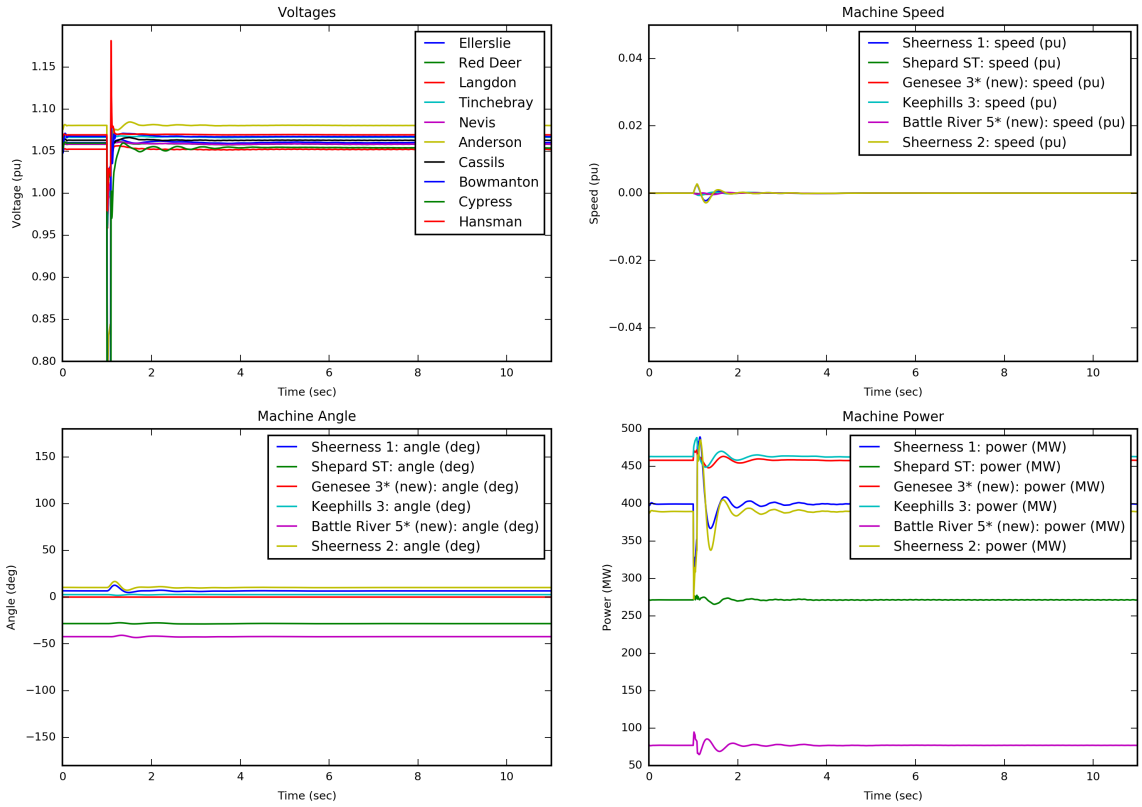
Attachment F

Transient Simulation Results

Section: F-7

Figure 1



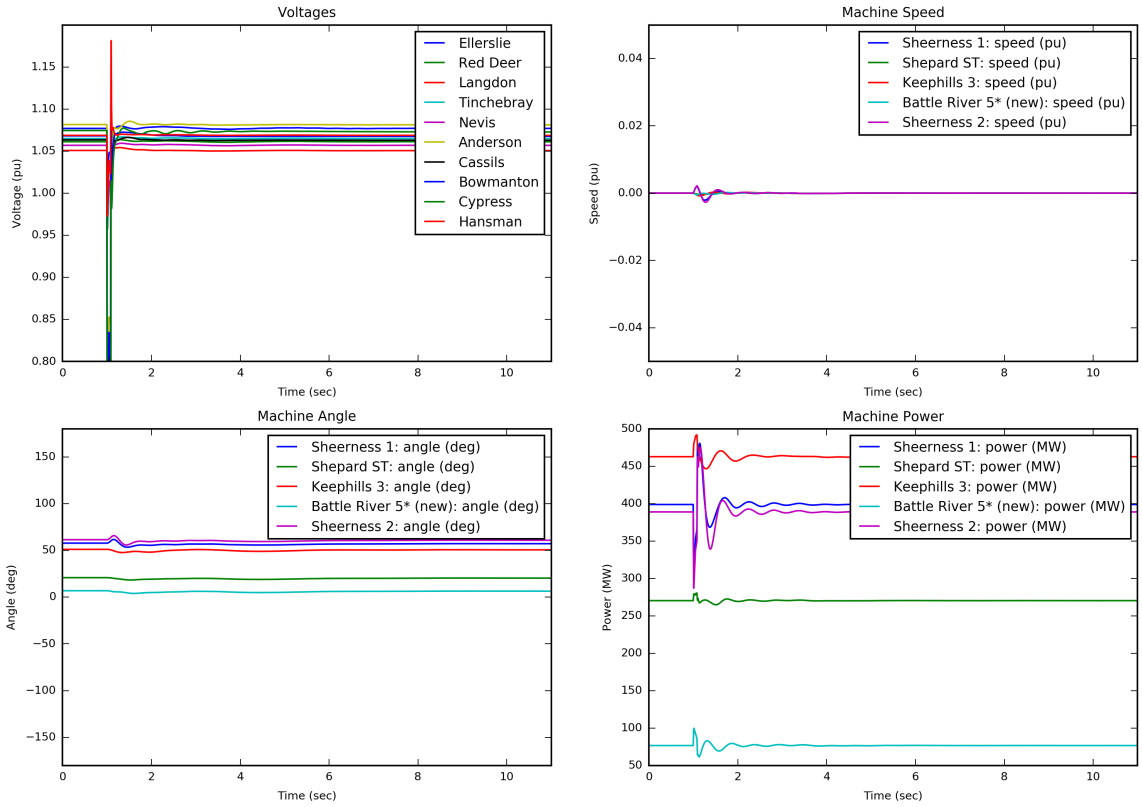
Case Description

- Study case: 2023 H4; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 1002L (Dome Empress - Jenner) near Dome Empress
- T = 1.0860 s: Opened near end breaker
- T = 1.1010 s: Tripped 1002L (Dome Empress - Jenner)
- T = 1.1010 s: Fault is cleared

Figure 2



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

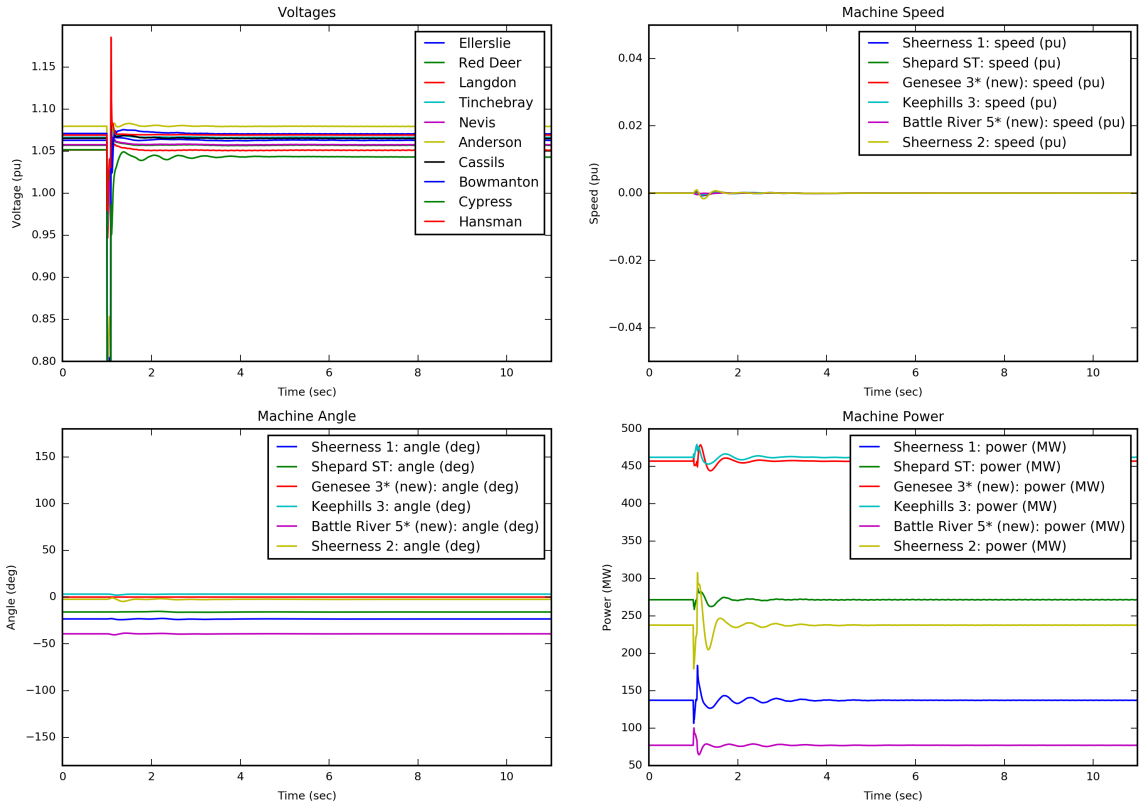
— T = 1.0020 s: Applied 3-ph fault on 1002L (Dome Empress - Jenner) near Dome Empress

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 1002L (Dome Empress - Jenner)

— T = 1.1010 s: Fault is cleared

Figure 3



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

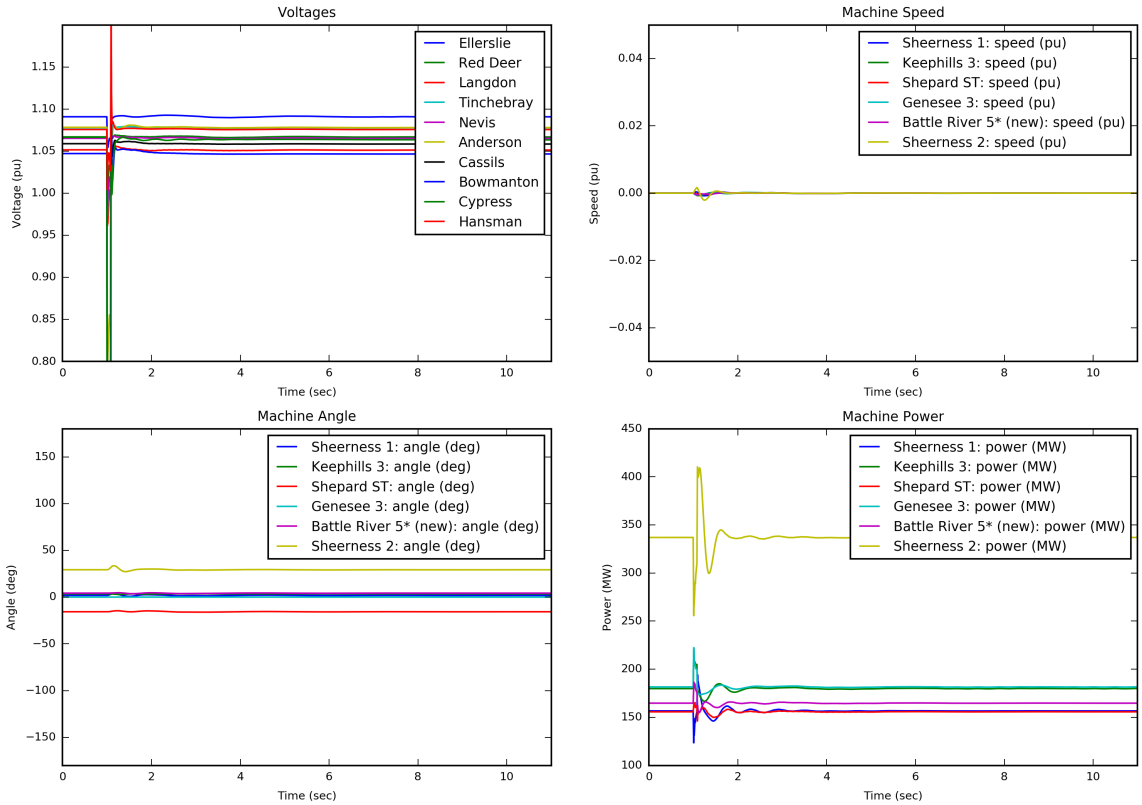
— T = 1.0020 s: Applied 3-ph fault on 1002L (Dome Empress - Jenner) near Dome Empress

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 1002L (Dome Empress - Jenner)

— T = 1.1010 s: Fault is cleared

Figure 4



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

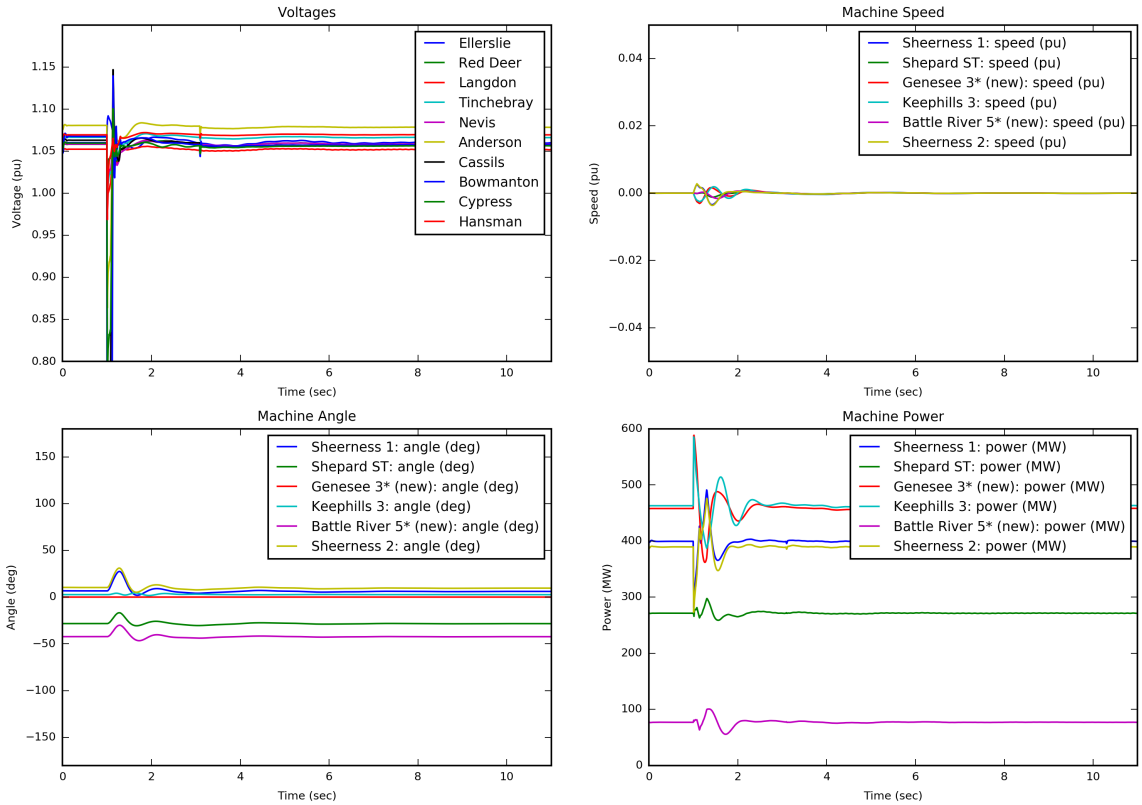
— T = 1.0020 s: Applied 3-ph fault on 1002L (Dome Empress - Jenner) near Dome Empress

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 1002L (Dome Empress - Jenner)

— T = 1.1010 s: Fault is cleared

Figure 5



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

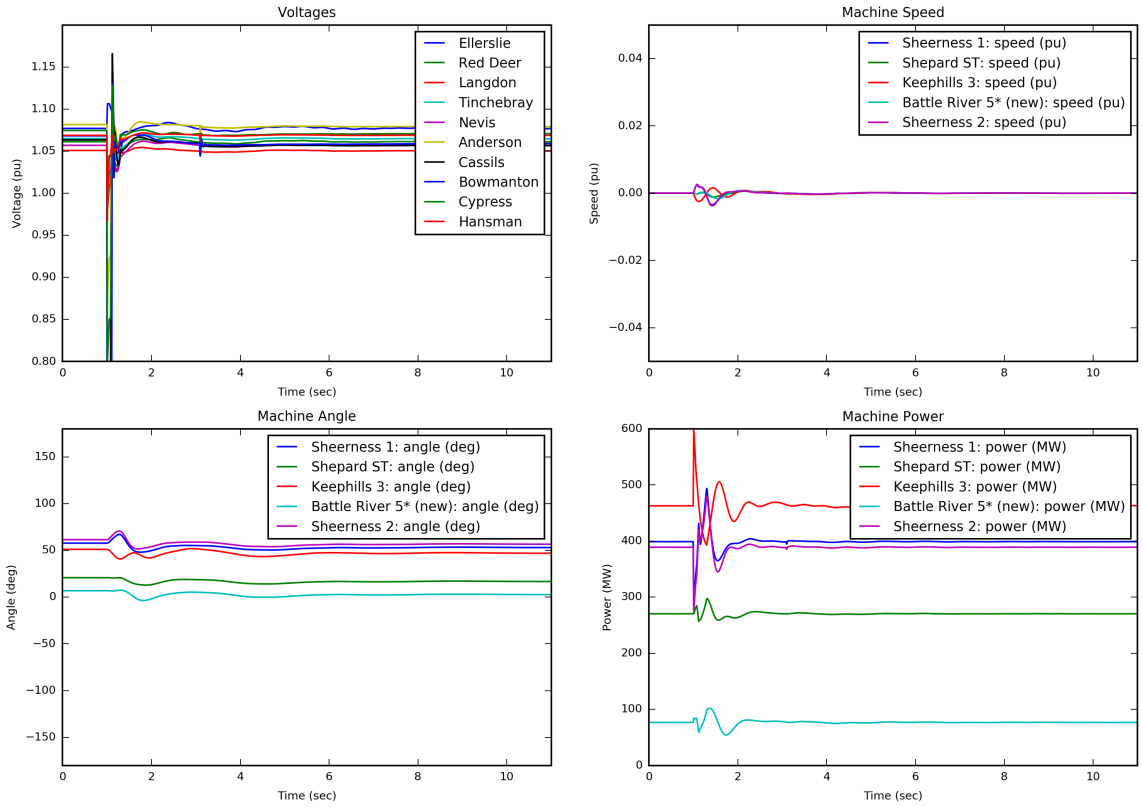
— T = 1.0020 s: Applied 3-ph fault on 1034L (Cassils - Bowmanton) near Bowmanton

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 1034L (Cassils - Bowmanton)

— T = 1.1010 s: Fault is cleared

Figure 6



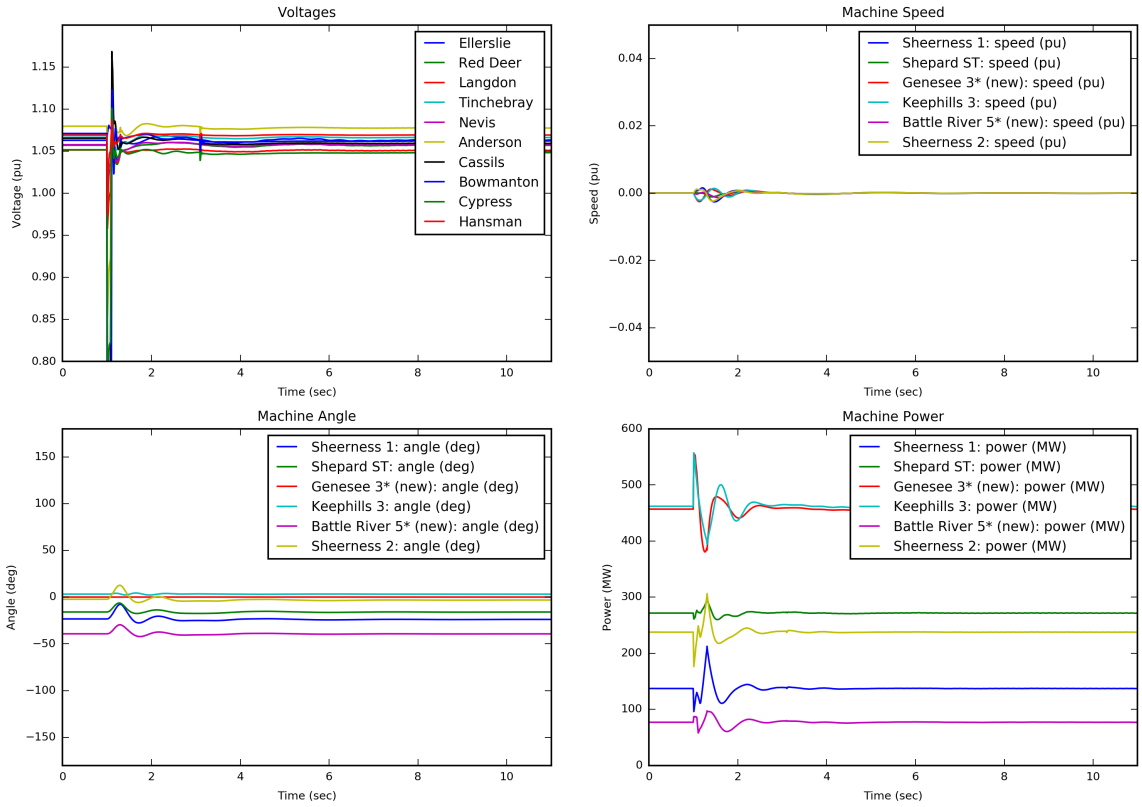
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 1034L (Cassils - Bowmanton) near Bowmanton
- T = 1.0860 s: Opened near end breaker
- T = 1.1010 s: Tripped 1034L (Cassils - Bowmanton)
- T = 1.1010 s: Fault is cleared

Figure 7



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

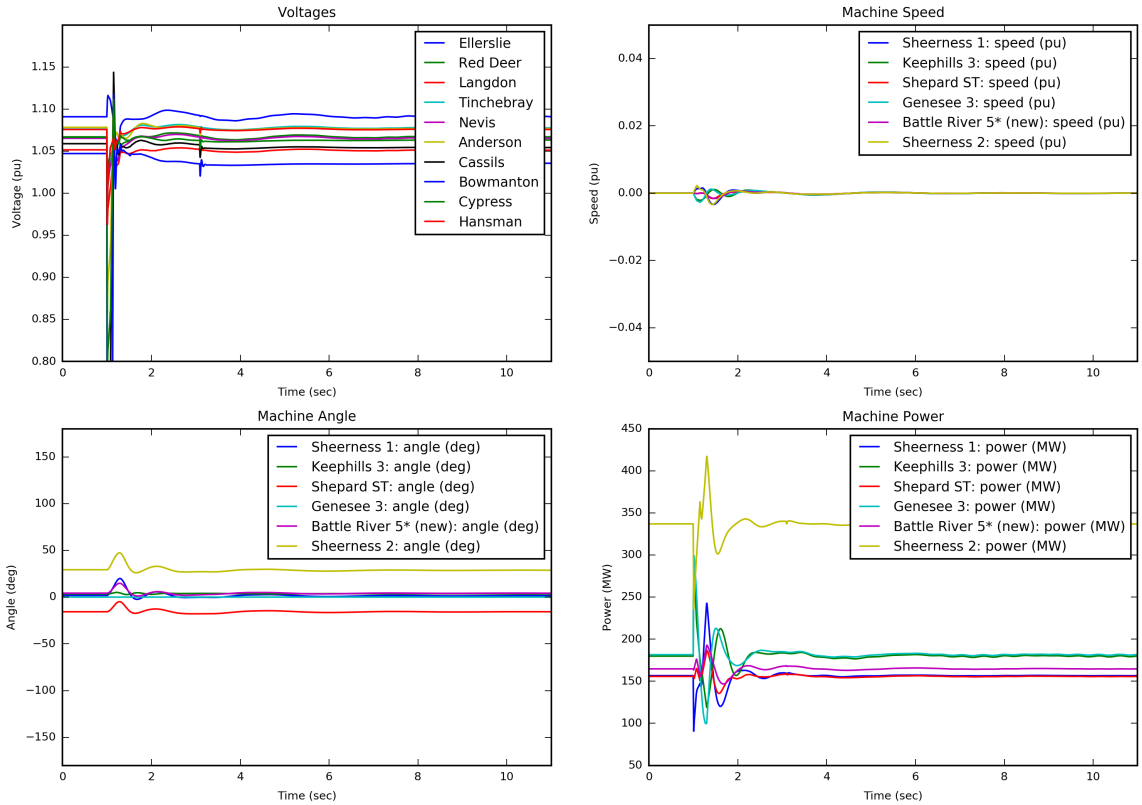
— T = 1.0020 s: Applied 3-ph fault on 1034L (Cassils - Bowmanton) near Bowmanton

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 1034L (Cassils - Bowmanton)

— T = 1.1010 s: Fault is cleared

Figure 8



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

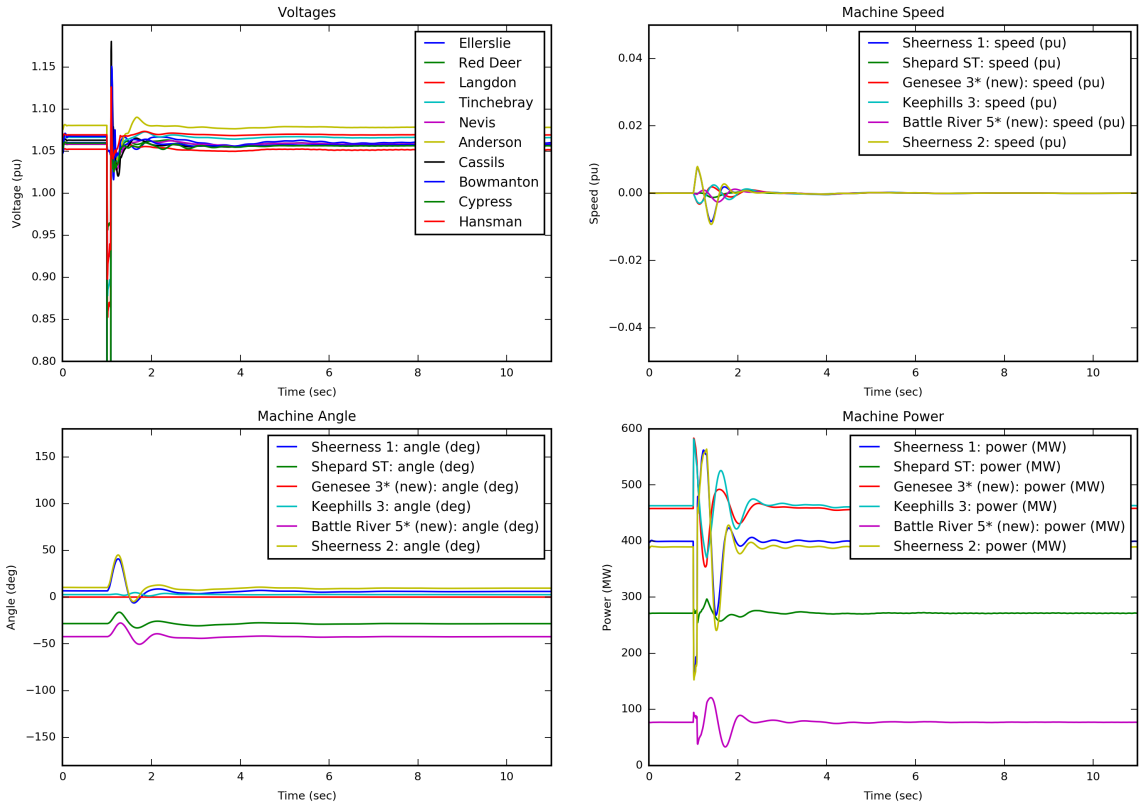
— T = 1.0020 s: Applied 3-ph fault on 1034L (Cassils - Bowmanton) near Bowmanton

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 1034L (Cassils - Bowmanton)

— T = 1.1010 s: Fault is cleared

Figure 9



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

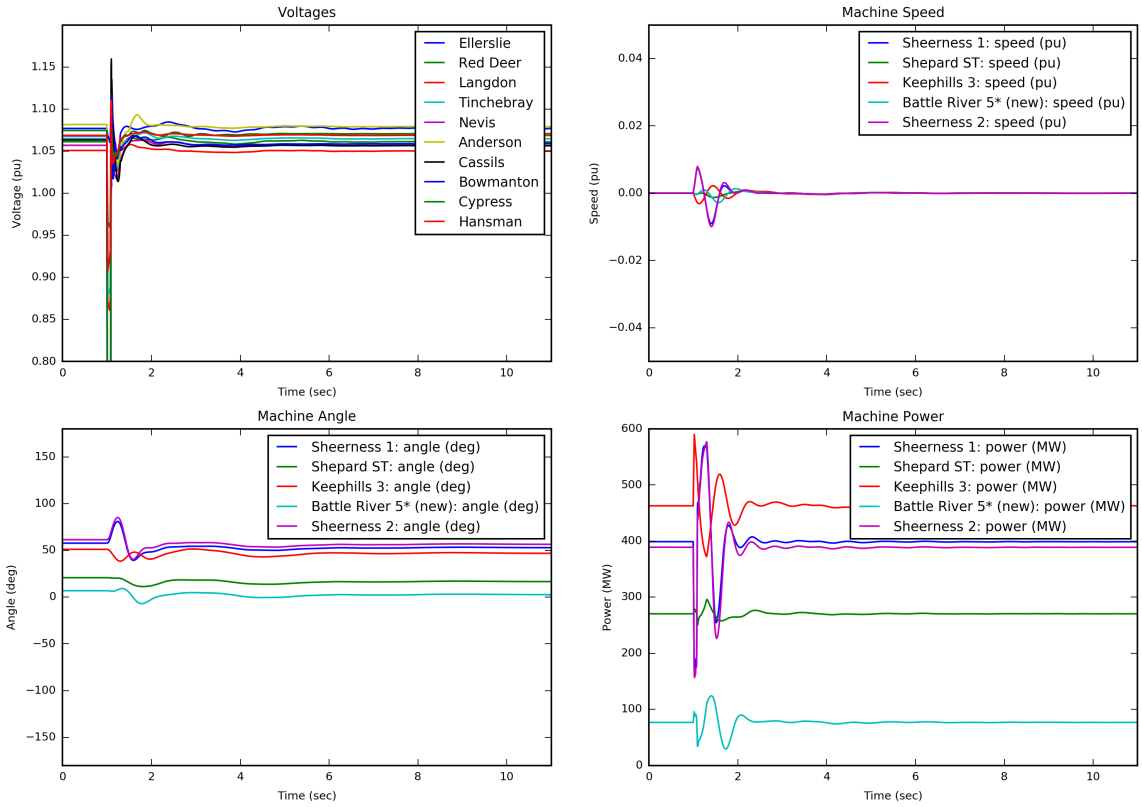
— T = 1.0020 s: Applied 3-ph fault on 1034L (Bowmanton - Cassils) near Cassils

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 1034L (Bowmanton - Cassils)

— T = 1.1010 s: Fault is cleared

Figure 10



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

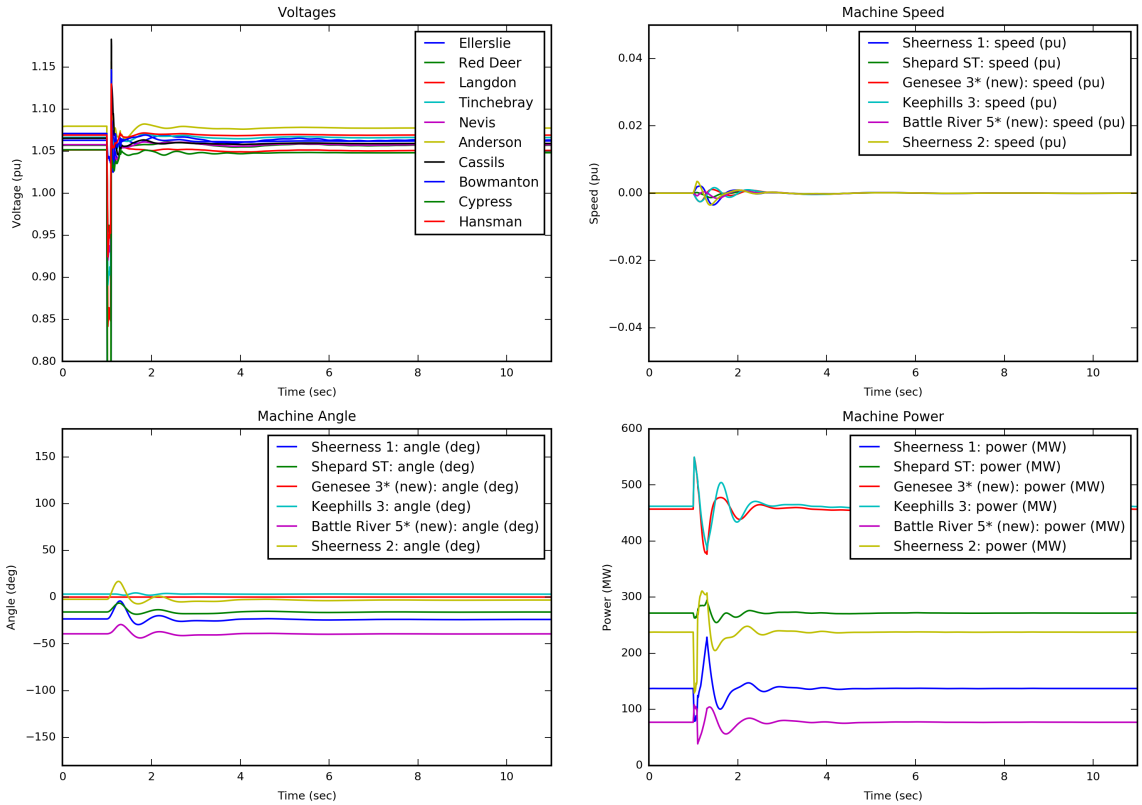
— T = 1.0020 s: Applied 3-ph fault on 1034L (Bowmanton - Cassils) near Cassils

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 1034L (Bowmanton - Cassils)

— T = 1.1010 s: Fault is cleared

Figure 11



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

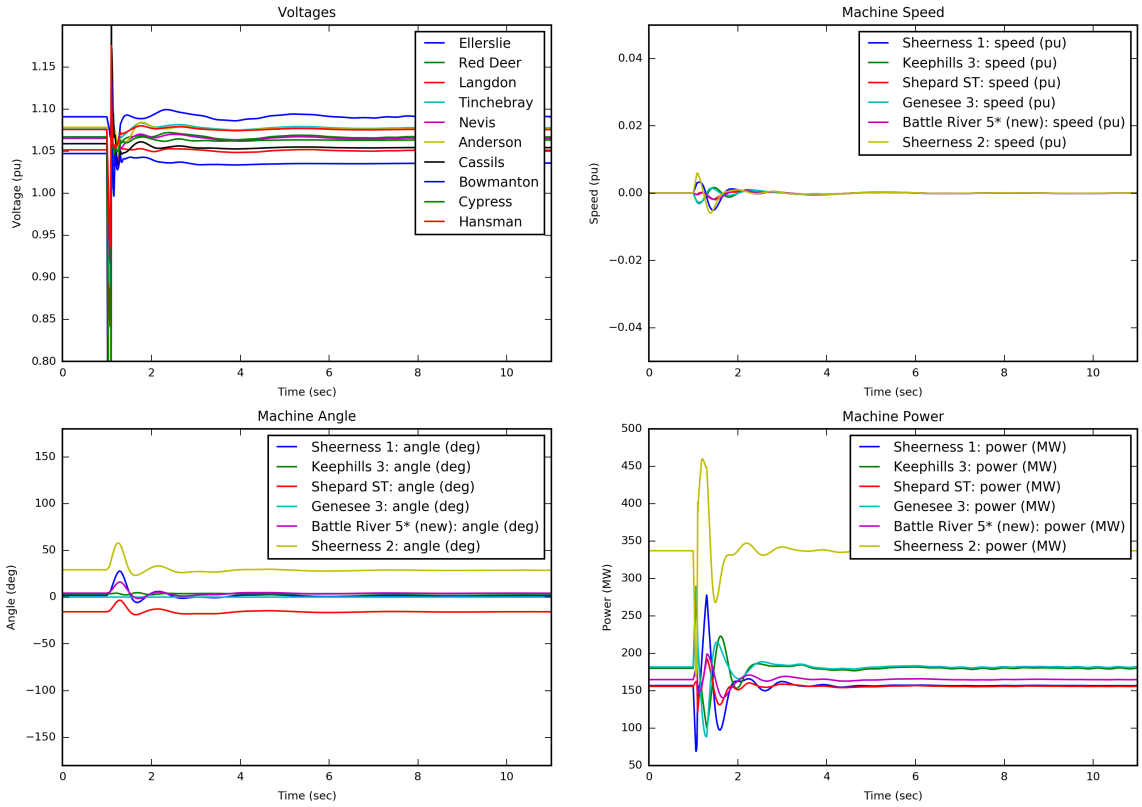
— T = 1.0020 s: Applied 3-ph fault on 1034L (Bowmanton - Cassils) near Cassils

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 1034L (Bowmanton - Cassils)

— T = 1.1010 s: Fault is cleared

Figure 12



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

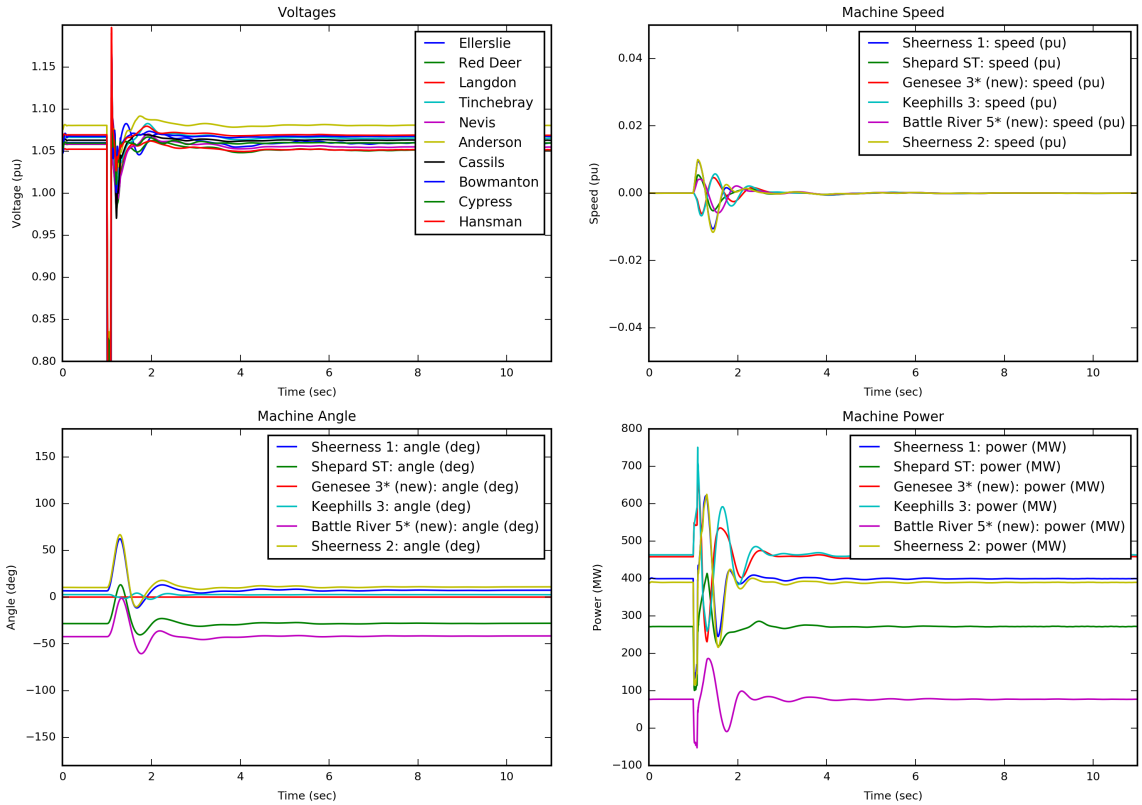
— T = 1.0020 s: Applied 3-ph fault on 1034L (Bowmanton - Cassils) near Cassils

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 1034L (Bowmanton - Cassils)

— T = 1.1010 s: Fault is cleared

Figure 13



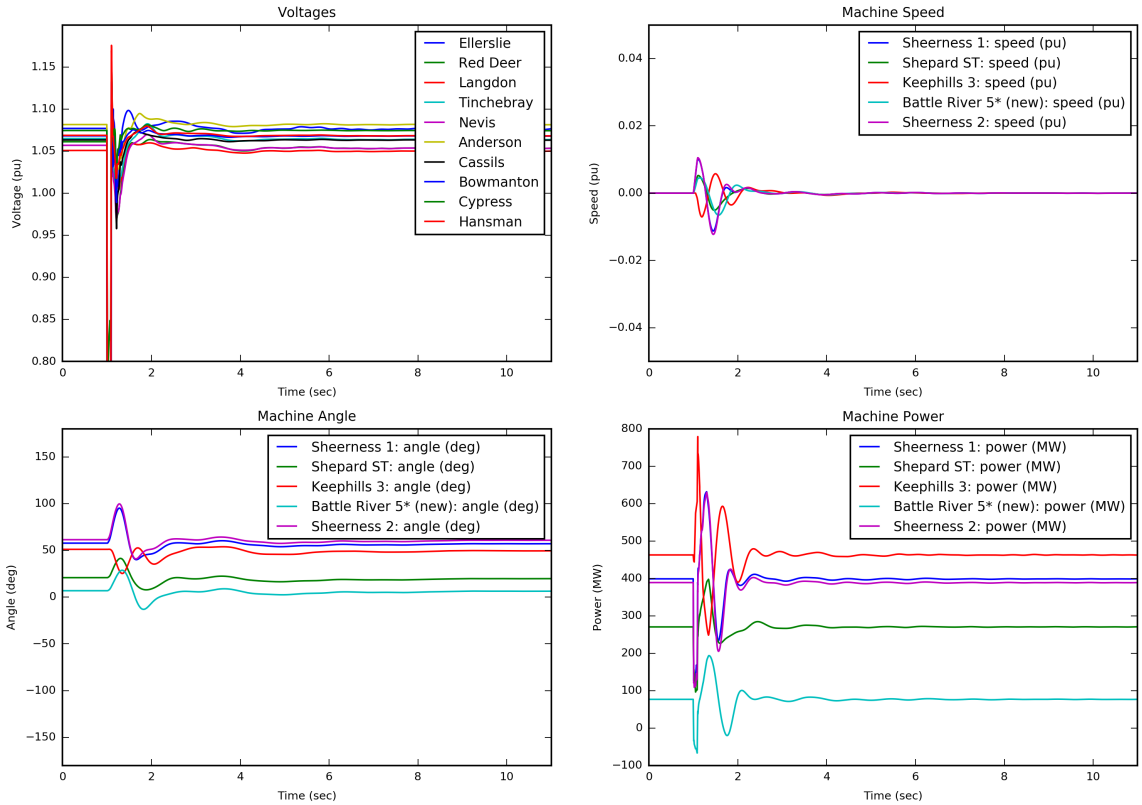
Case Description

- Study case: 2023 H4; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 900L (Benalto - Red Deer) near Red Deer
- T = 1.0920 s: Tripped 900L (Benalto - Red Deer)
- T = 1.0920 s: Fault is cleared
- T = 1.0920 s: Opened both breakers

Figure 14



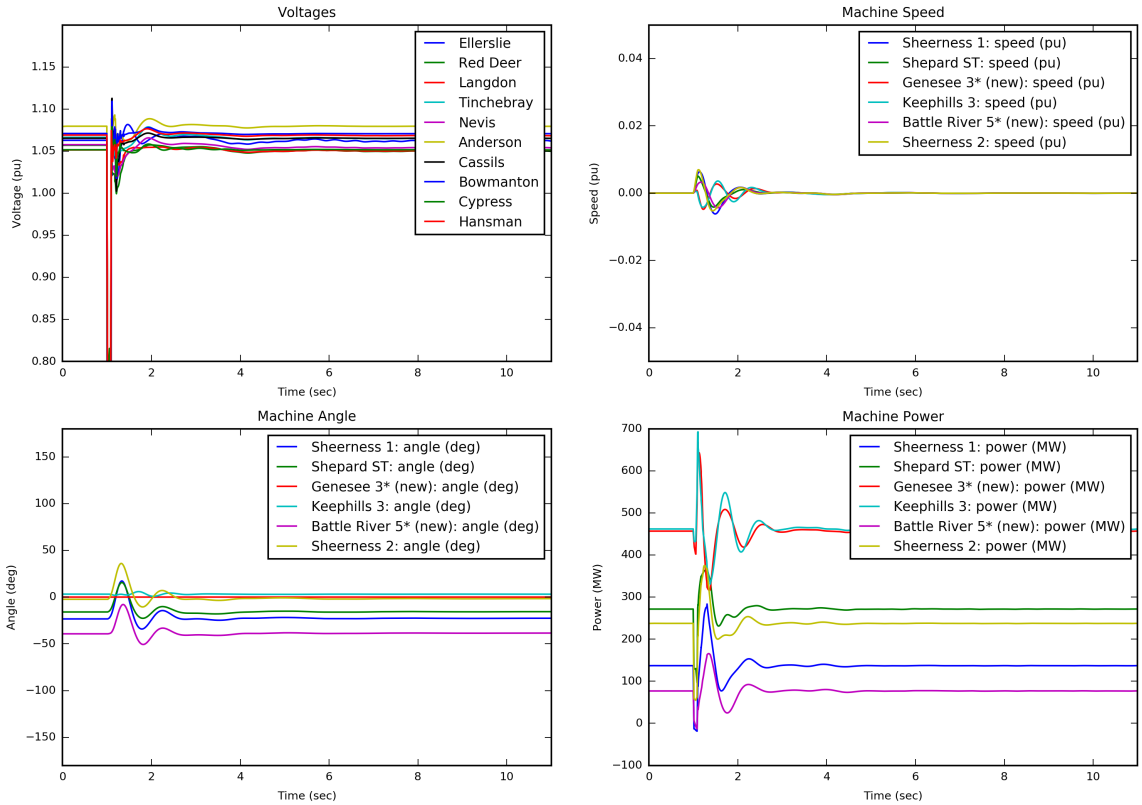
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 900L (Benalto - Red Deer) near Red Deer
- T = 1.0920 s: Tripped 900L (Benalto - Red Deer)
- T = 1.0920 s: Fault is cleared
- T = 1.0920 s: Opened both breakers

Figure 15



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

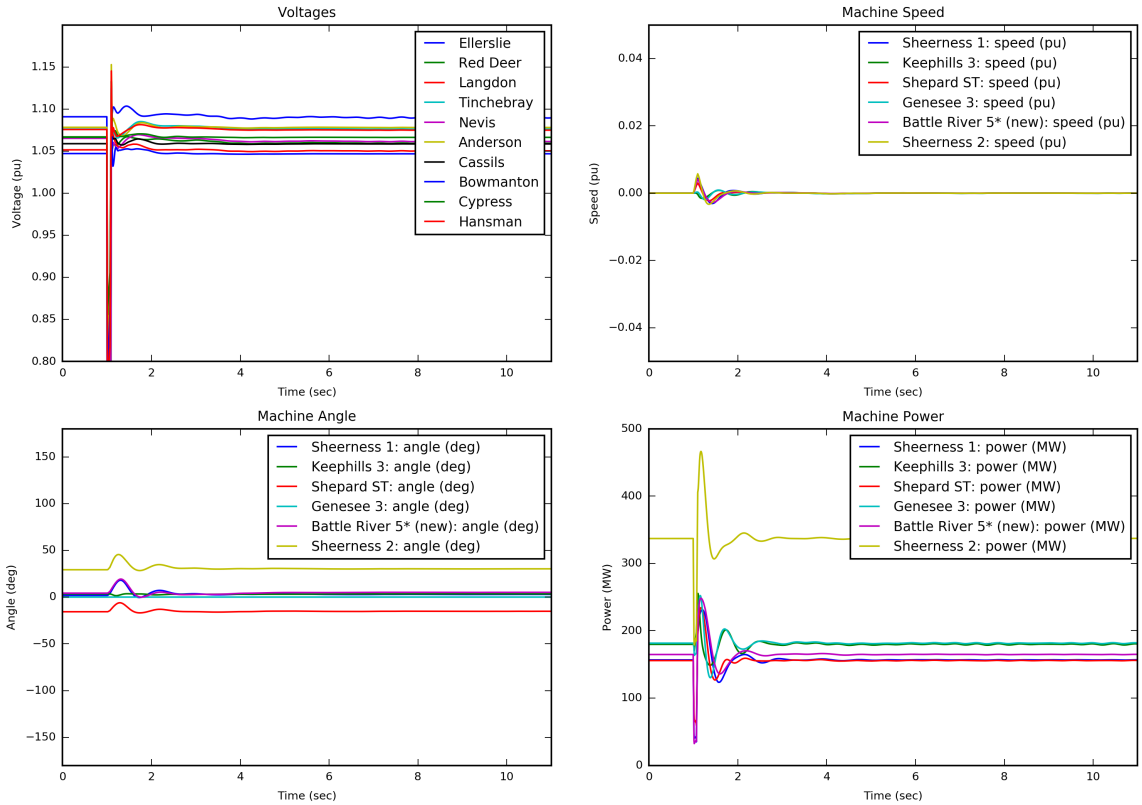
— T = 1.0020 s: Applied 3-ph fault on 900L (Benalto - Red Deer) near Red Deer

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 900L (Benalto - Red Deer)

— T = 1.0920 s: Fault is cleared

Figure 16



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

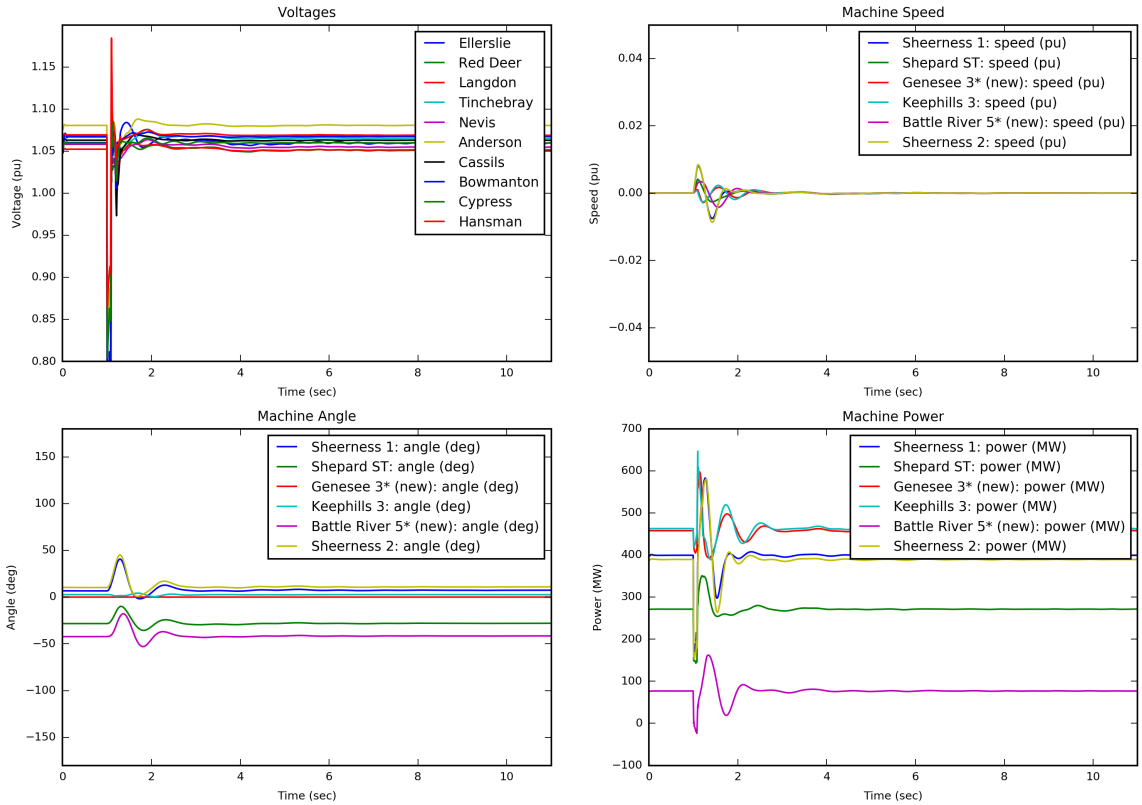
— T = 1.0020 s: Applied 3-ph fault on 900L (Benalto - Red Deer) near Red Deer

— T = 1.0920 s: Tripped 900L (Benalto - Red Deer)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 17



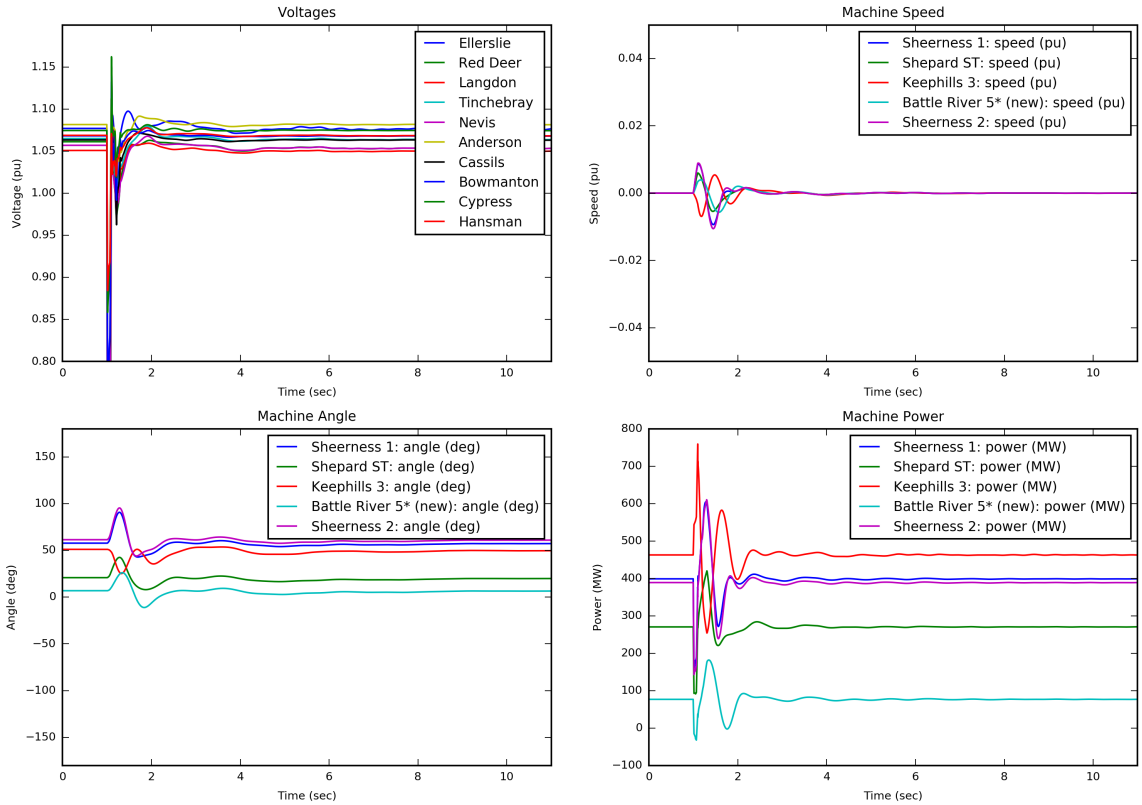
Case Description

- Study case: 2023 H4; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 900L (Red Deer - Benalto) near Benalto
- T = 1.0920 s: Tripped 900L (Red Deer - Benalto)
- T = 1.0920 s: Fault is cleared
- T = 1.0920 s: Opened both breakers

Figure 18



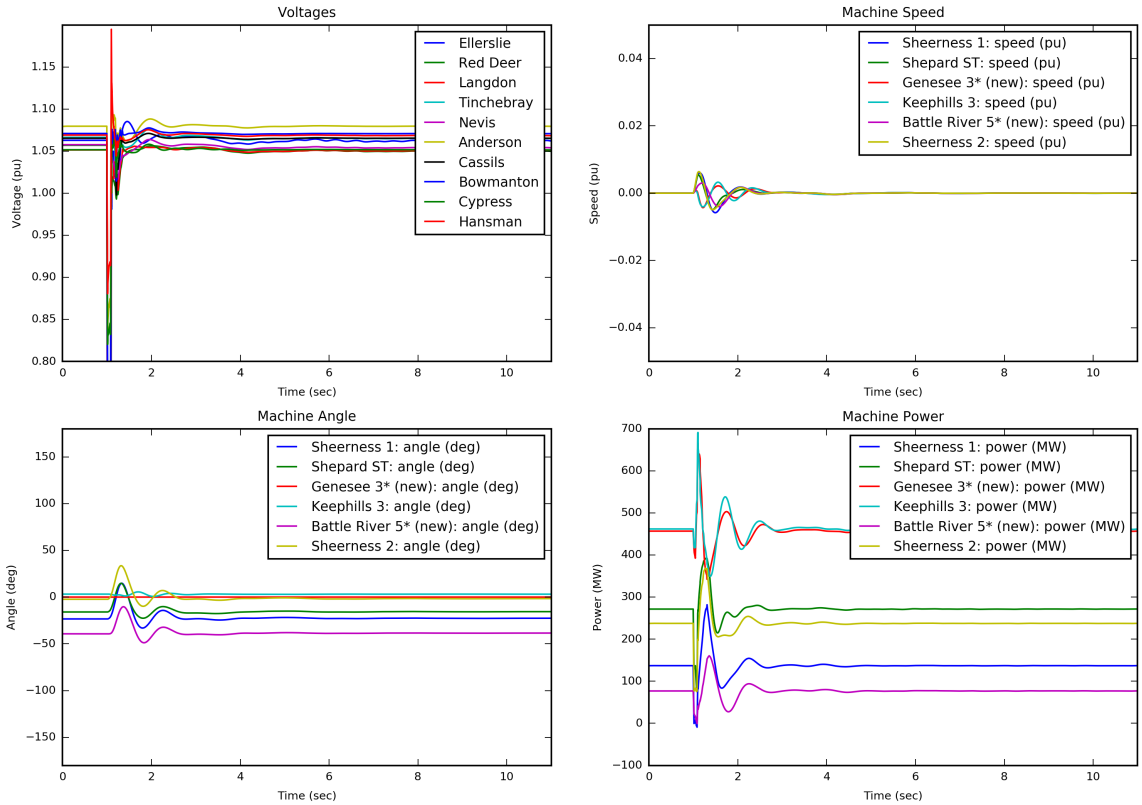
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 900L (Red Deer - Benalto) near Benalto
- T = 1.0920 s: Tripped 900L (Red Deer - Benalto)
- T = 1.0920 s: Fault is cleared
- T = 1.0920 s: Opened both breakers

Figure 19



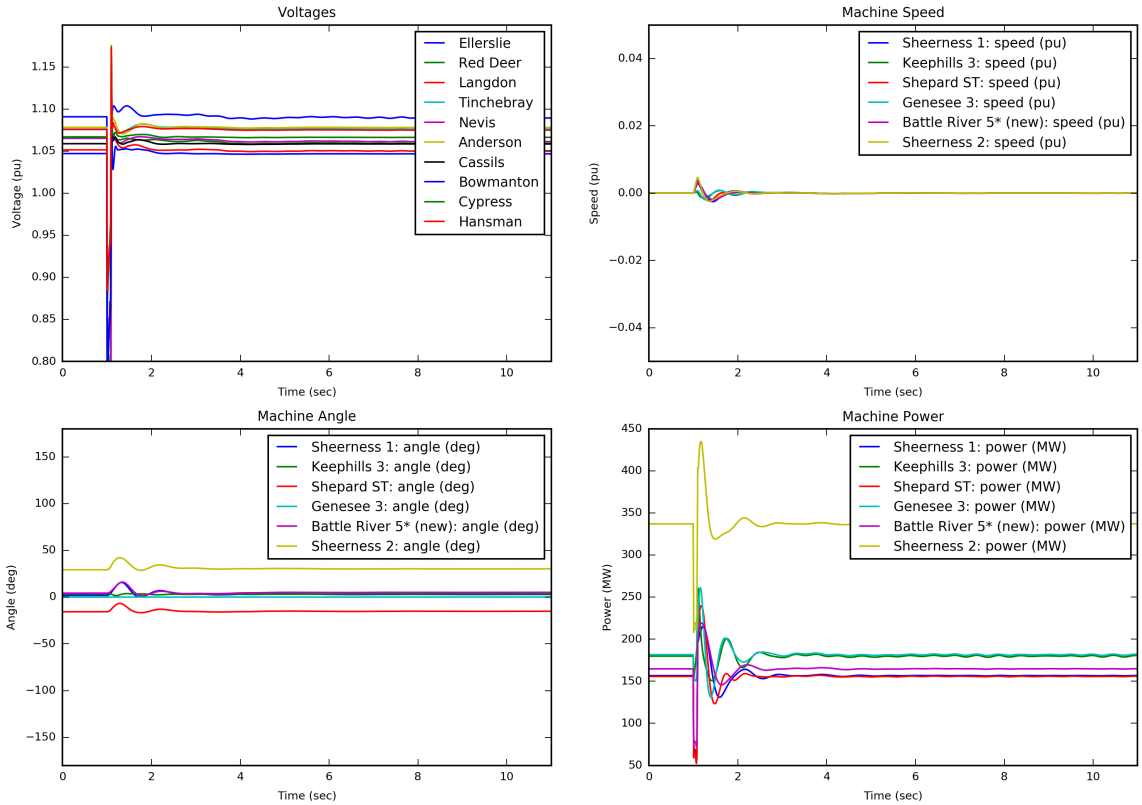
Case Description

- Study case: 2023 H6; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 900L (Red Deer - Benalto) near Benalto
- T = 1.0920 s: Tripped 900L (Red Deer - Benalto)
- T = 1.0920 s: Fault is cleared
- T = 1.0920 s: Opened both breakers

Figure 20



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

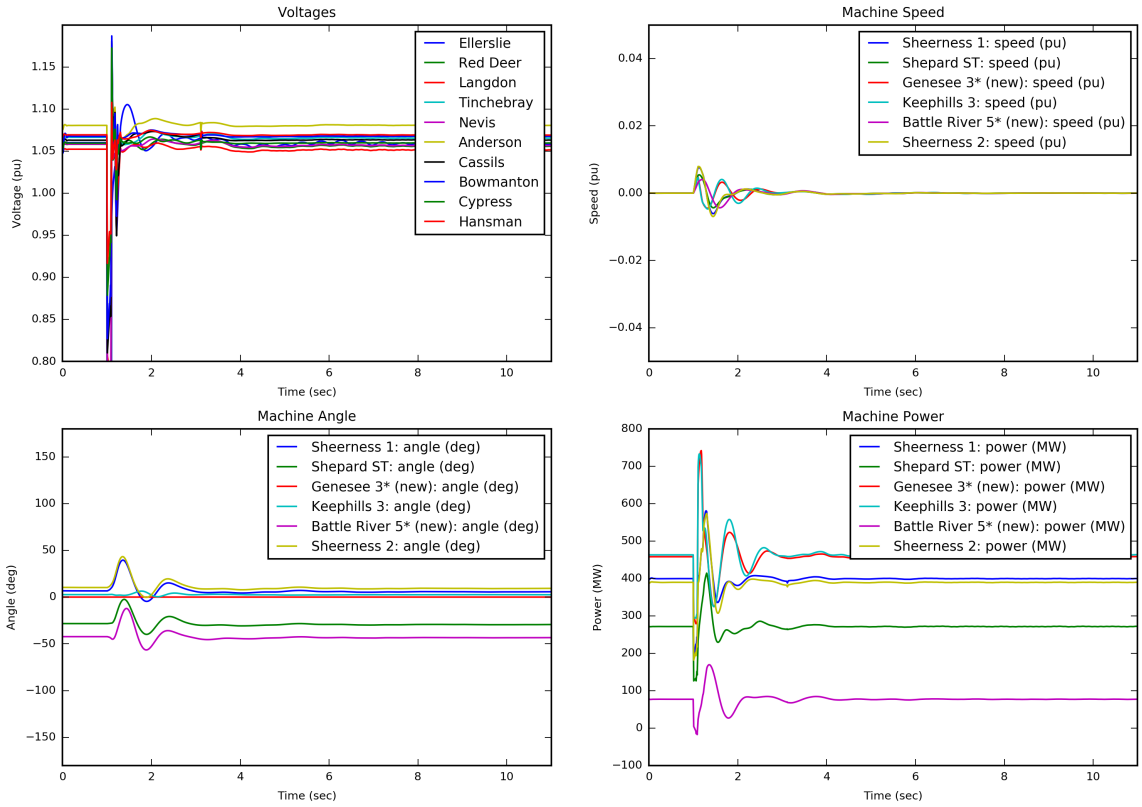
— T = 1.0020 s: Applied 3-ph fault on 900L (Red Deer - Benalto) near Benalto

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 900L (Red Deer - Benalto)

— T = 1.0920 s: Fault is cleared

Figure 21



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

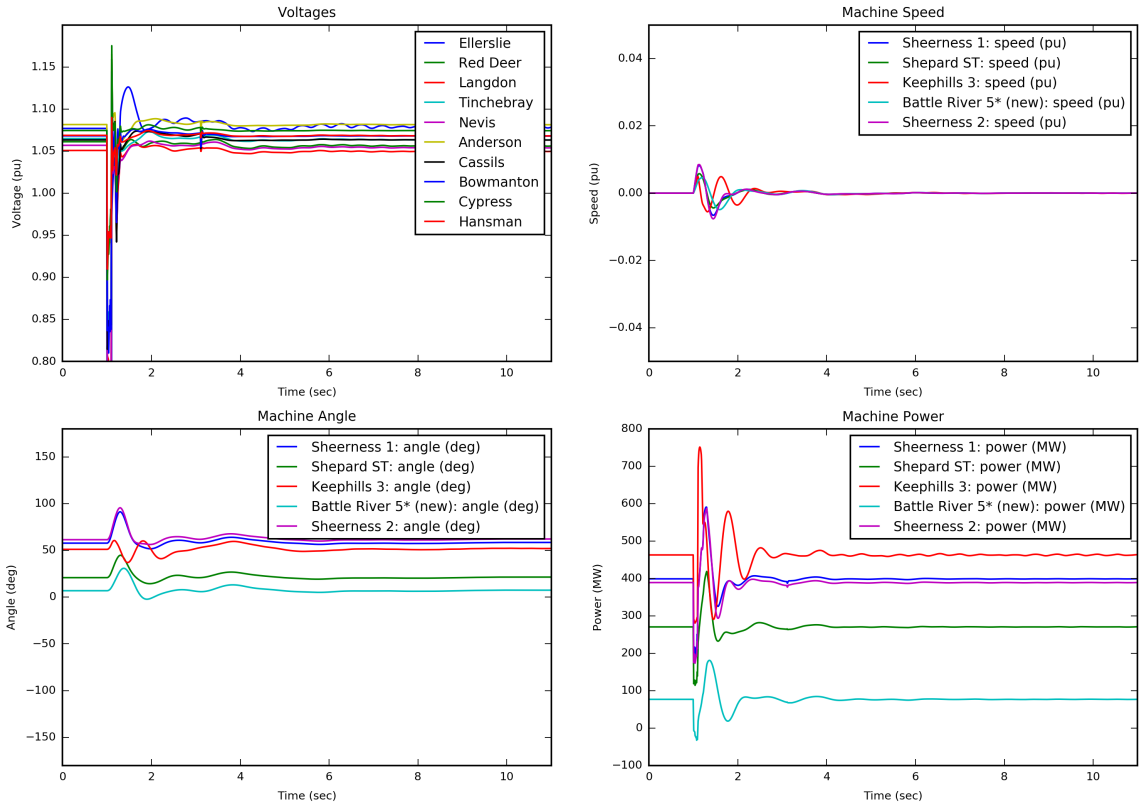
— T = 1.0020 s: Applied 3-ph fault at Saunders Lake

— T = 1.1010 s: Tripped 910L

— T = 1.1010 s: Tripped 914L

— T = 1.1010 s: Fault is cleared

Figure 22



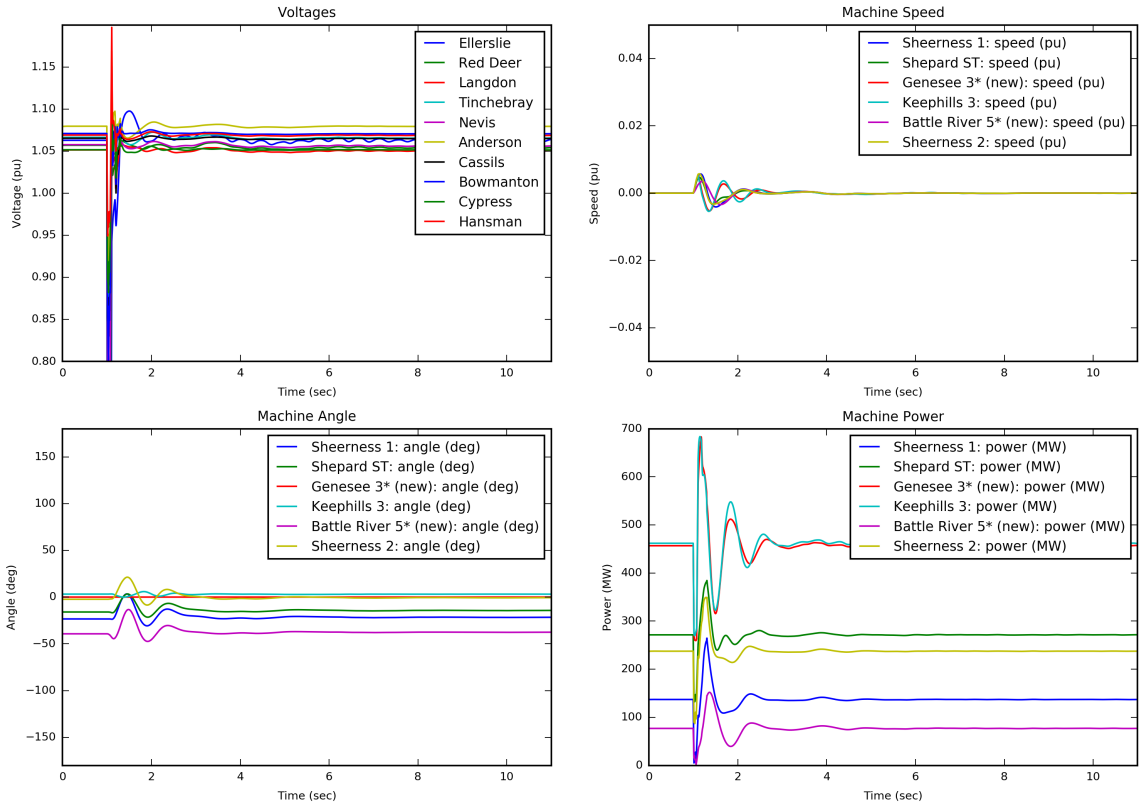
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault at Saunders Lake
- T = 1.1010 s: Tripped 910L
- T = 1.1010 s: Tripped 914L
- T = 1.1010 s: Fault is cleared

Figure 23



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

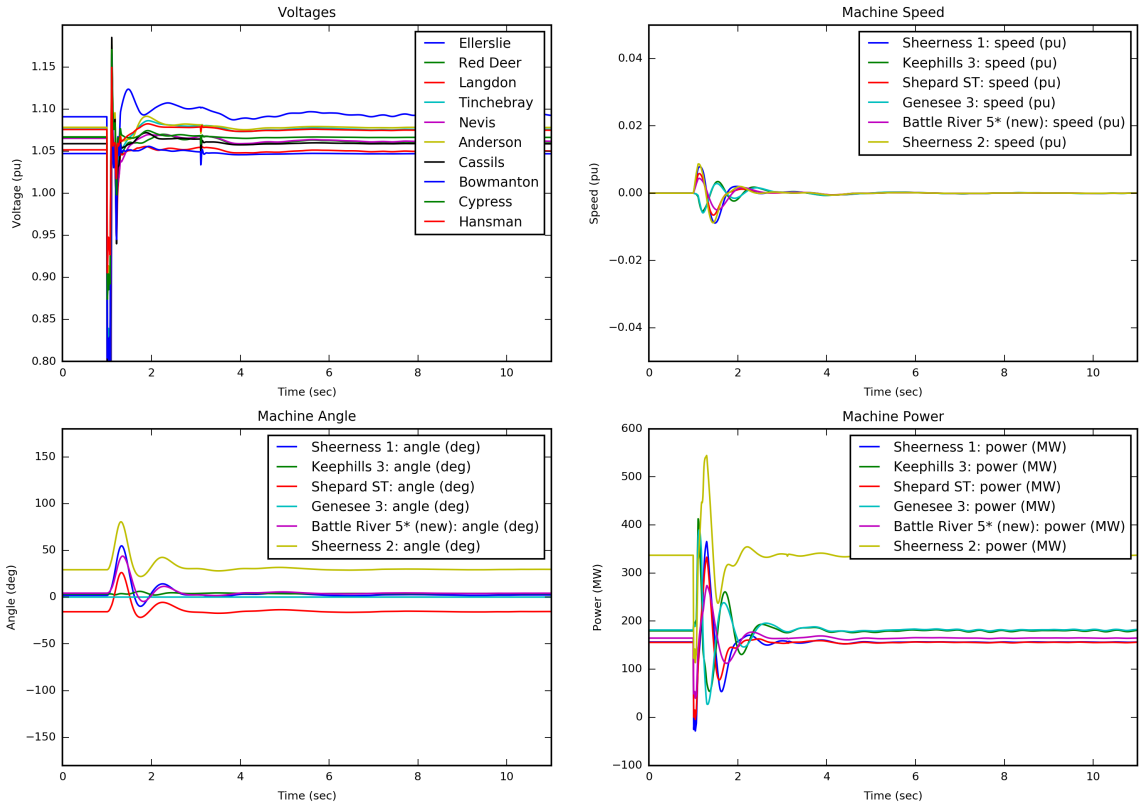
— T = 1.0020 s: Applied 3-ph fault at Saunders Lake

— T = 1.1010 s: Tripped 910L

— T = 1.1010 s: Tripped 914L

— T = 1.1010 s: Fault is cleared

Figure 24



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

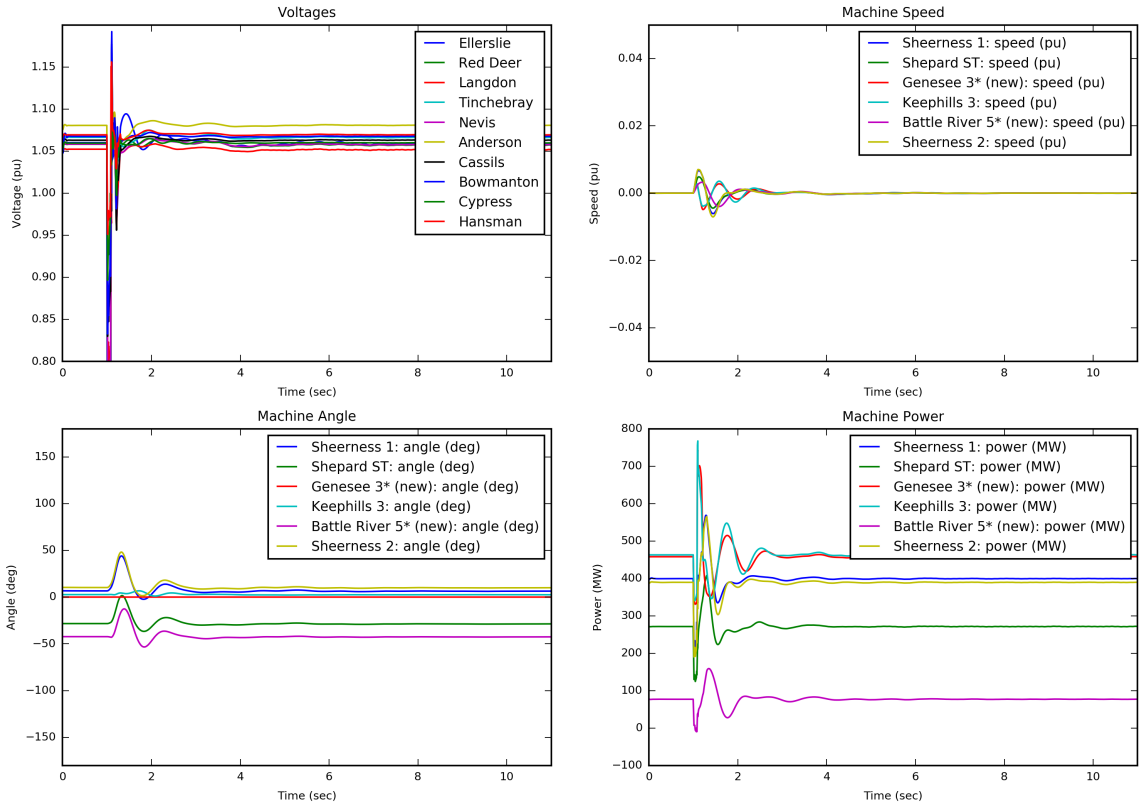
— T = 1.0020 s: Applied 3-ph fault at Saunders Lake

— T = 1.1010 s: Tripped 910L

— T = 1.1010 s: Tripped 914L

— T = 1.1010 s: Fault is cleared

Figure 25



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

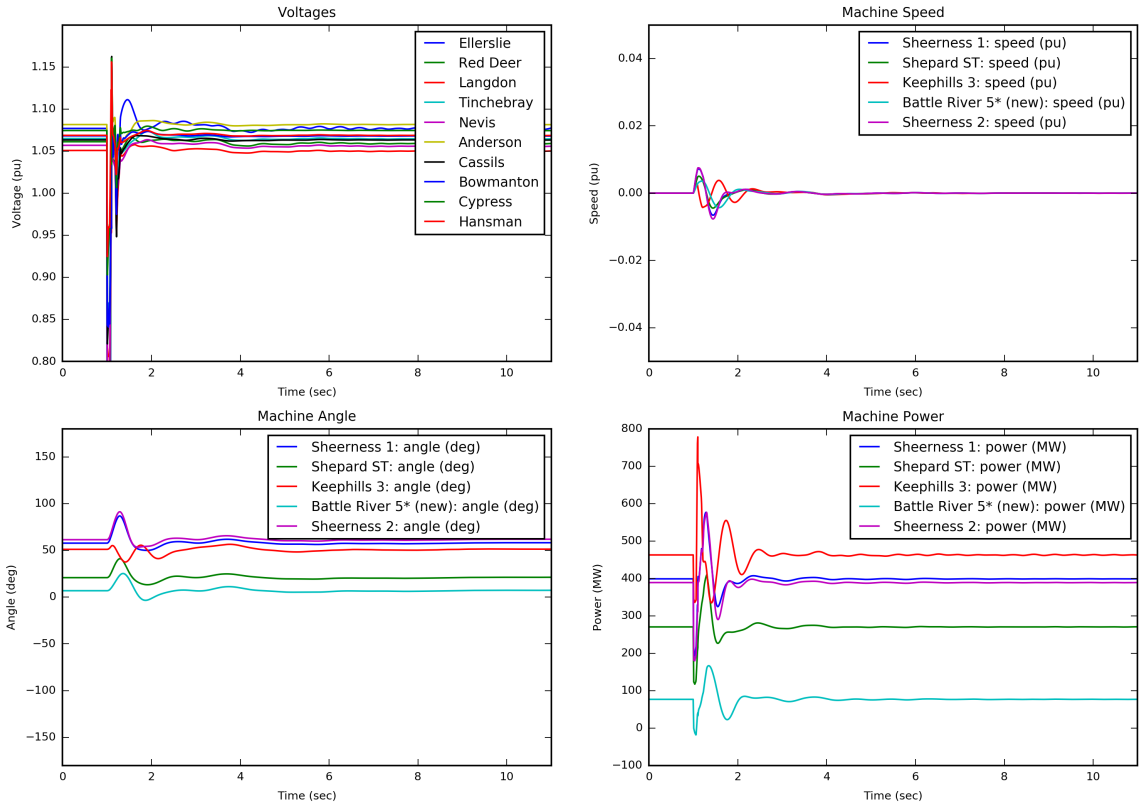
— T = 1.0020 s: Applied 3-ph fault on 910L (Saunders Lake - Wolf Creek) near Saunders Lake

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 910L (Saunders Lake - Wolf Creek)

— T = 1.1010 s: Fault is cleared

Figure 26



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

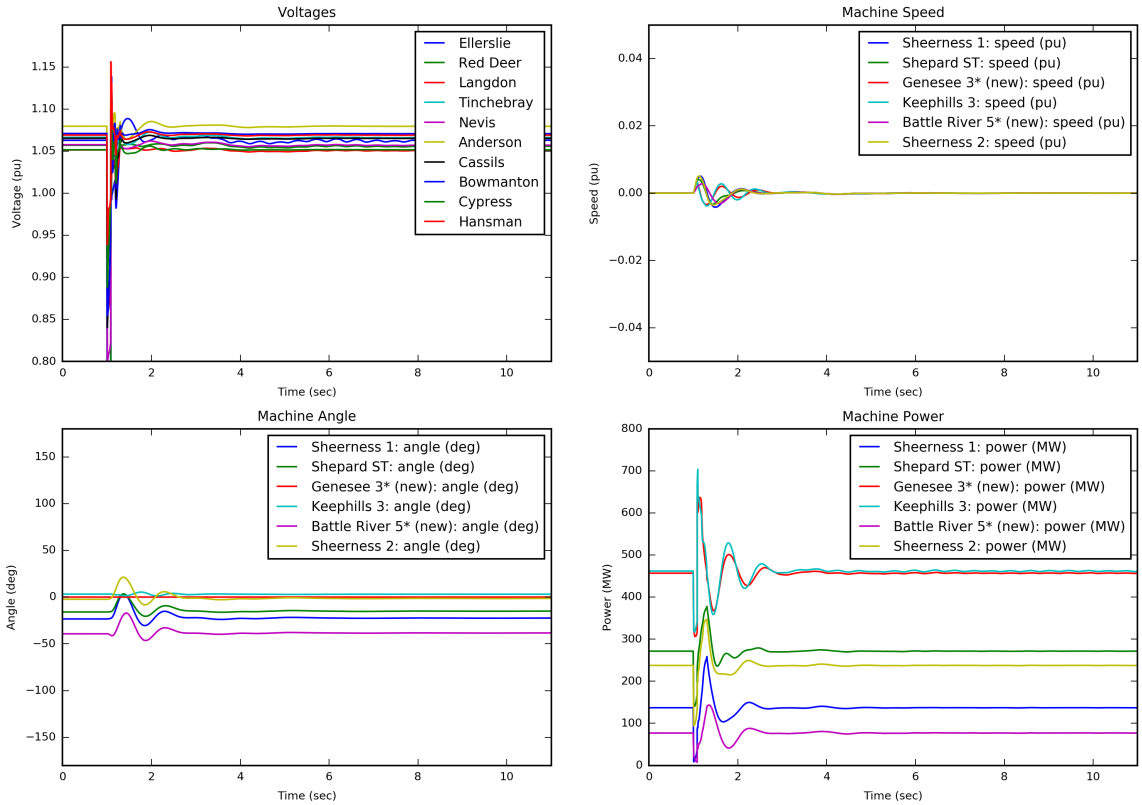
— T = 1.0020 s: Applied 3-ph fault on 910L (Saunders Lake - Wolf Creek) near Saunders Lake

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 910L (Saunders Lake - Wolf Creek)

— T = 1.1010 s: Fault is cleared

Figure 27



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

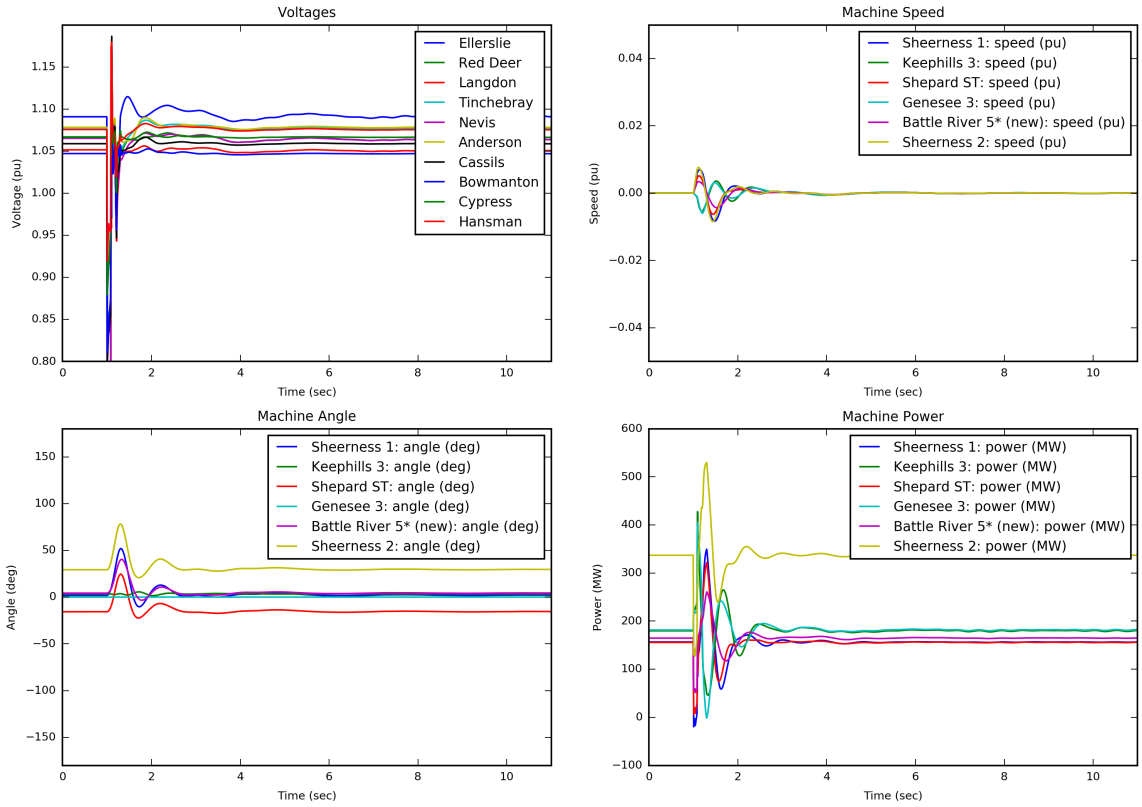
— T = 1.0020 s: Applied 3-ph fault on 910L (Saunders Lake - Wolf Creek) near Saunders Lake

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 910L (Saunders Lake - Wolf Creek)

— T = 1.1010 s: Fault is cleared

Figure 28



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

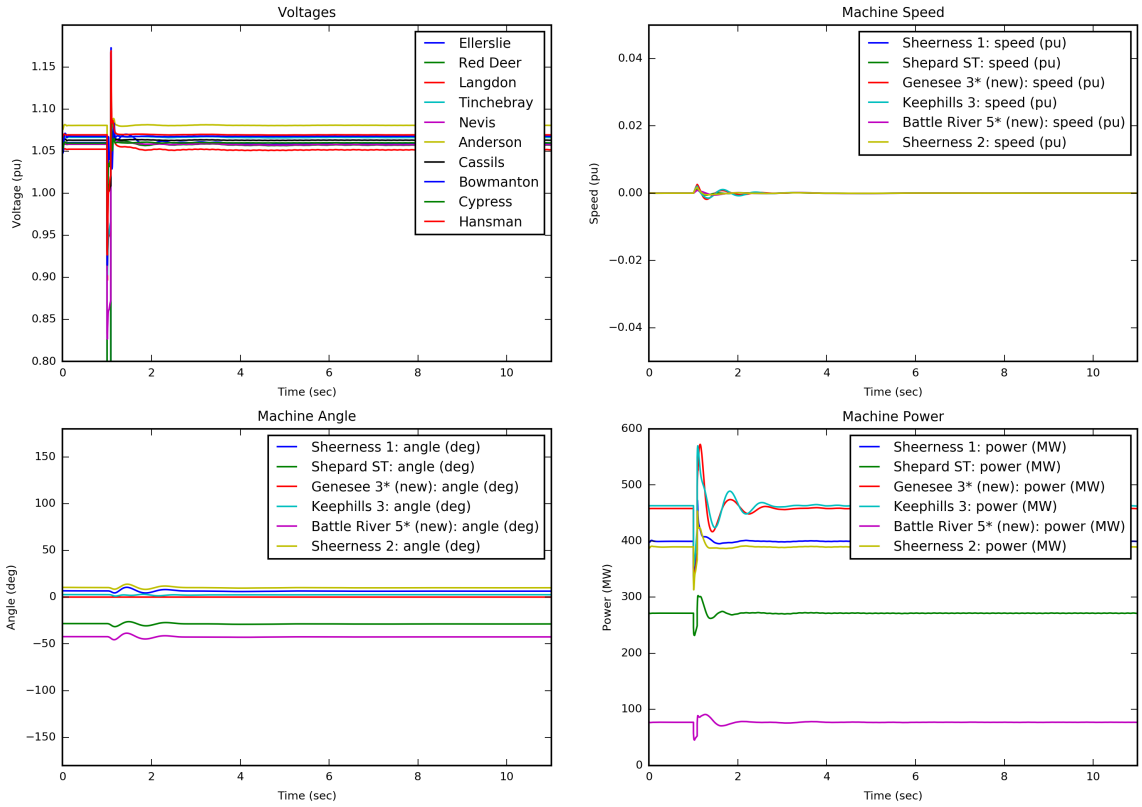
— T = 1.0020 s: Applied 3-ph fault on 910L (Saunders Lake - Wolf Creek) near Saunders Lake

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 910L (Saunders Lake - Wolf Creek)

— T = 1.1010 s: Fault is cleared

Figure 29



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

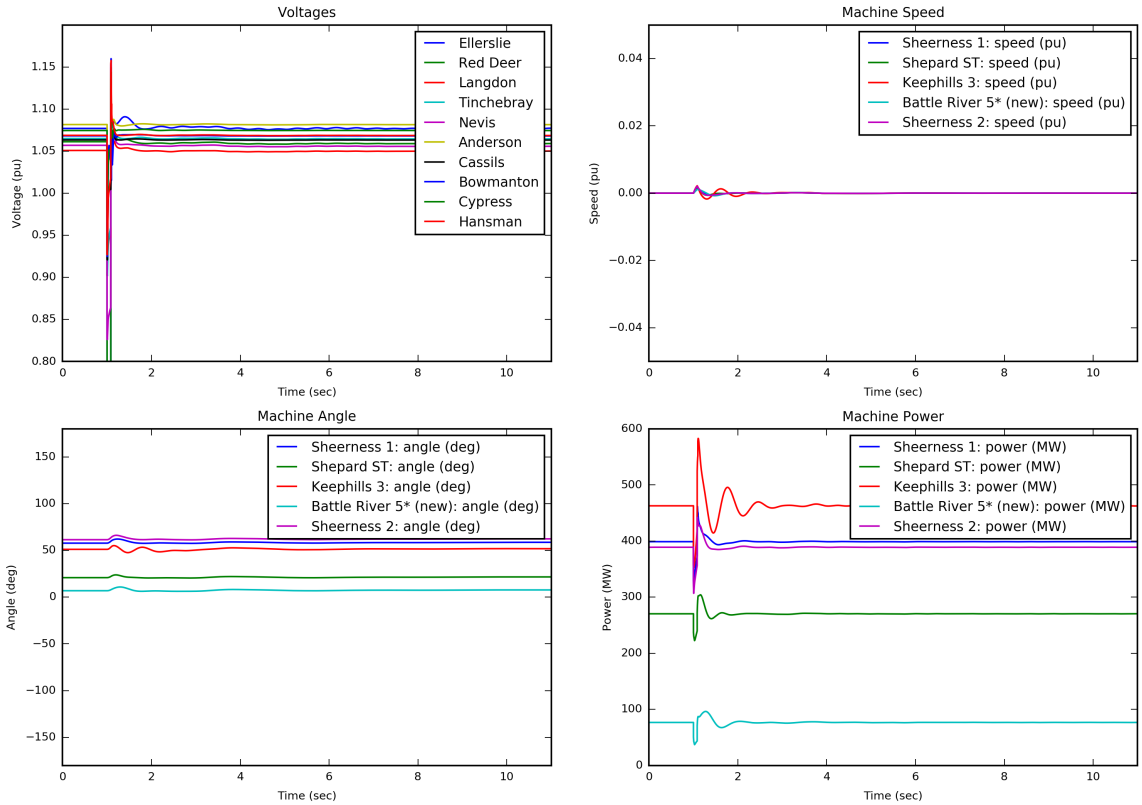
— T = 1.0020 s: Applied 3-ph fault on 910L (Wolf Creek - Saunders Lake) near Wolf Creek

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 910L (Wolf Creek - Saunders Lake)

— T = 1.1010 s: Fault is cleared

Figure 30



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

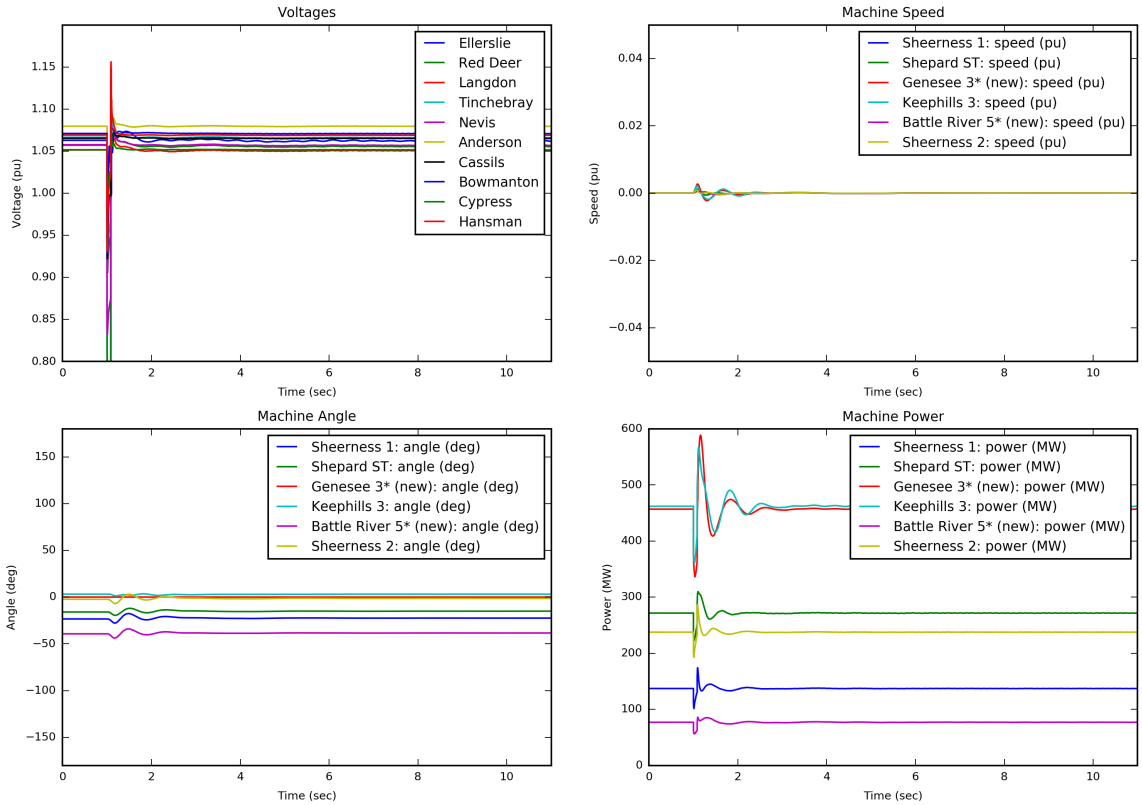
— T = 1.0020 s: Applied 3-ph fault on 910L (Wolf Creek - Saunders Lake) near Wolf Creek

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 910L (Wolf Creek - Saunders Lake)

— T = 1.1010 s: Fault is cleared

Figure 31



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

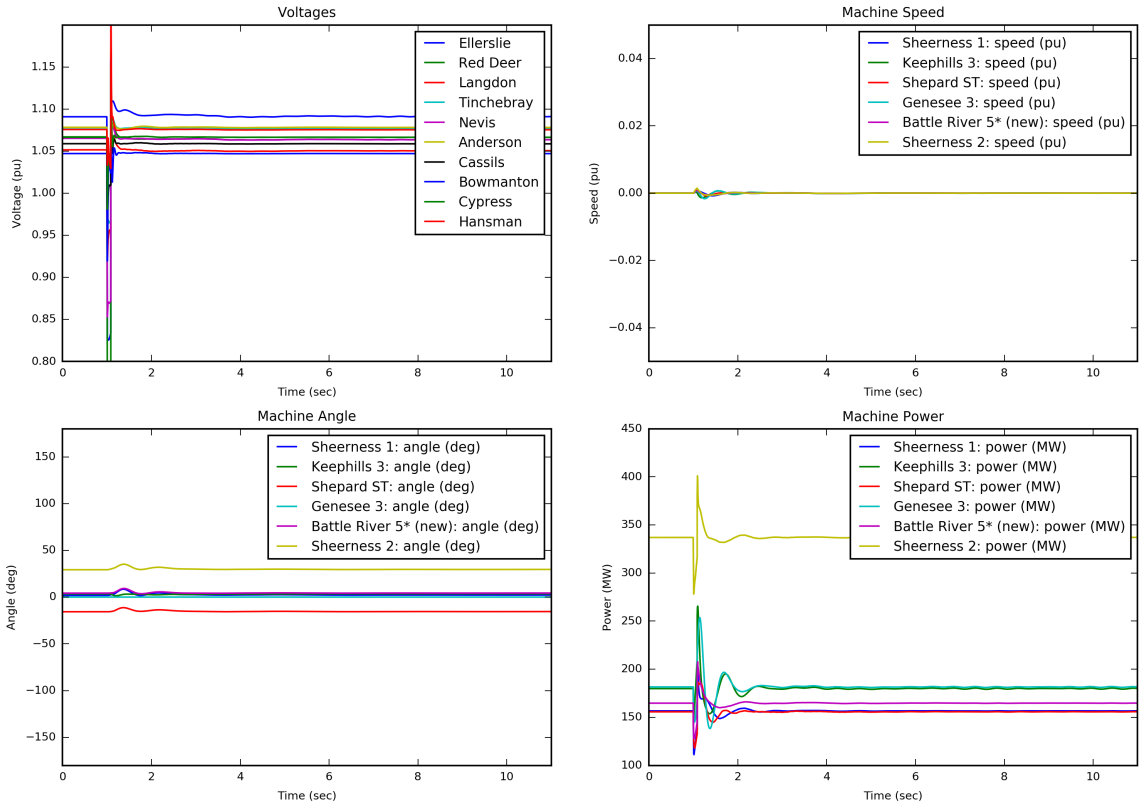
— T = 1.0020 s: Applied 3-ph fault on 910L (Wolf Creek - Saunders Lake) near Wolf Creek

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 910L (Wolf Creek - Saunders Lake)

— T = 1.1010 s: Fault is cleared

Figure 32



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

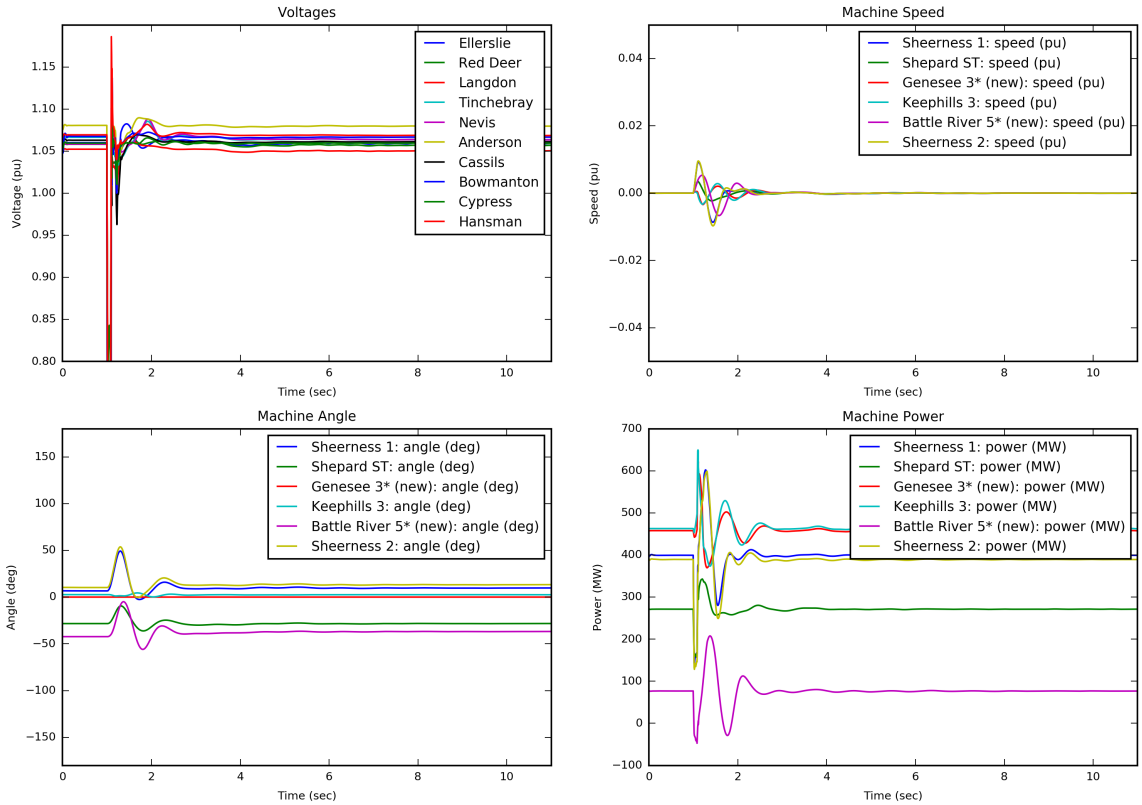
— T = 1.0020 s: Applied 3-ph fault on 910L (Wolf Creek - Saunders Lake) near Wolf Creek

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 910L (Wolf Creek - Saunders Lake)

— T = 1.1010 s: Fault is cleared

Figure 33



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

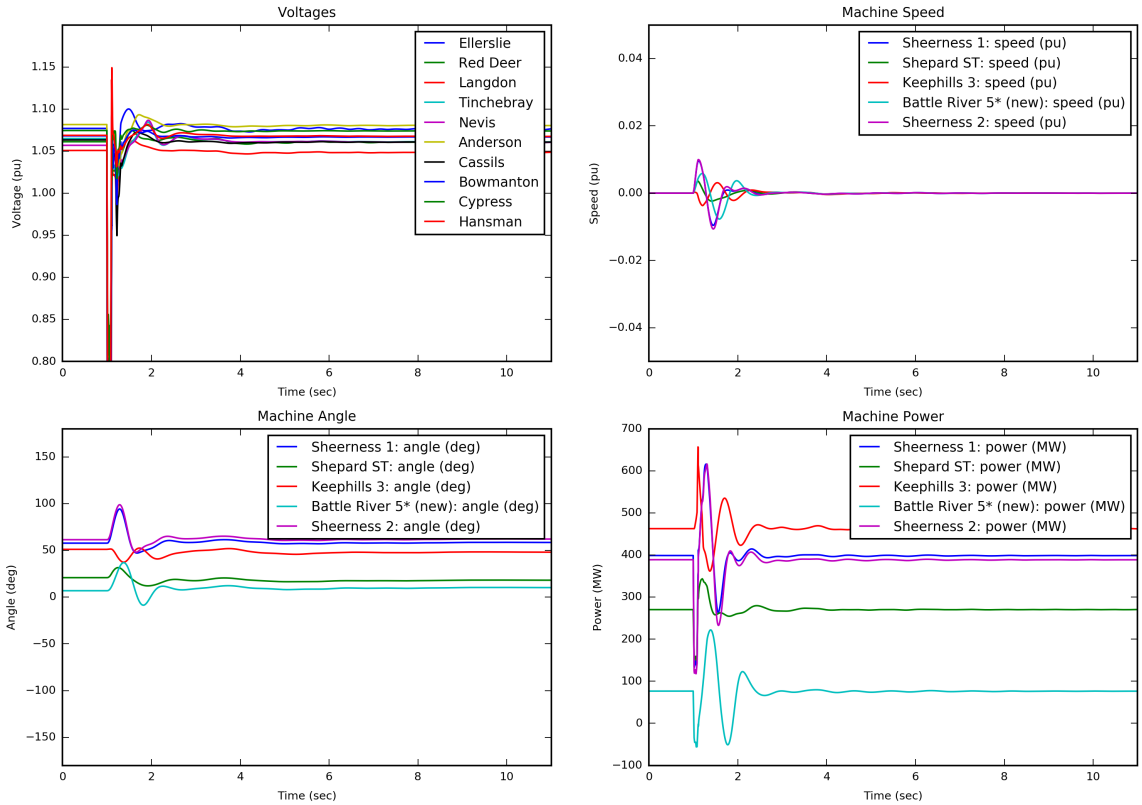
— T = 1.0020 s: Applied 3-ph fault on 912L (Nevis - Red Deer) near Red Deer

— T = 1.0920 s: Tripped 912L (Nevis - Red Deer)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 34



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

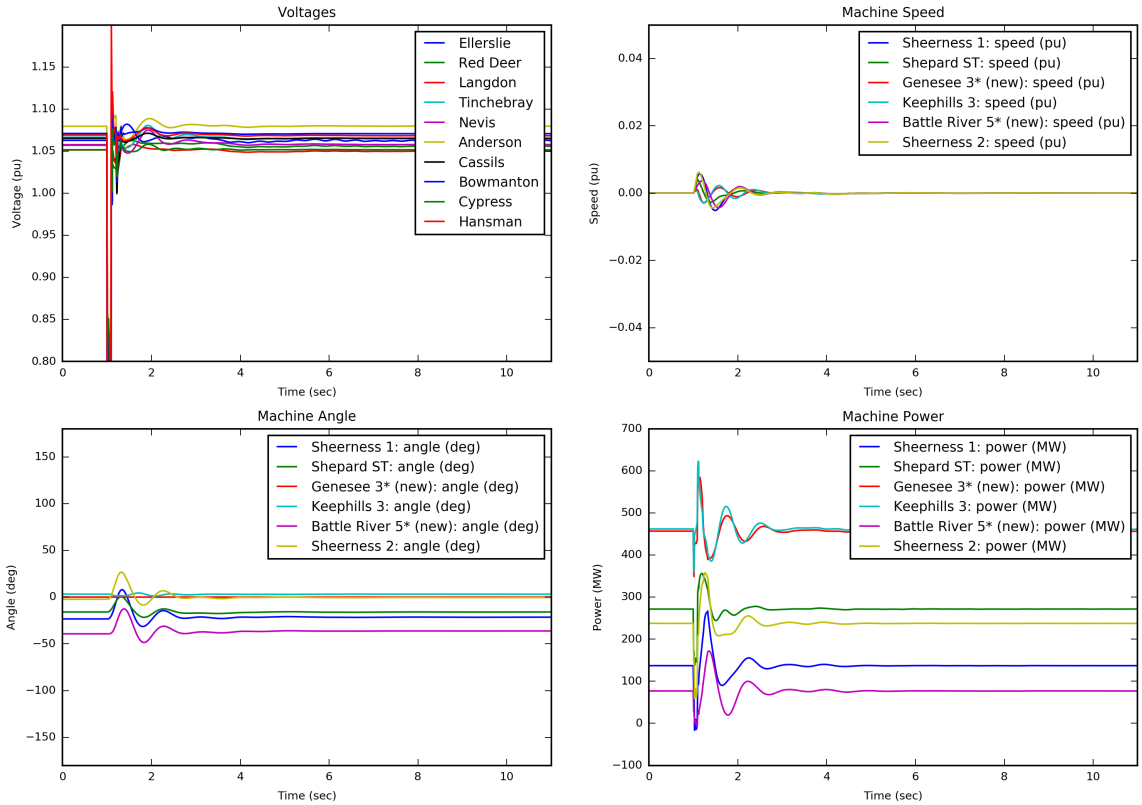
— T = 1.0020 s: Applied 3-ph fault on 912L (Nevis - Red Deer) near Red Deer

— T = 1.0920 s: Tripped 912L (Nevis - Red Deer)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 35



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

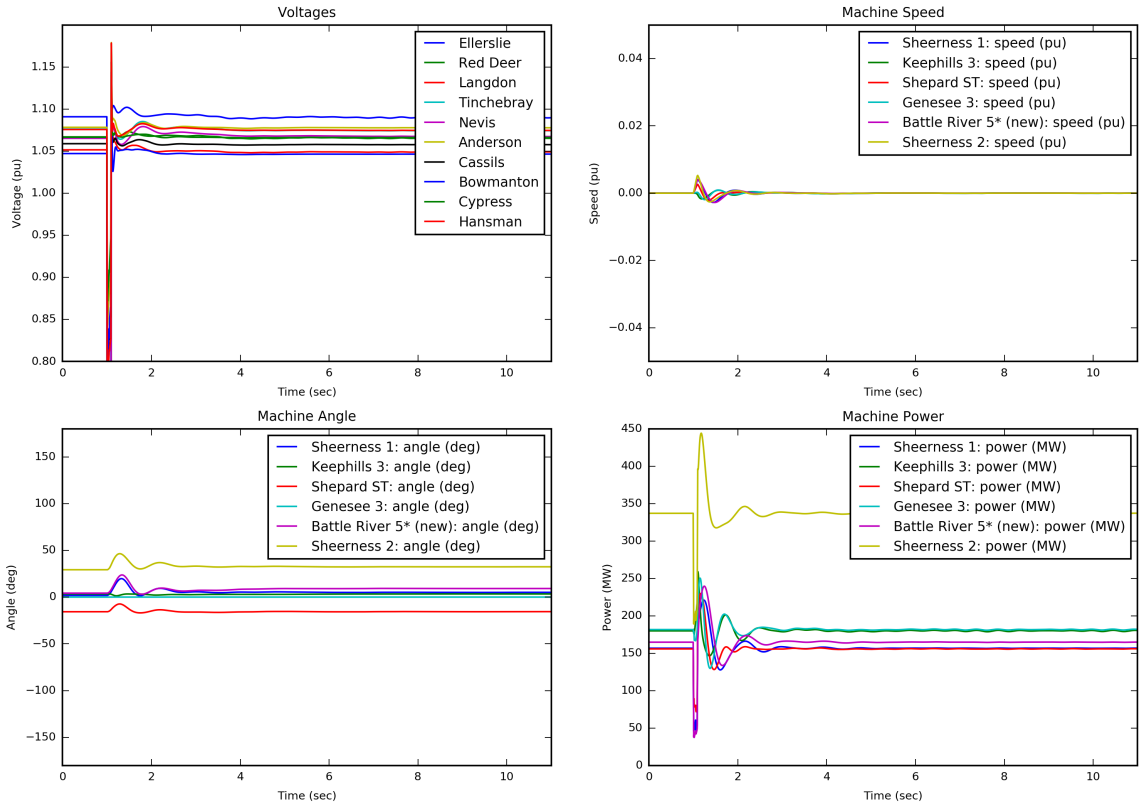
— T = 1.0020 s: Applied 3-ph fault on 912L (Nevis - Red Deer) near Red Deer

— T = 1.0920 s: Tripped 912L (Nevis - Red Deer)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 36



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

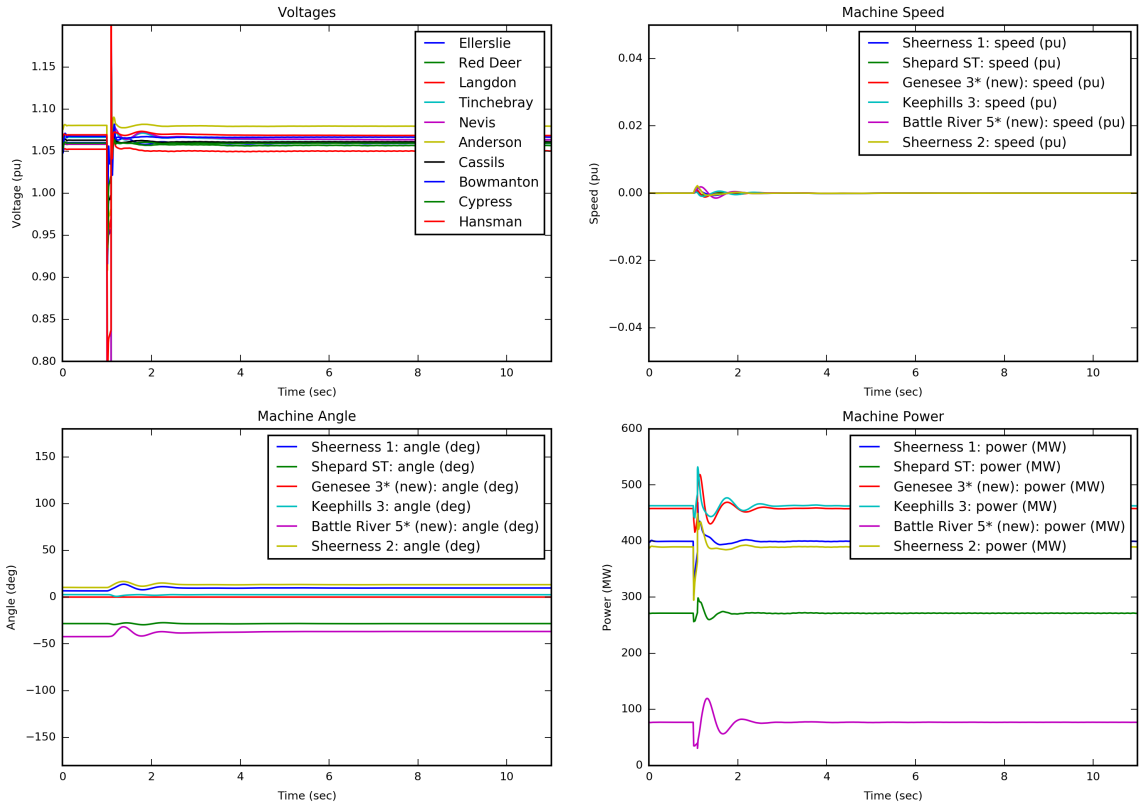
— T = 1.0020 s: Applied 3-ph fault on 912L (Nevis - Red Deer) near Red Deer

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 912L (Nevis - Red Deer)

— T = 1.0920 s: Fault is cleared

Figure 37



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

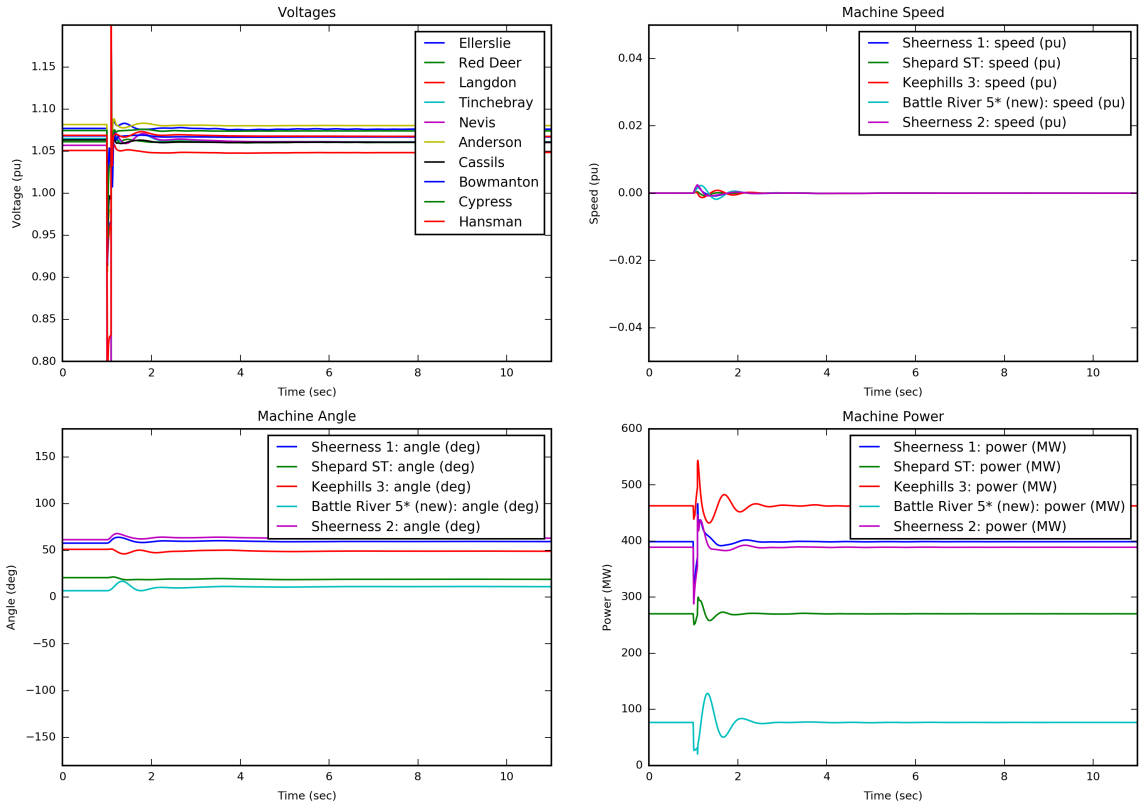
— T = 1.0020 s: Applied 3-ph fault on 912L (Red Deer - Nevis) near Nevis

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 912L (Red Deer - Nevis)

— T = 1.0920 s: Fault is cleared

Figure 38



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

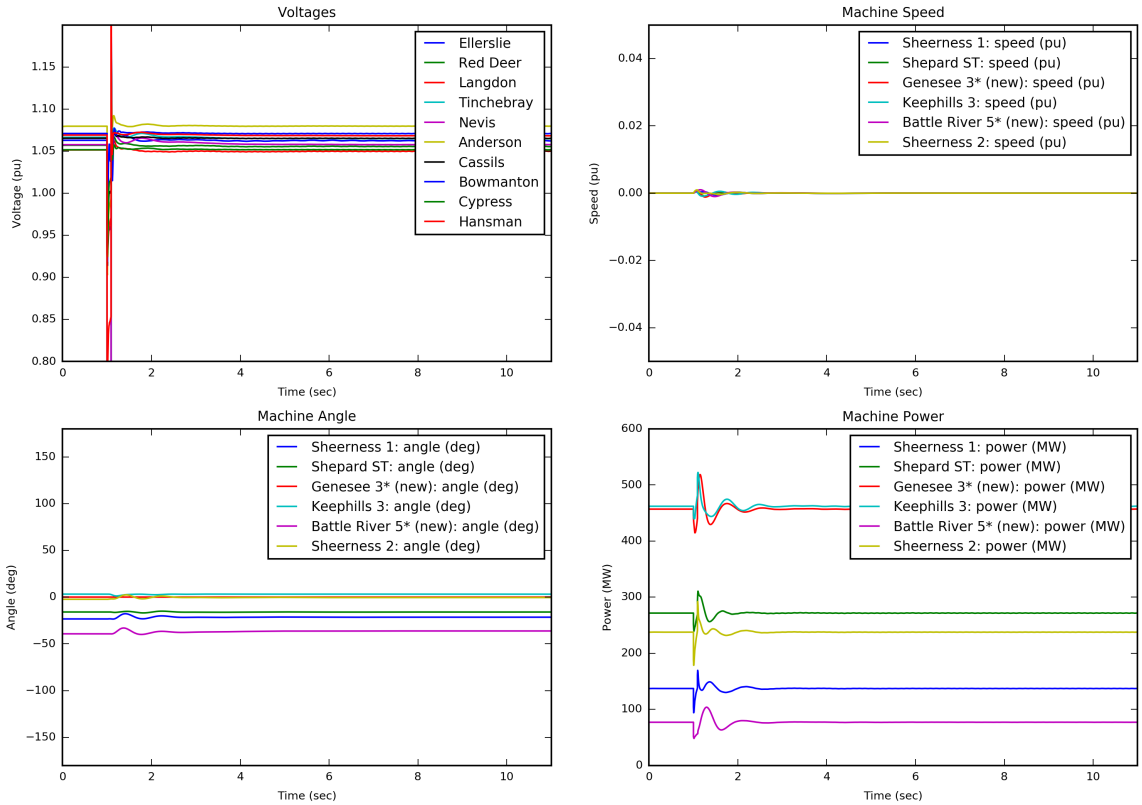
— T = 1.0020 s: Applied 3-ph fault on 912L (Red Deer - Nevis) near Nevis

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 912L (Red Deer - Nevis)

— T = 1.0920 s: Fault is cleared

Figure 39



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

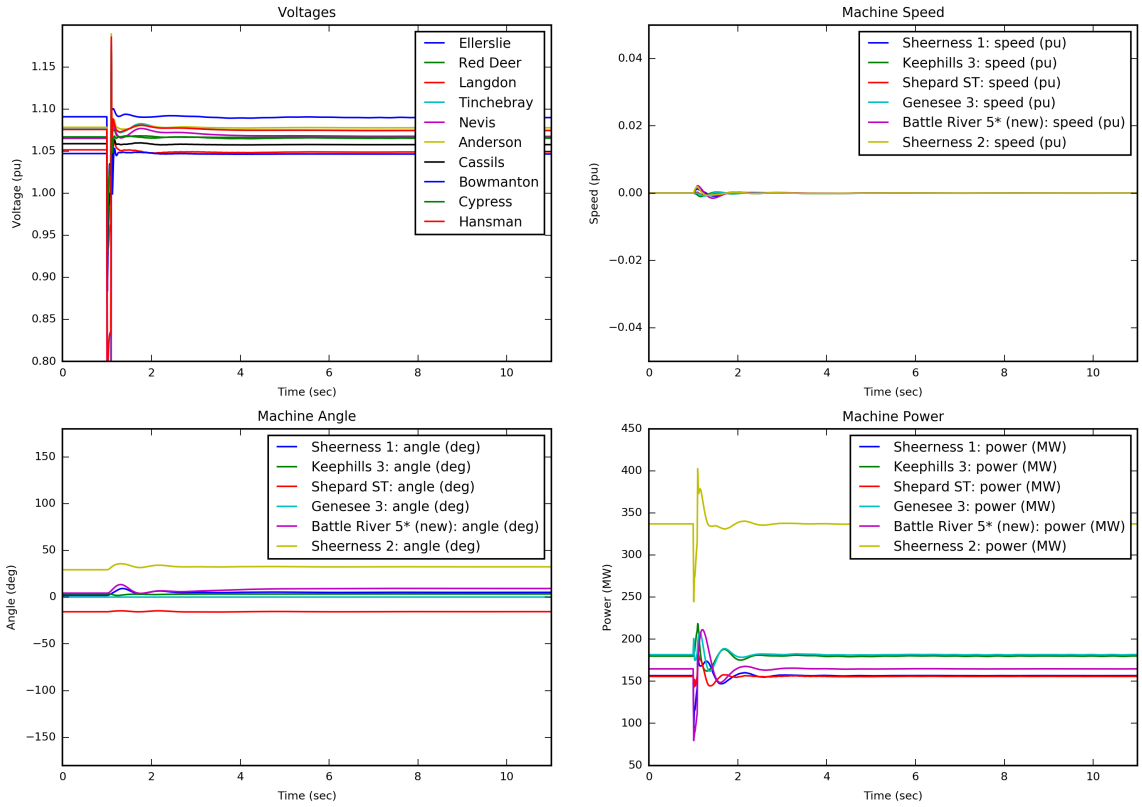
— T = 1.0020 s: Applied 3-ph fault on 912L (Red Deer - Nevis) near Nevis

— T = 1.0920 s: Tripped 912L (Red Deer - Nevis)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 40



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

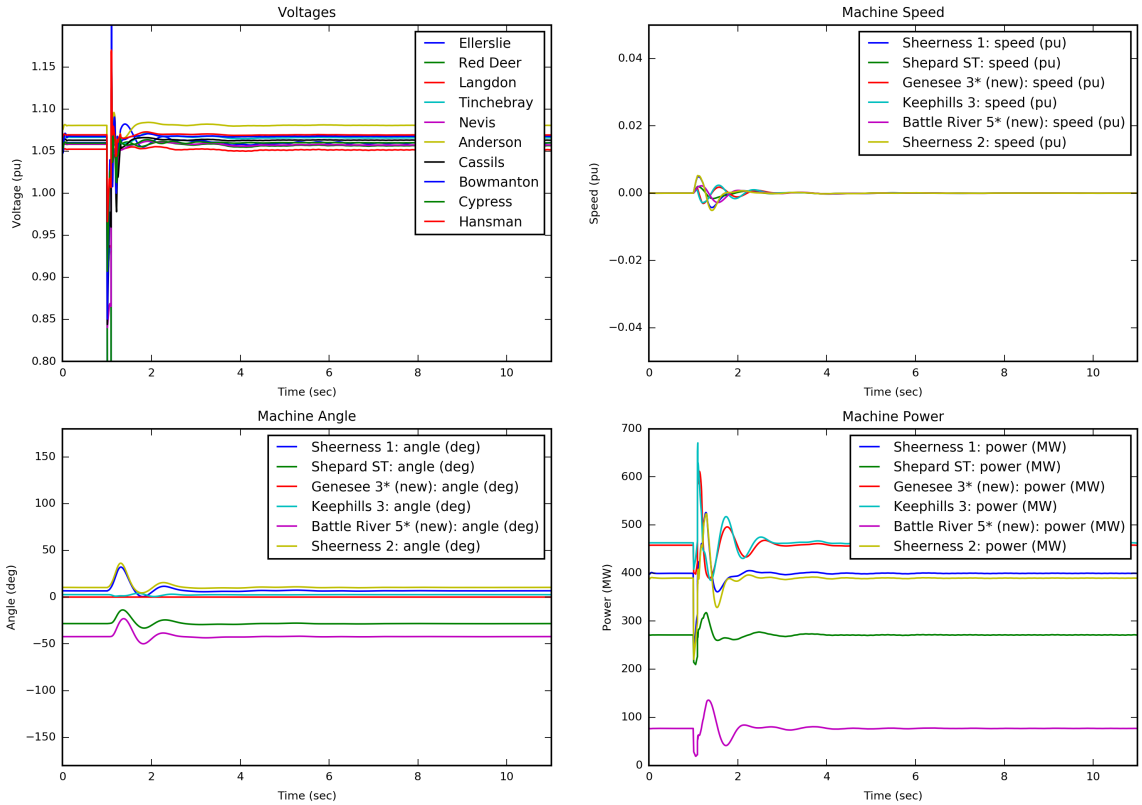
— T = 1.0020 s: Applied 3-ph fault on 912L (Red Deer - Nevis) near Nevis

— T = 1.0920 s: Tripped 912L (Red Deer - Nevis)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 41



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

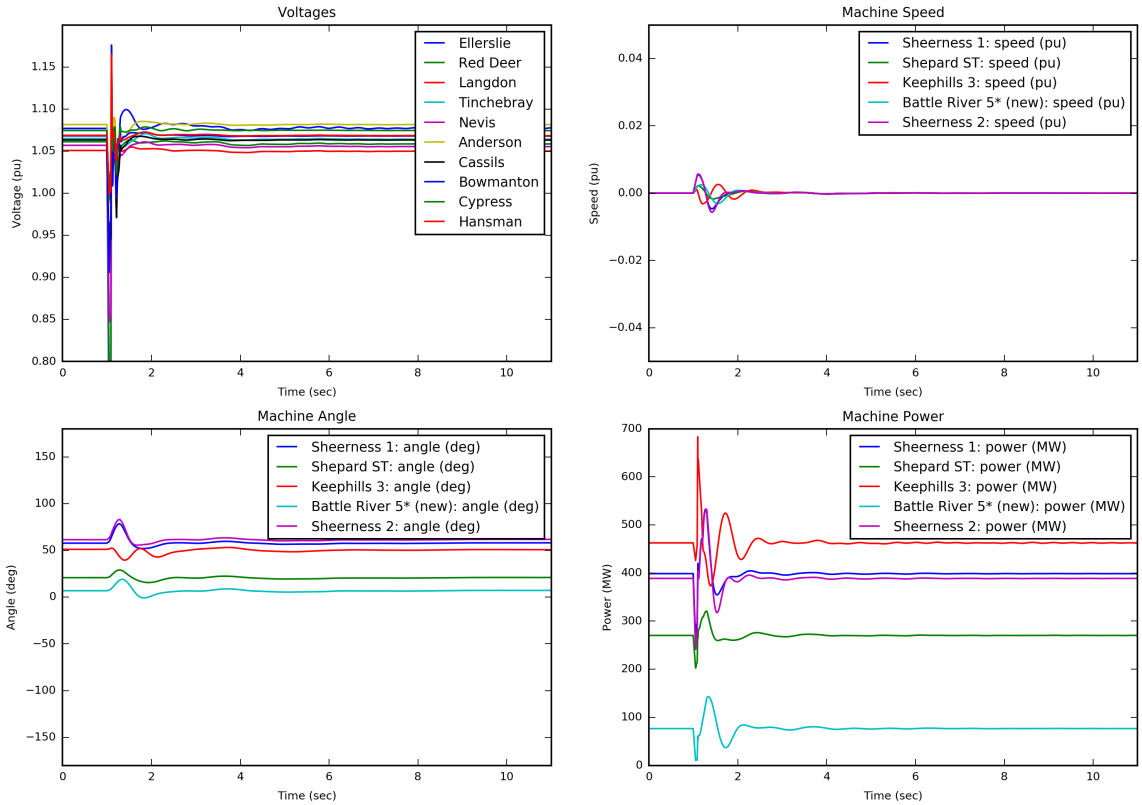
— T = 1.0020 s: Applied 3-ph fault on 914L (Bigstone - Gaetz) near Bigstone

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 914L (Bigstone - Gaetz)

— T = 1.0920 s: Fault is cleared

Figure 42



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

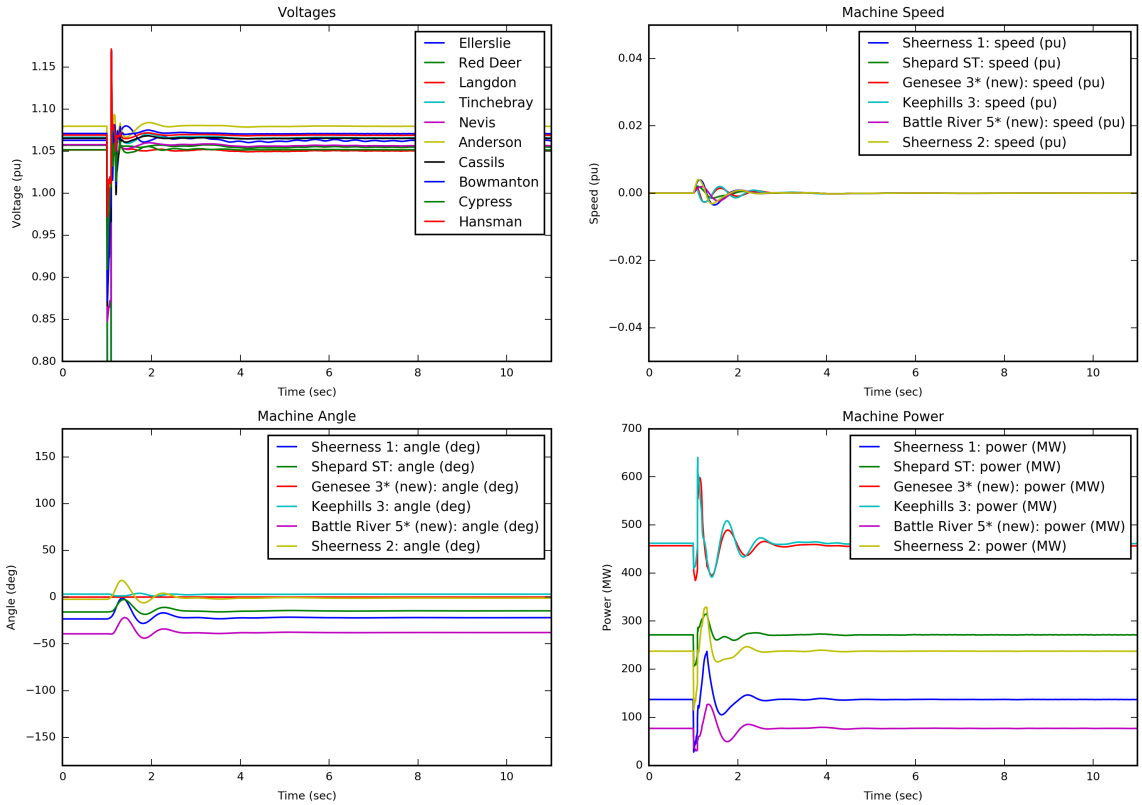
— T = 1.0020 s: Applied 3-ph fault on 914L (Bigstone - Gaetz) near Bigstone

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 914L (Bigstone - Gaetz)

— T = 1.0920 s: Fault is cleared

Figure 43



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

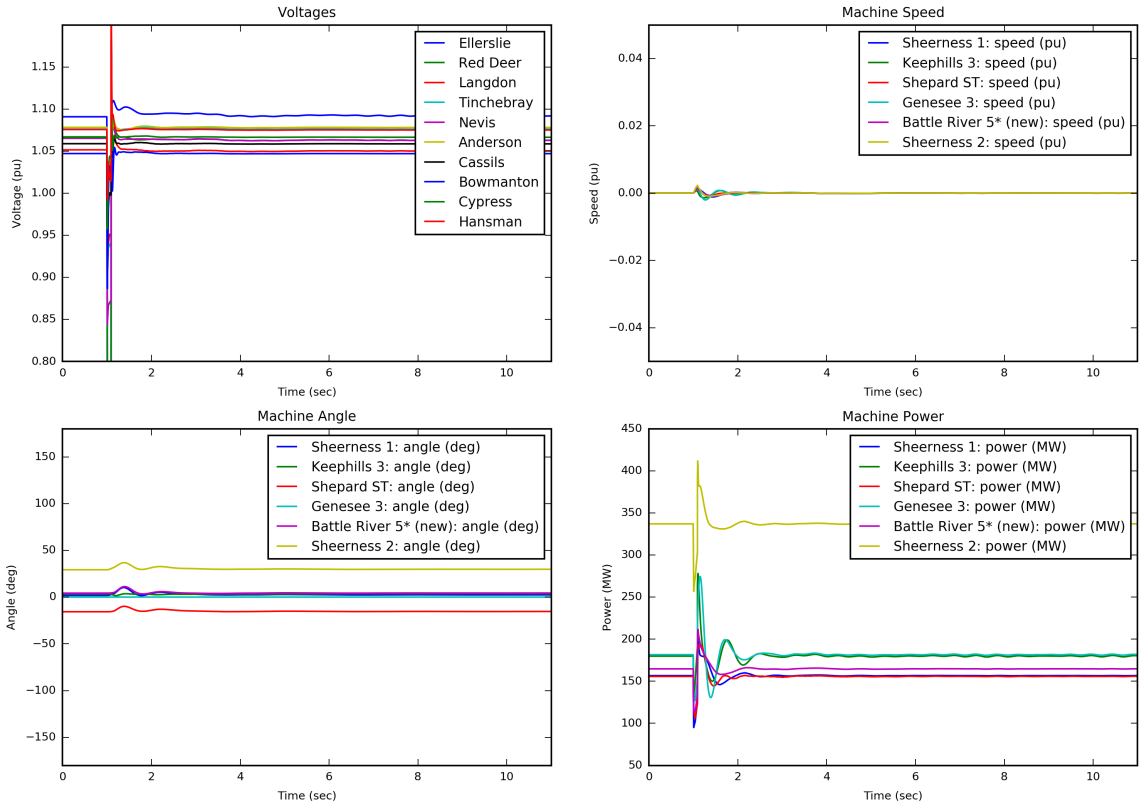
— T = 1.0020 s: Applied 3-ph fault on 914L (Bigstone - Gaetz) near Bigstone

— T = 1.0920 s: Tripped 914L (Bigstone - Gaetz)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 44



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

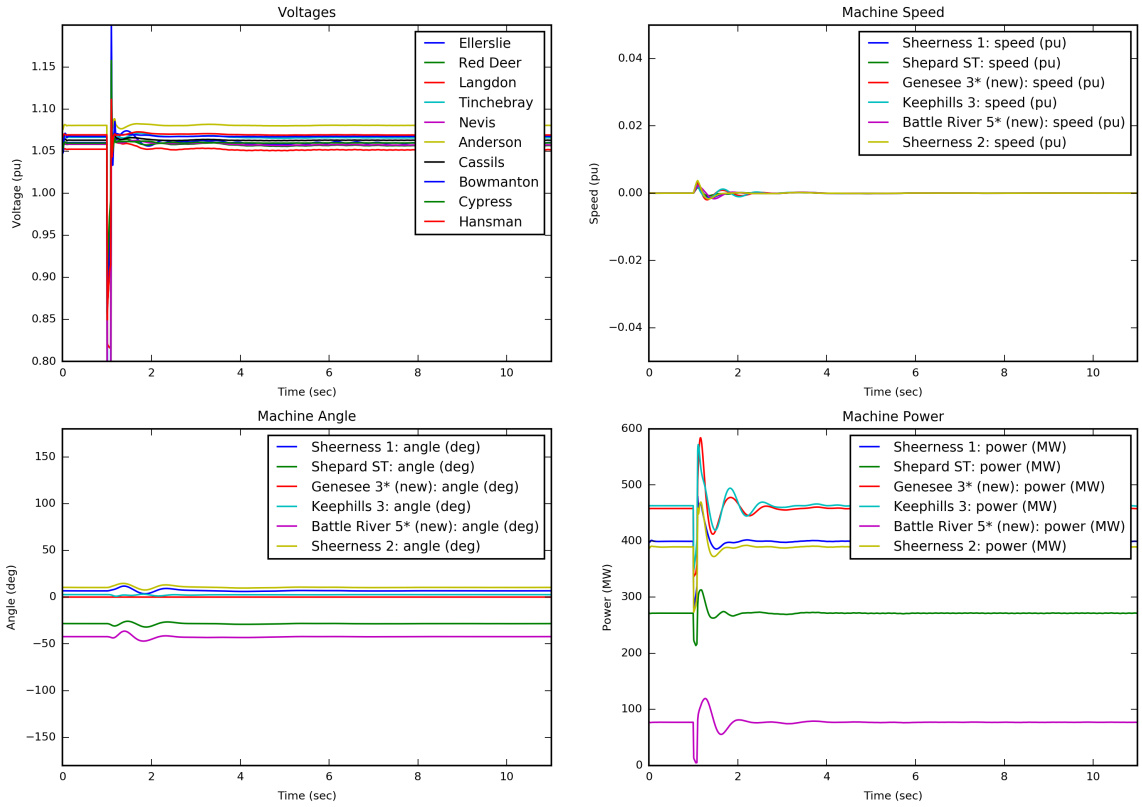
— T = 1.0020 s: Applied 3-ph fault on 914L (Bigstone - Gaetz) near Bigstone

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 914L (Bigstone - Gaetz)

— T = 1.0920 s: Fault is cleared

Figure 45



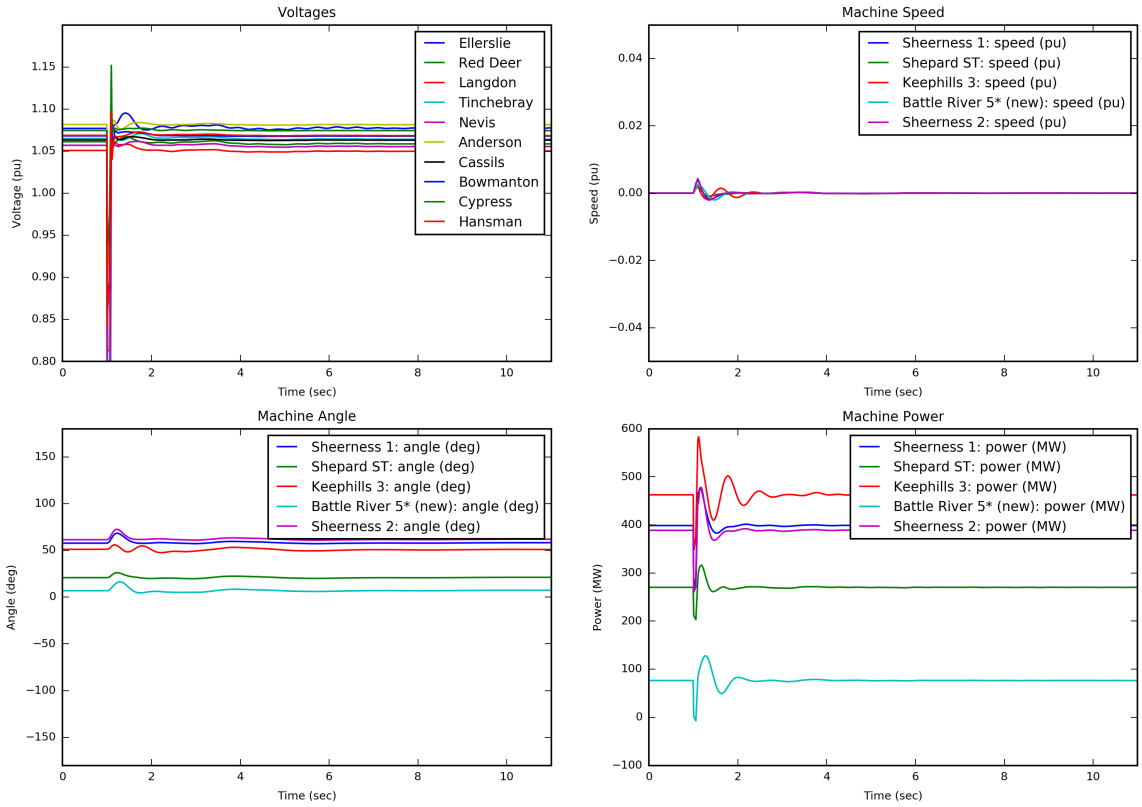
Case Description

- Study case: 2023 H4; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 914L (Gaetz - Bigstone) near Gaetz
- T = 1.0920 s: Tripped 914L (Gaetz - Bigstone)
- T = 1.0920 s: Fault is cleared
- T = 1.0920 s: Opened both breakers

Figure 46



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

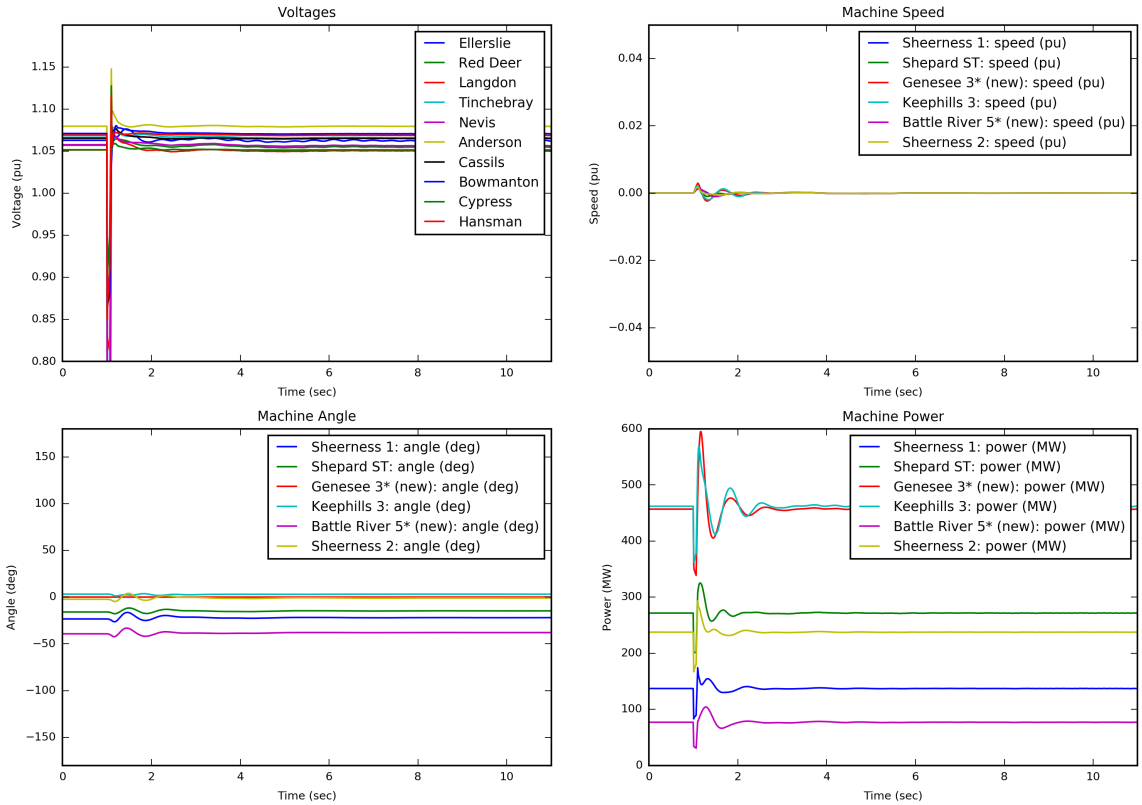
— T = 1.0020 s: Applied 3-ph fault on 914L (Gaetz - Bigstone) near Gaetz

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 914L (Gaetz - Bigstone)

— T = 1.0920 s: Fault is cleared

Figure 47



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

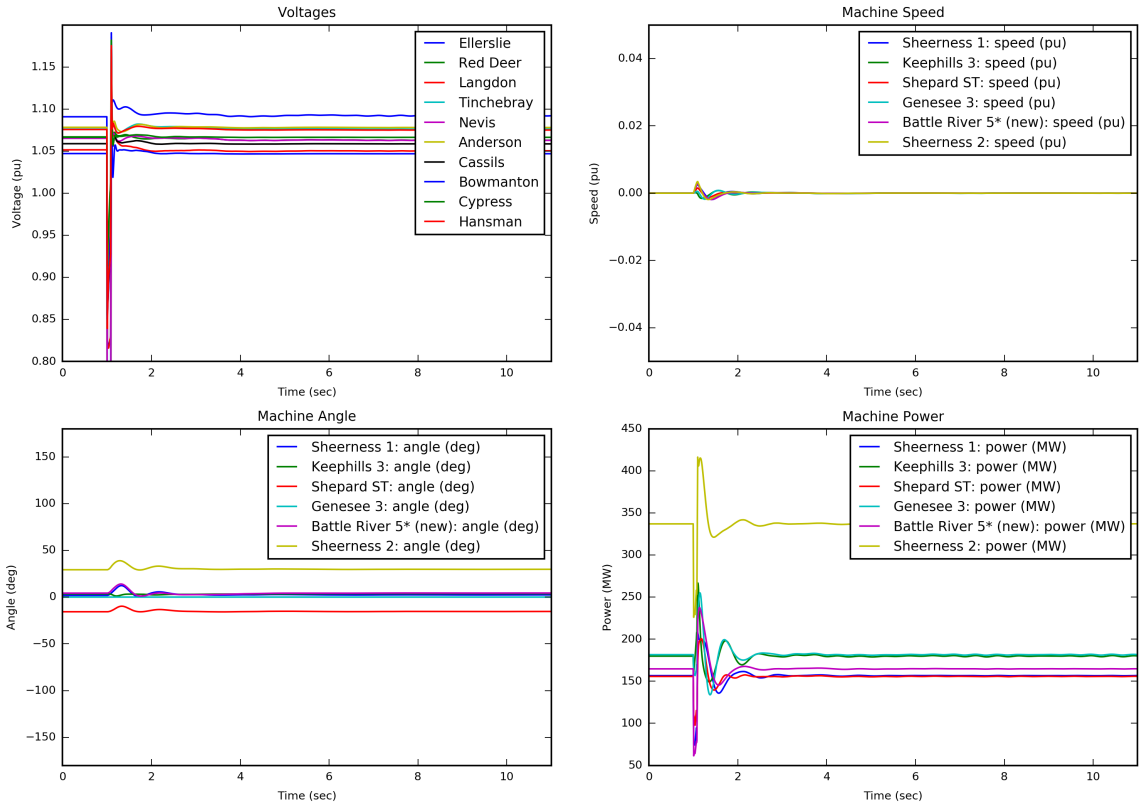
— T = 1.0020 s: Applied 3-ph fault on 914L (Gaetz - Bigstone) near Gaetz

— T = 1.0920 s: Tripped 914L (Gaetz - Bigstone)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 48



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

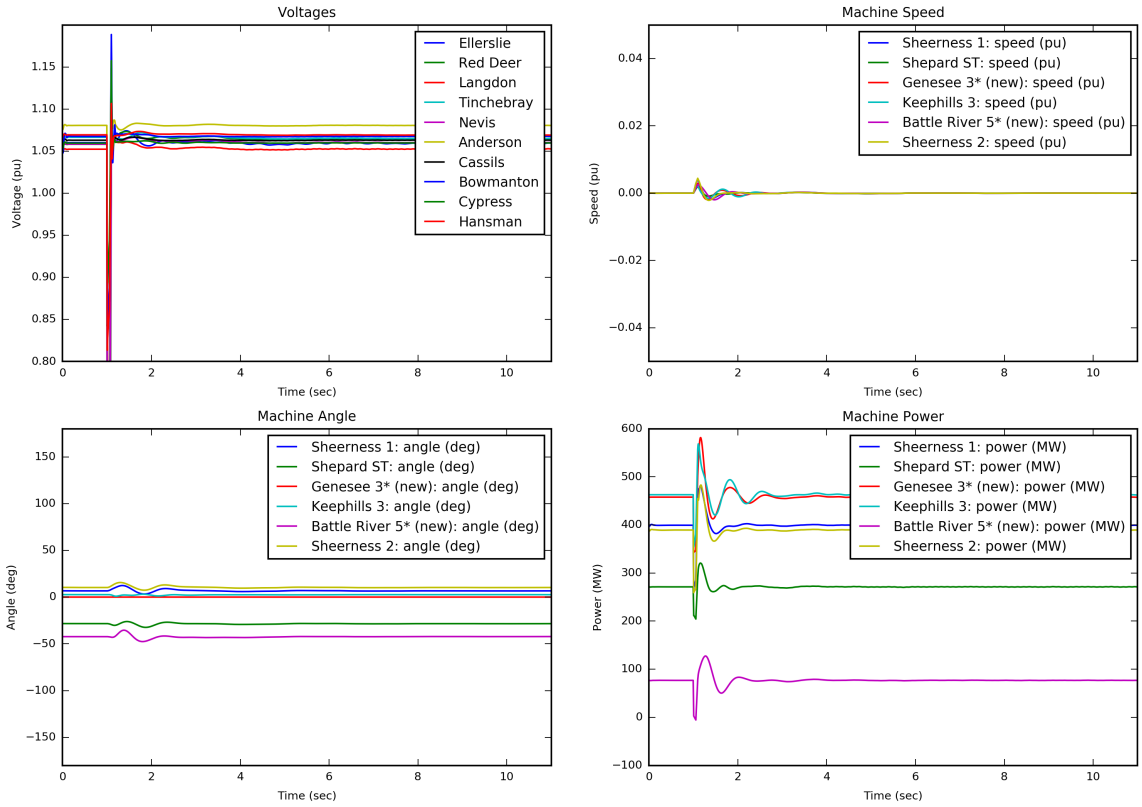
— T = 1.0020 s: Applied 3-ph fault on 914L (Gaetz - Bigstone) near Gaetz

— T = 1.0920 s: Tripped 914L (Gaetz - Bigstone)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 49



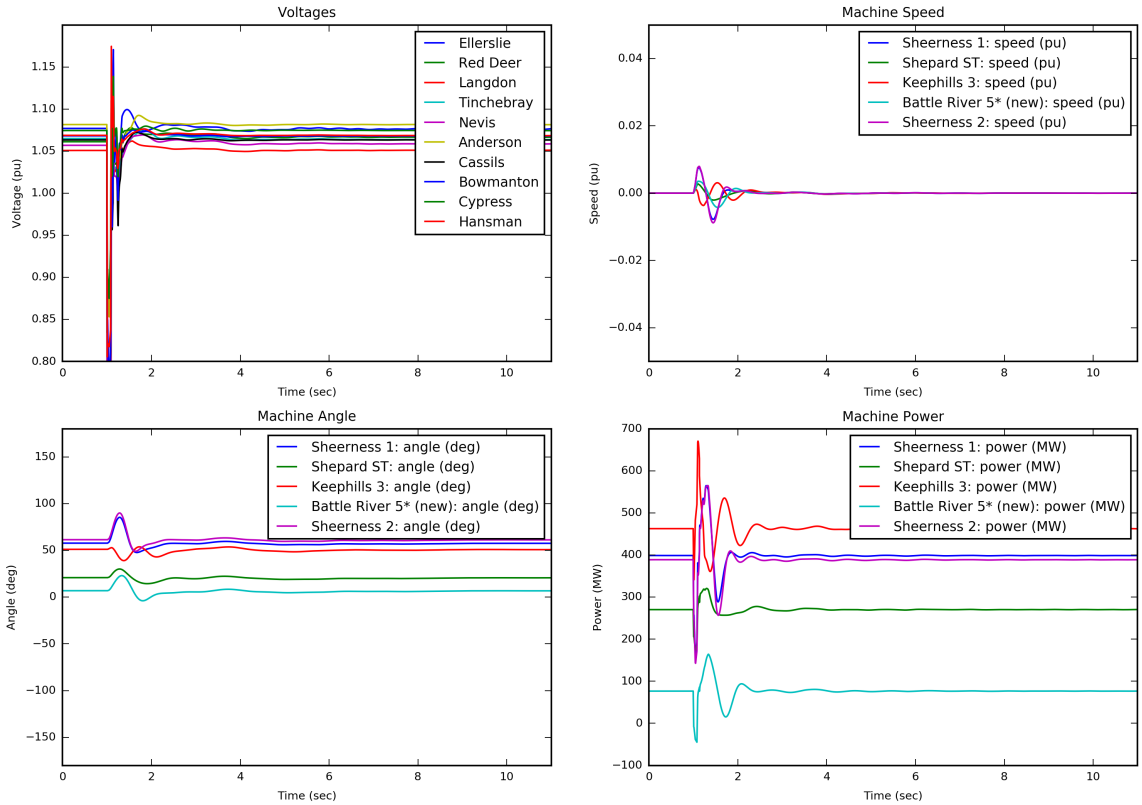
Case Description

- Study case: 2023 H4; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 914L (Red Deer - Gaetz) near Gaetz
- T = 1.0920 s: Opened both breakers
- T = 1.0920 s: Tripped 914L (Red Deer - Gaetz)
- T = 1.0920 s: Fault is cleared

Figure 50



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

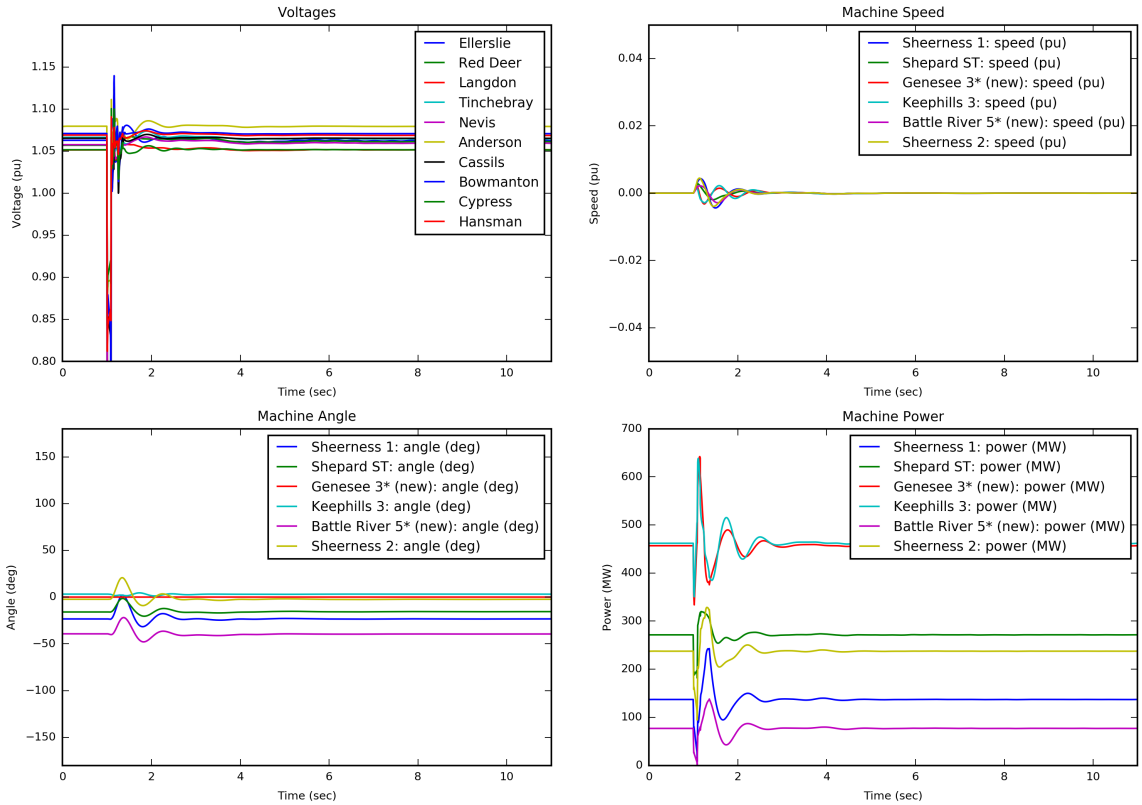
— T = 1.0020 s: Applied 3-ph fault on 914L (Red Deer - Gaetz) near Gaetz

— T = 1.0920 s: Tripped 914L (Red Deer - Gaetz)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 51



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

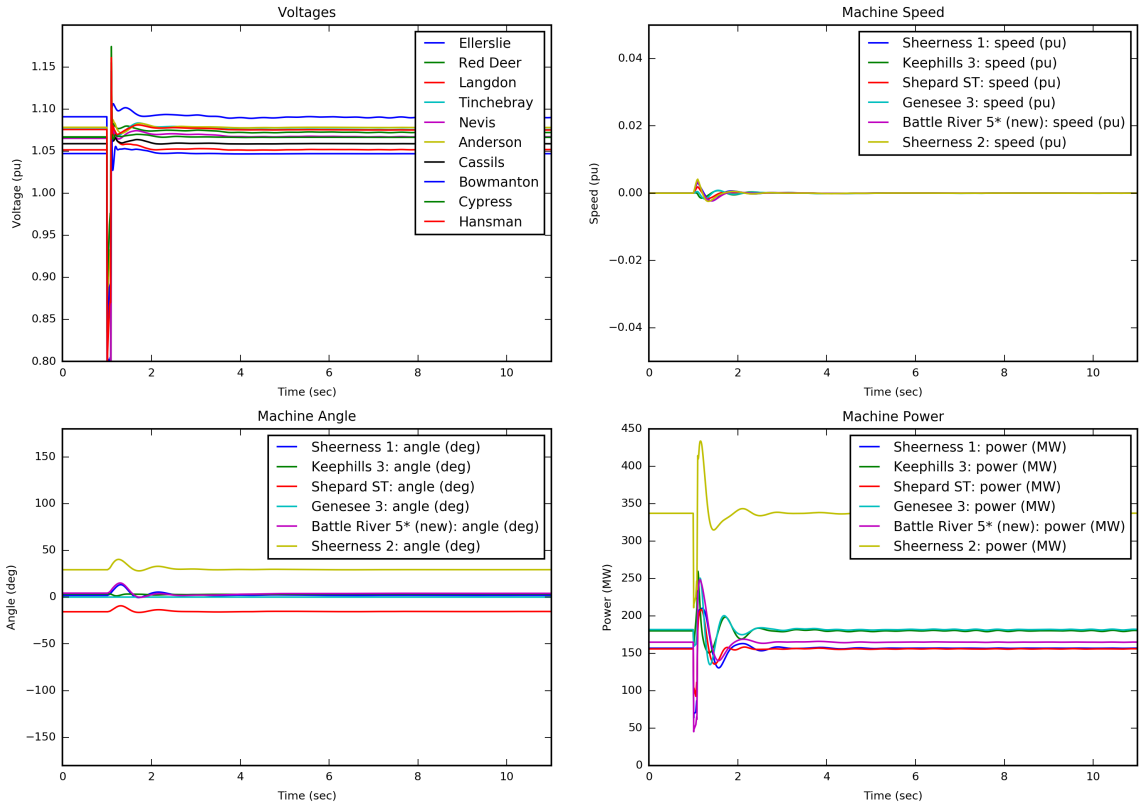
— T = 1.0020 s: Applied 3-ph fault on 914L (Red Deer - Gaetz) near Gaetz

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 914L (Red Deer - Gaetz)

— T = 1.0920 s: Fault is cleared

Figure 52



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

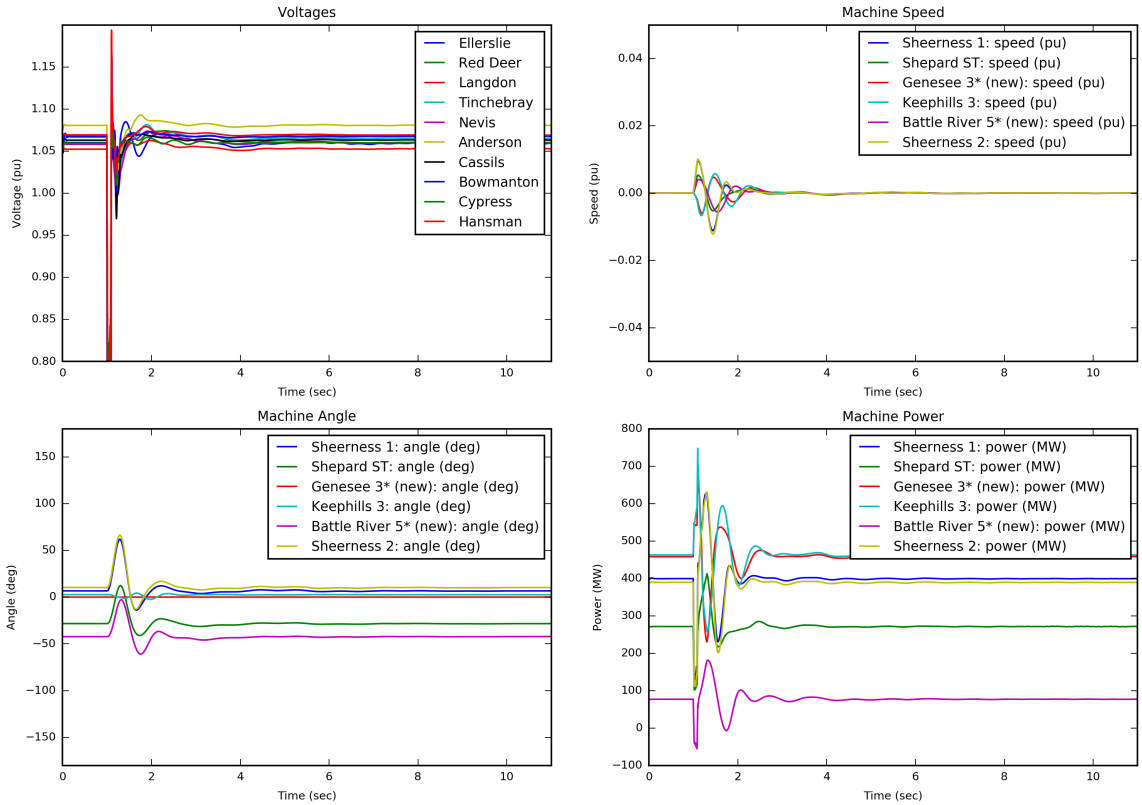
— T = 1.0020 s: Applied 3-ph fault on 914L (Red Deer - Gaetz) near Gaetz

— T = 1.0920 s: Tripped 914L (Red Deer - Gaetz)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 53



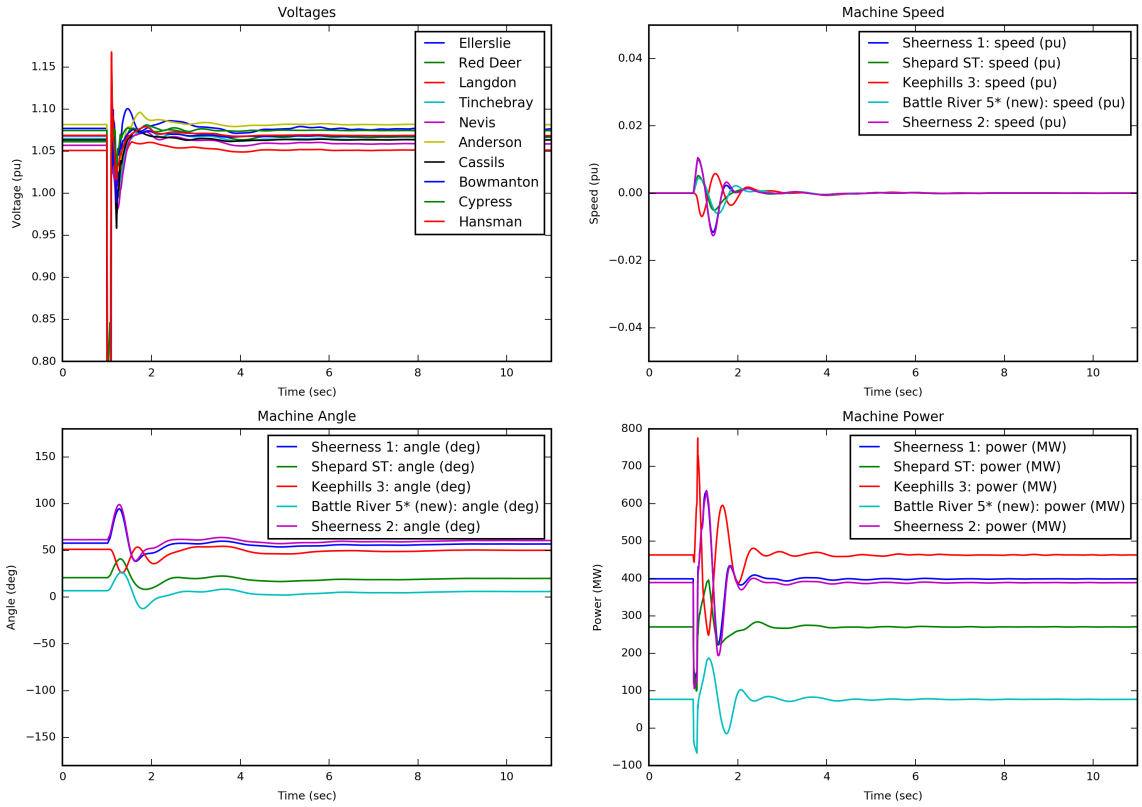
Case Description

- Study case: 2023 H4; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 914L (Gaetz - Red Deer) near Red Deer
- T = 1.0920 s: Tripped 914L (Gaetz - Red Deer)
- T = 1.0920 s: Fault is cleared
- T = 1.0920 s: Opened both breakers

Figure 54



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

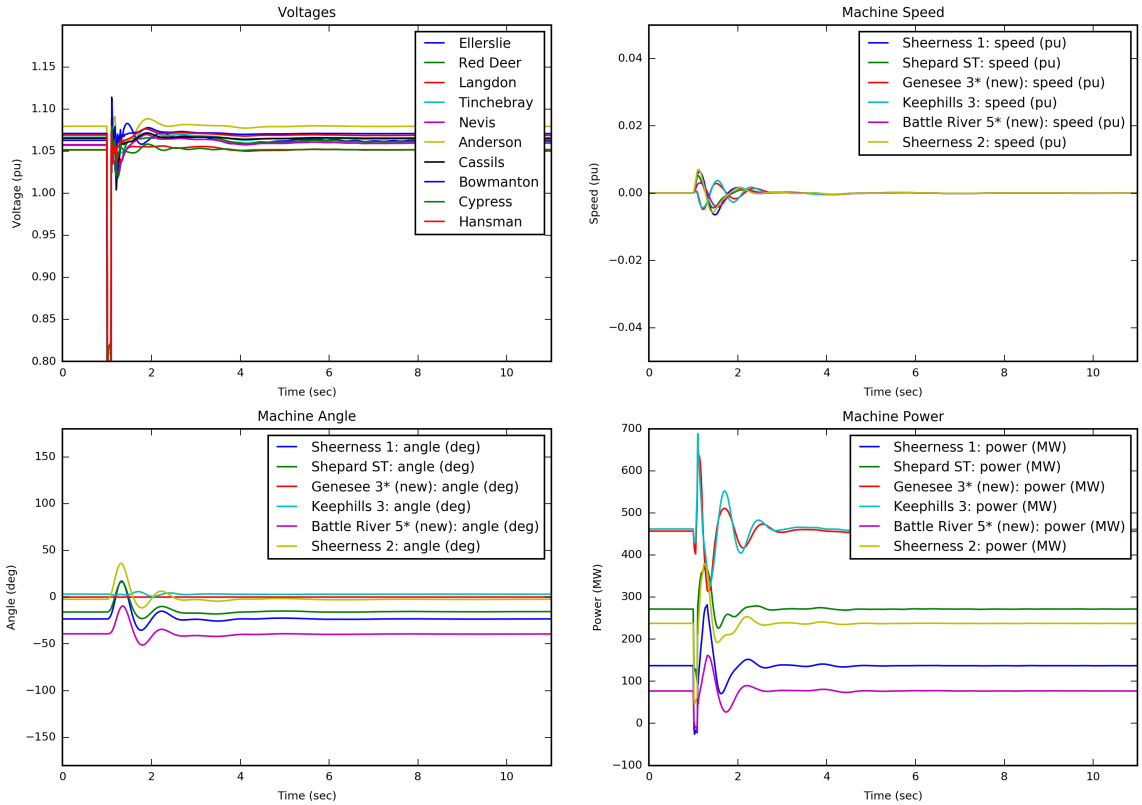
— T = 1.0020 s: Applied 3-ph fault on 914L (Gaetz - Red Deer) near Red Deer

— T = 1.0920 s: Tripped 914L (Gaetz - Red Deer)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 55



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

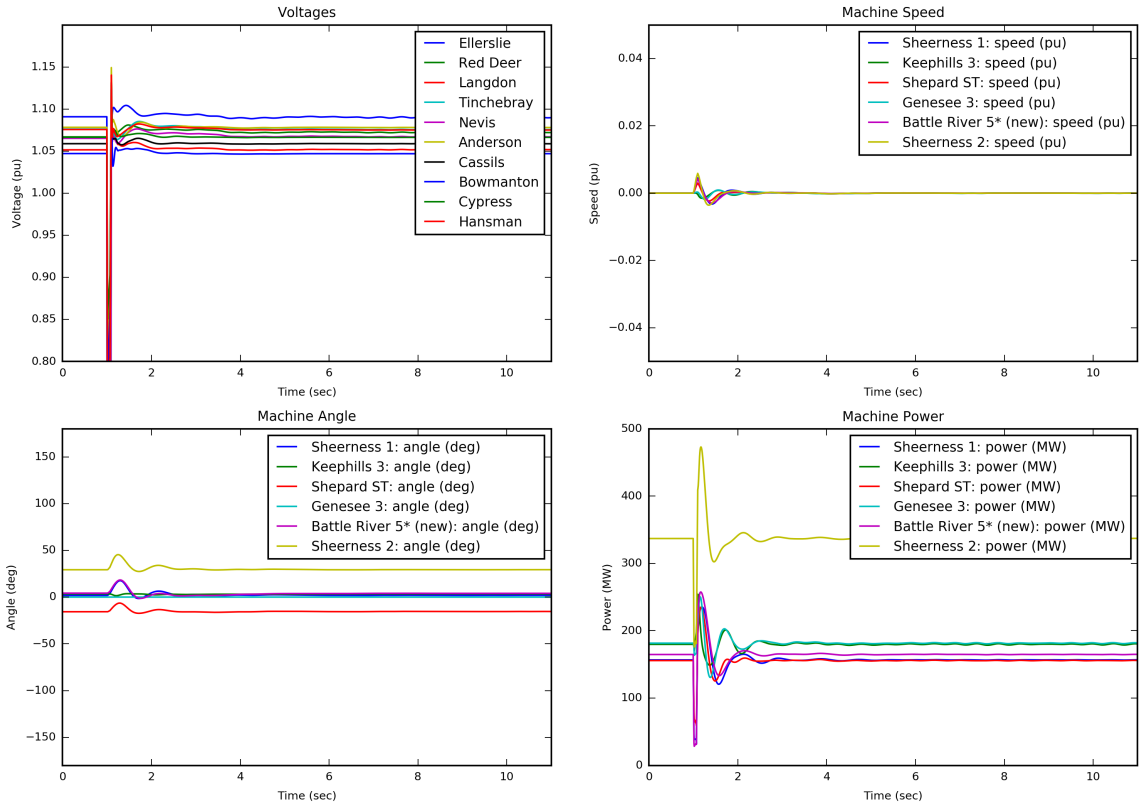
— T = 1.0020 s: Applied 3-ph fault on 914L (Gaetz - Red Deer) near Red Deer

— T = 1.0920 s: Tripped 914L (Gaetz - Red Deer)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 56



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

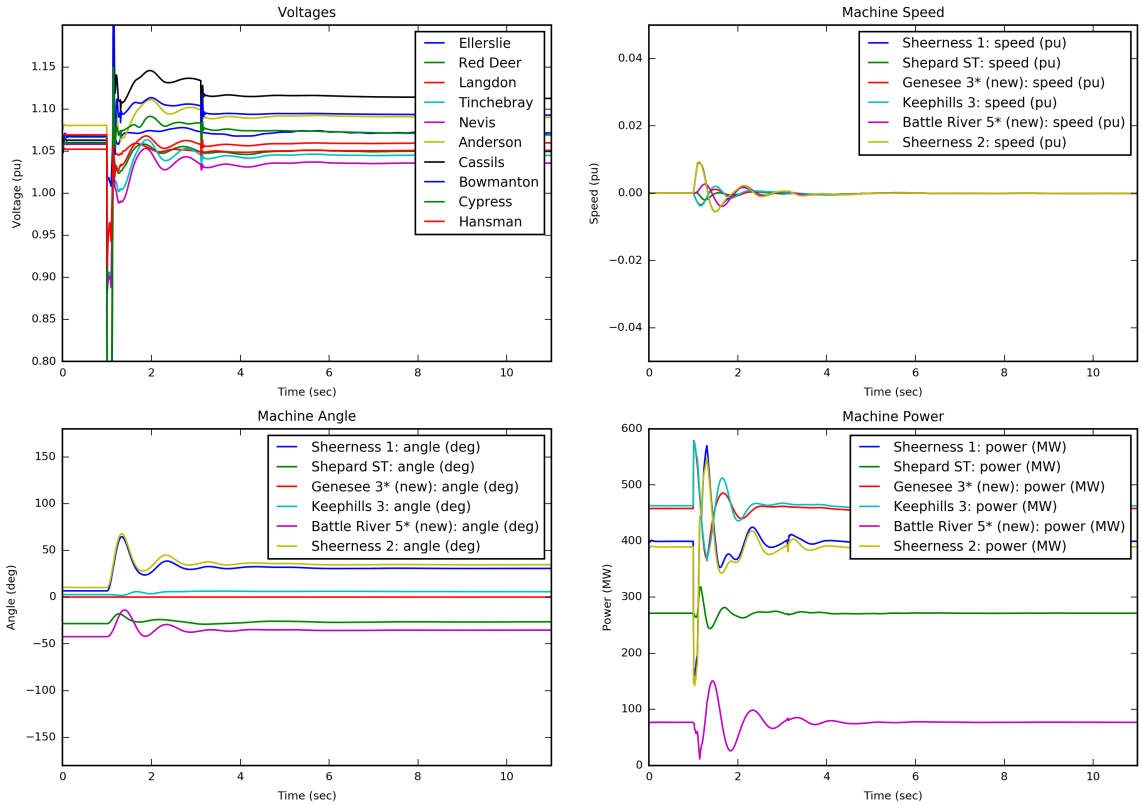
— T = 1.0020 s: Applied 3-ph fault on 914L (Gaetz - Red Deer) near Red Deer

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 914L (Gaetz - Red Deer)

— T = 1.0920 s: Fault is cleared

Figure 57



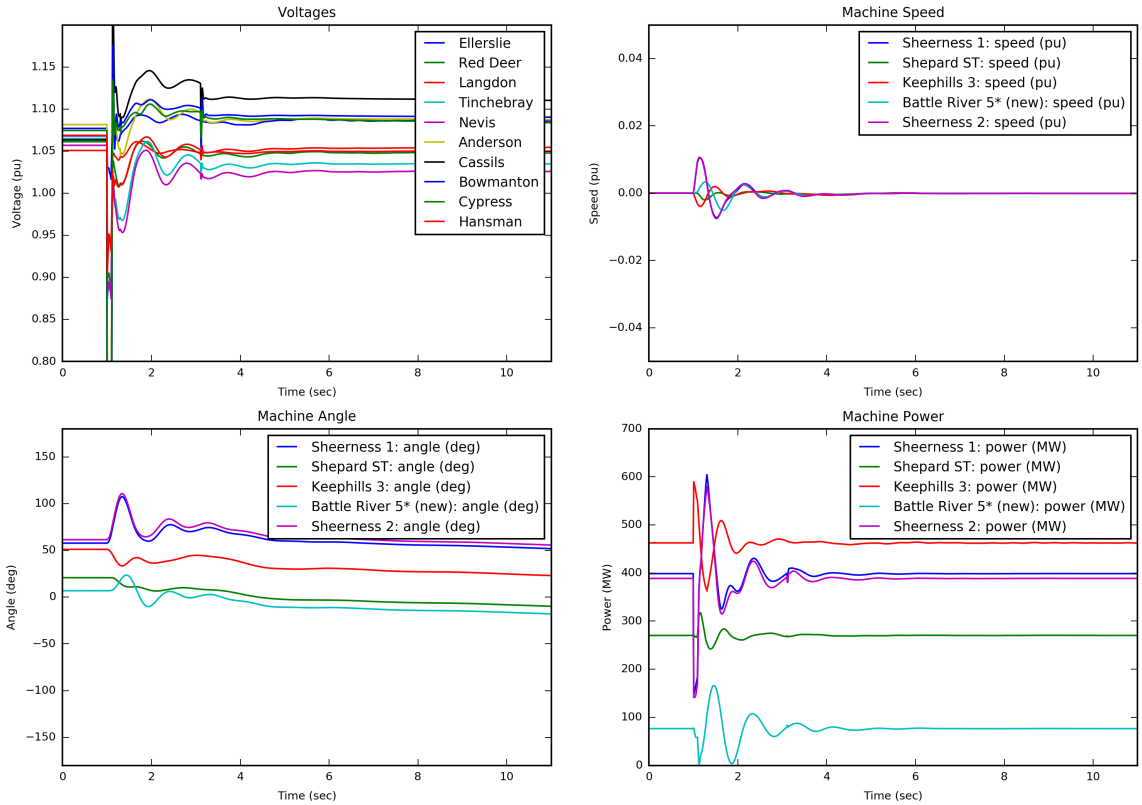
Case Description

- Study case: 2023 H4; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault at Milo
- T = 1.1010 s: Tripped 923L
- T = 1.1010 s: Tripped 935L
- T = 1.1010 s: Fault is cleared
- T = 1.1010 s: EATL runback to 500 MW activated

Figure 58



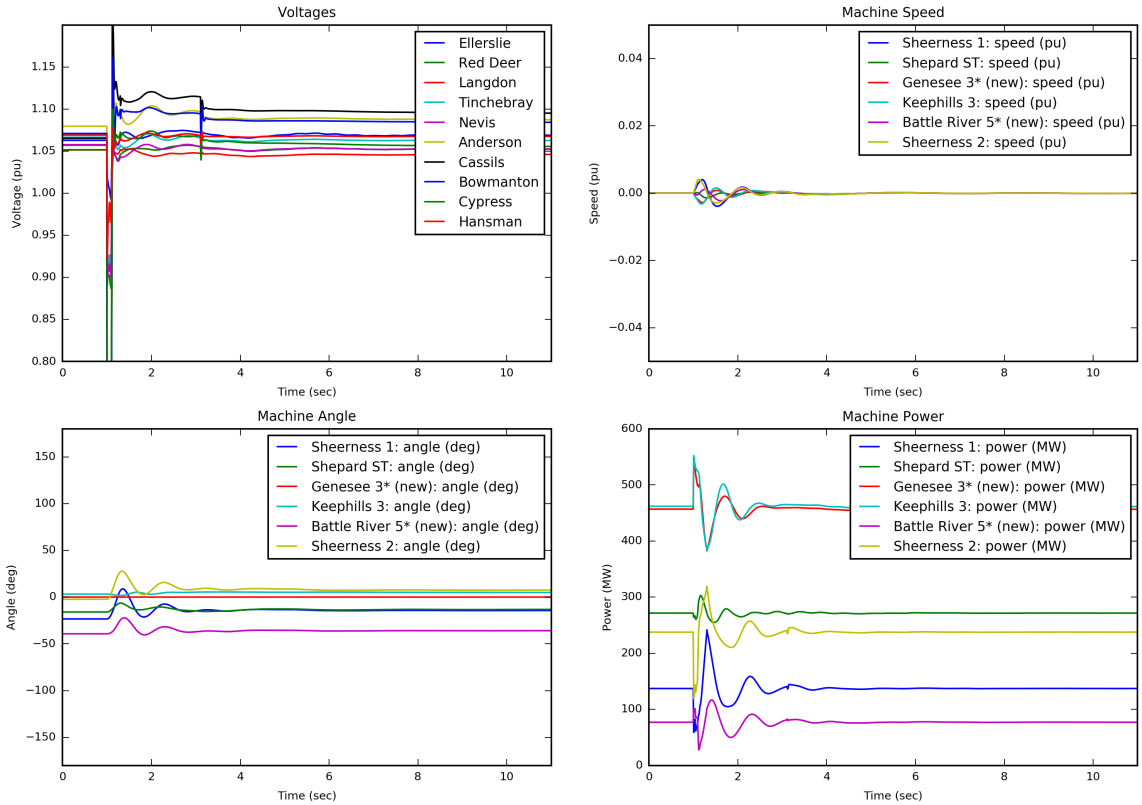
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault at Milo
- T = 1.1010 s: EATL runback to 500 MW activated
- T = 1.1010 s: Tripped 923L
- T = 1.1010 s: Tripped 935L
- T = 1.1010 s: Fault is cleared

Figure 59



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

— T = 1.0020 s: Applied 3-ph fault at Milo

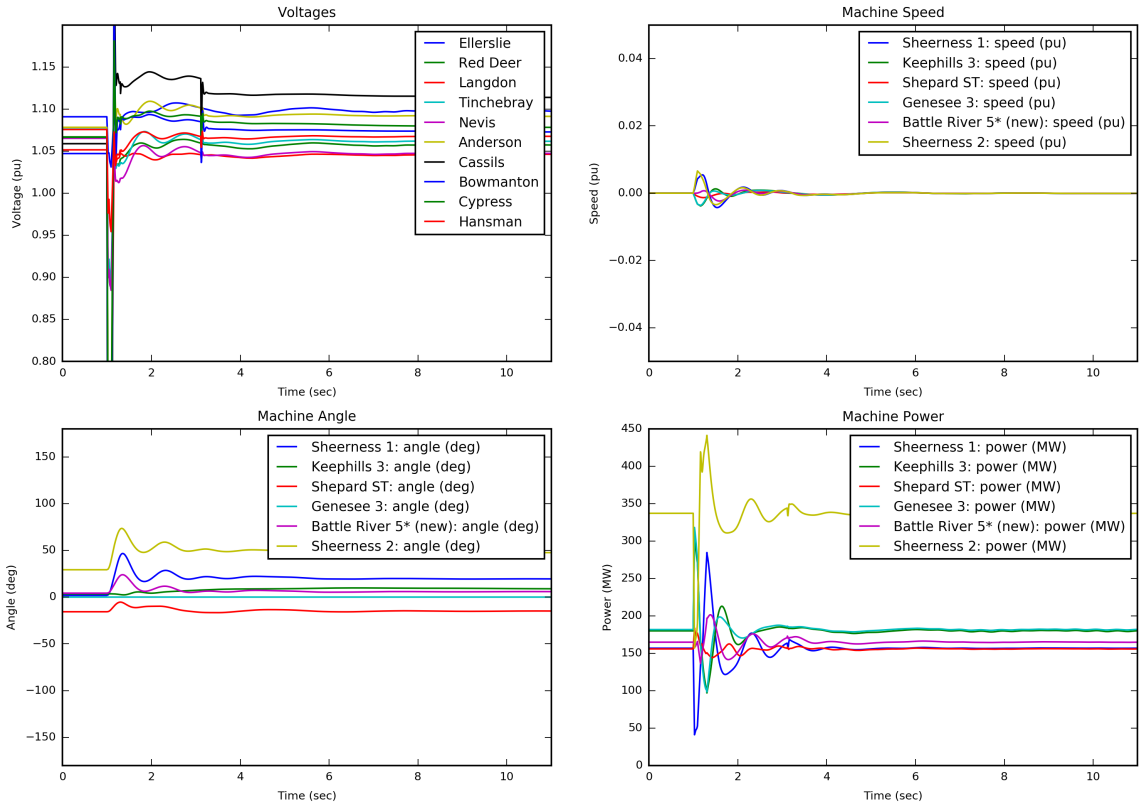
— T = 1.1010 s: Tripped 923L

— T = 1.1010 s: Tripped 935L

— T = 1.1010 s: Fault is cleared

— T = 1.1010 s: EATL runback to 500 MW activated

Figure 60



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

— T = 1.0020 s: Applied 3-ph fault at Milo

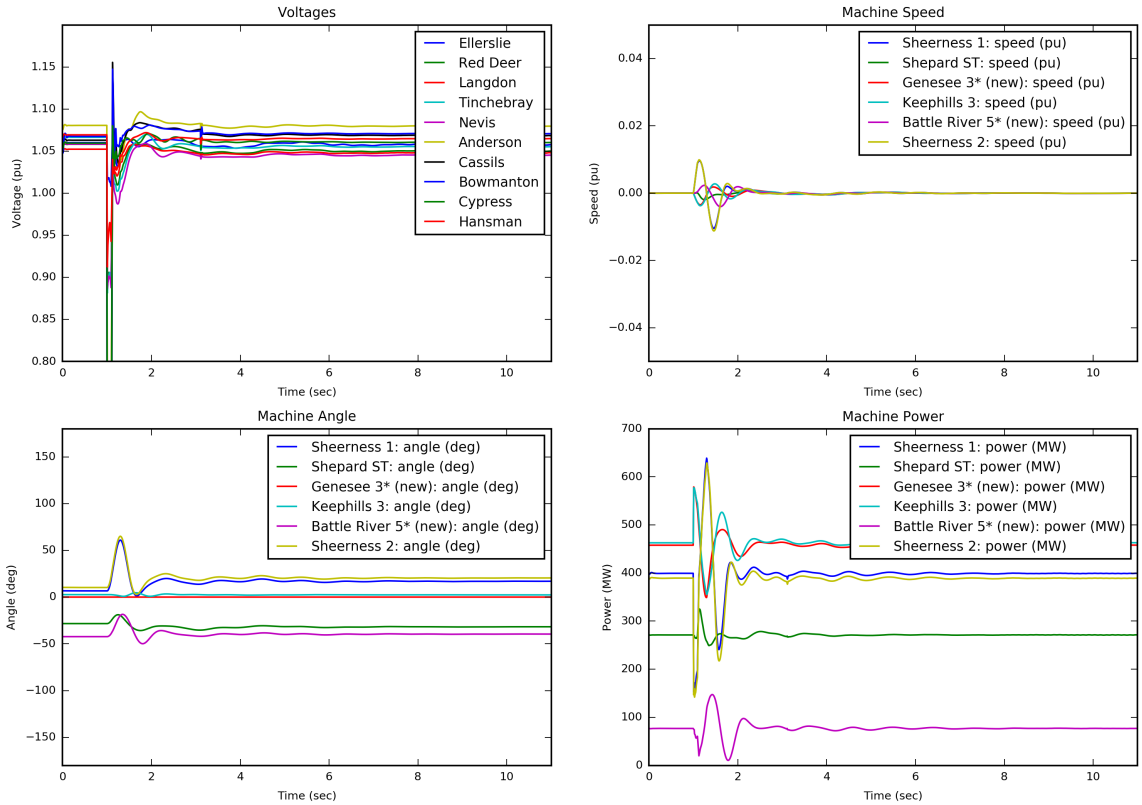
— T = 1.1010 s: Tripped 923L

— T = 1.1010 s: Tripped 935L

— T = 1.1010 s: Fault is cleared

— T = 1.1010 s: EATL runback to 500 MW activated

Figure 61



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

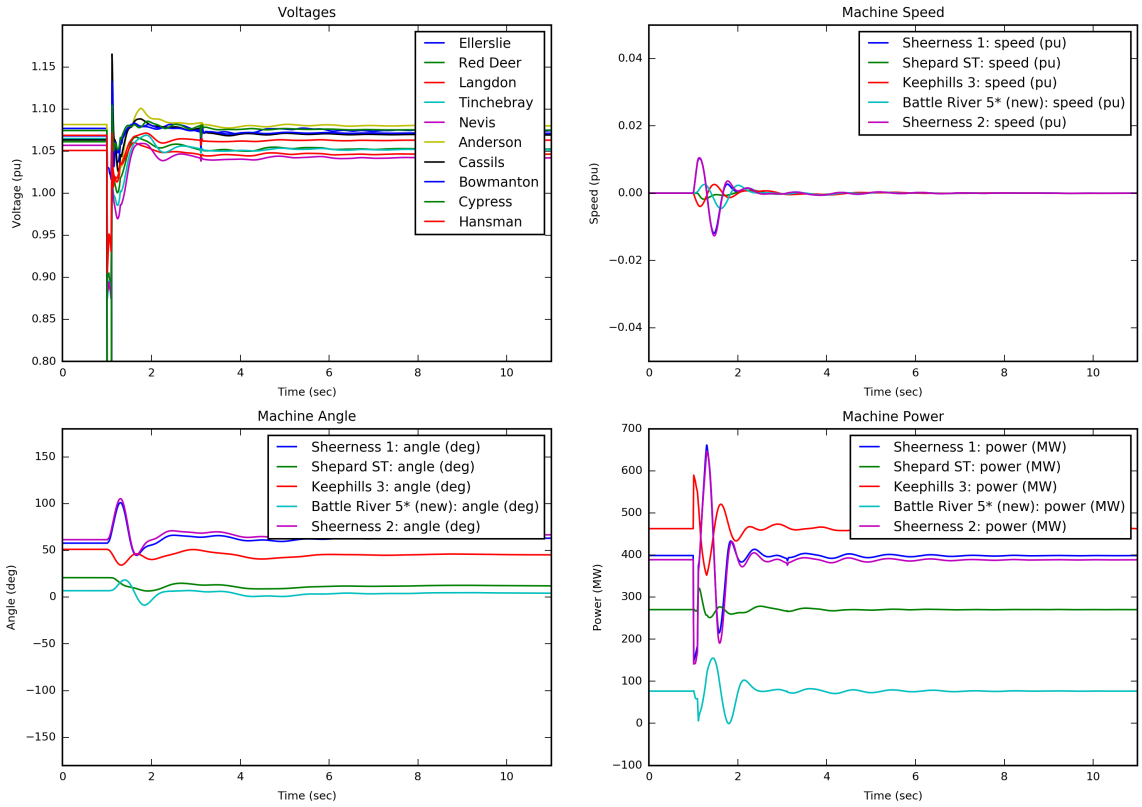
— T = 1.0020 s: Applied 3-ph fault at Milo

— T = 1.1010 s: Tripped 924L

— T = 1.1010 s: Tripped 927L

— T = 1.1010 s: Fault is cleared

Figure 62



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

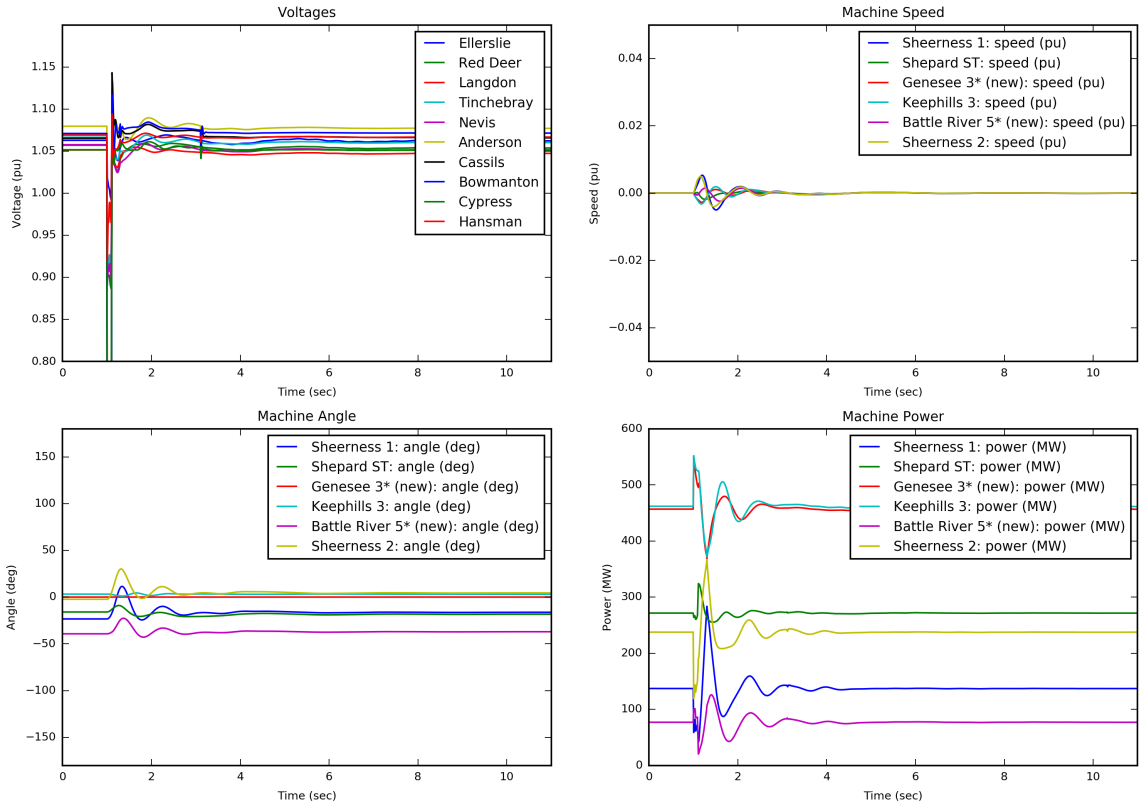
— T = 1.0020 s: Applied 3-ph fault at Milo

— T = 1.1010 s: Tripped 924L

— T = 1.1010 s: Tripped 927L

— T = 1.1010 s: Fault is cleared

Figure 63



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

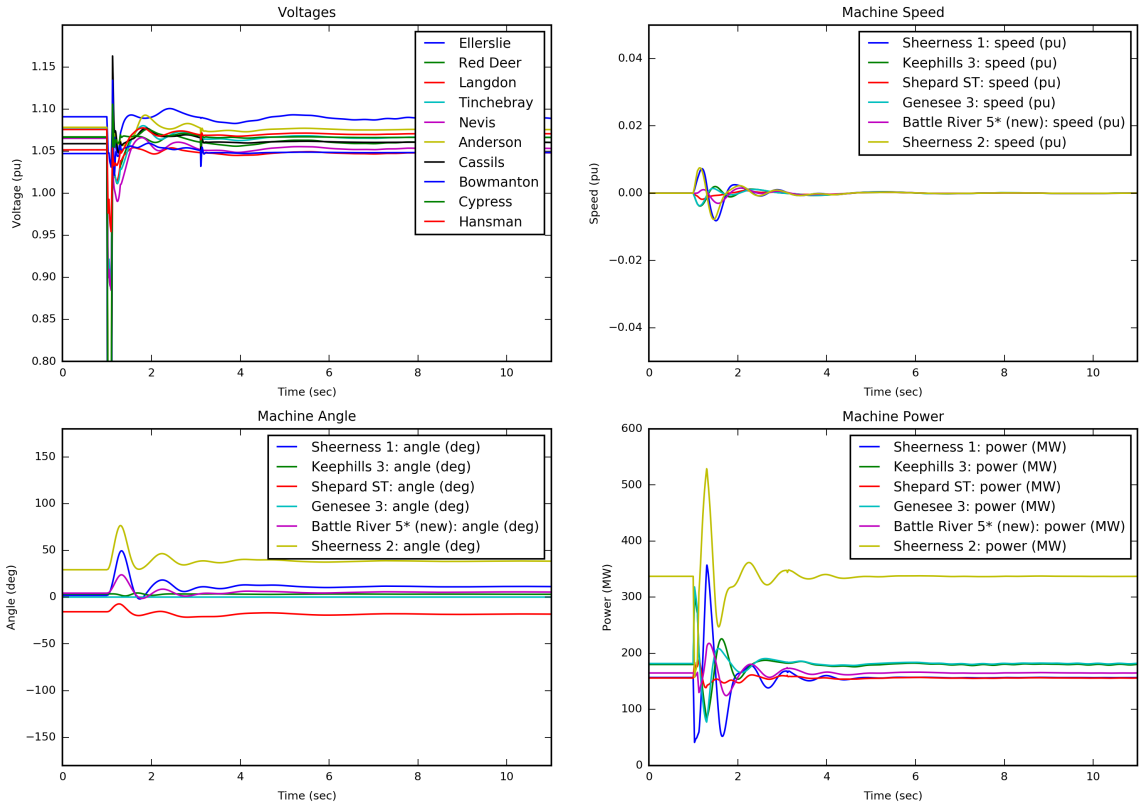
— T = 1.0020 s: Applied 3-ph fault at Milo

— T = 1.1010 s: Tripped 924L

— T = 1.1010 s: Tripped 927L

— T = 1.1010 s: Fault is cleared

Figure 64



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

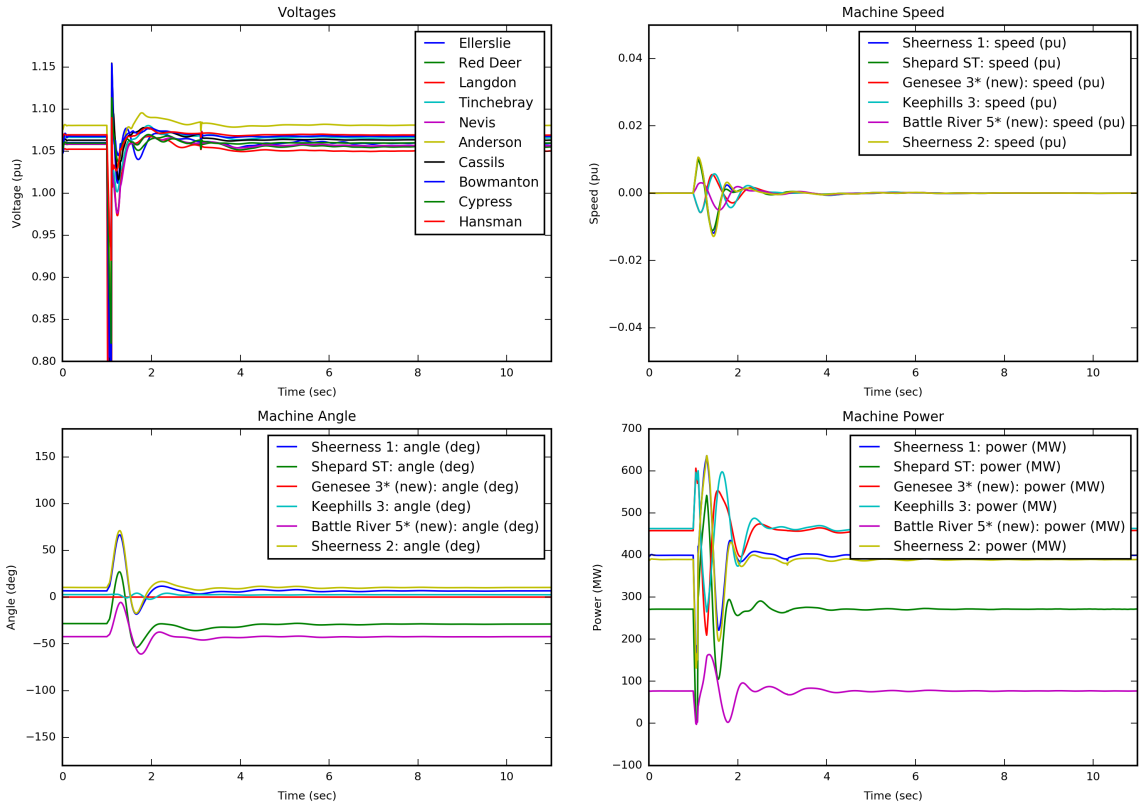
— T = 1.0020 s: Applied 3-ph fault at Milo

— T = 1.1010 s: Tripped 924L

— T = 1.1010 s: Tripped 927L

— T = 1.1010 s: Fault is cleared

Figure 65



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

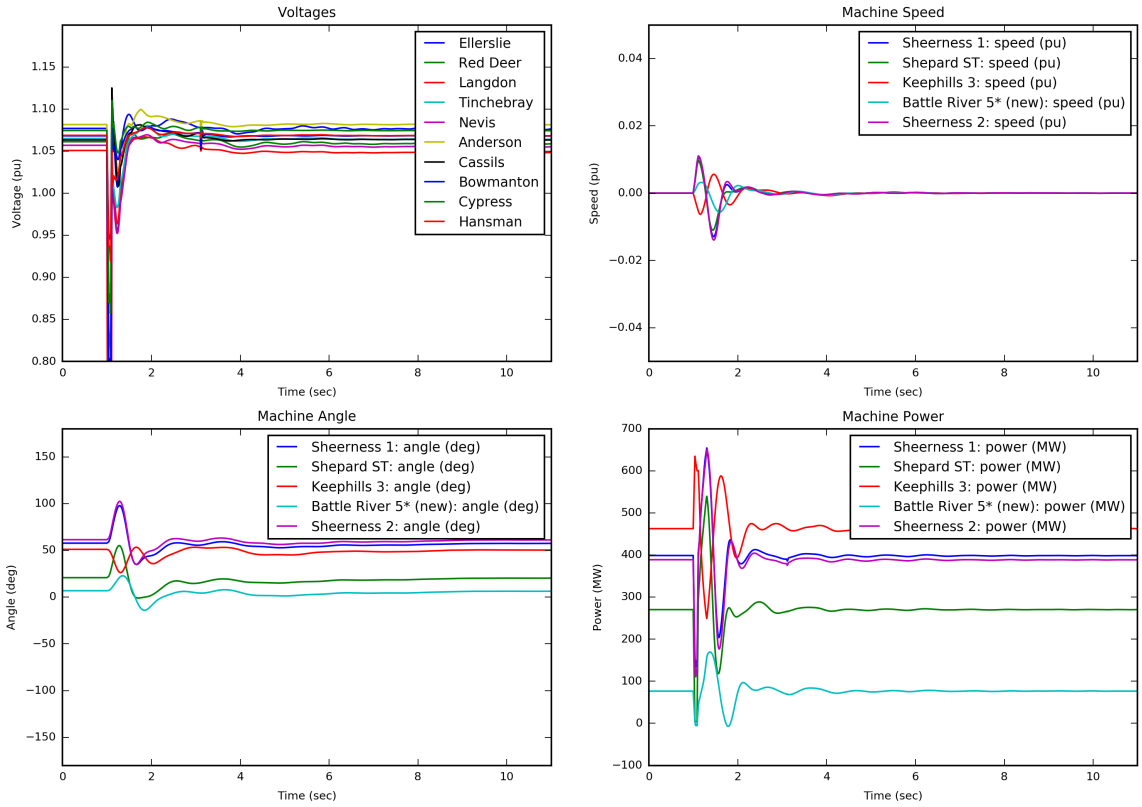
— T = 1.0020 s: Applied 3-ph fault at Janet

— T = 1.1010 s: Tripped 925L

— T = 1.1010 s: Tripped 929L

— T = 1.1010 s: Fault is cleared

Figure 66



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

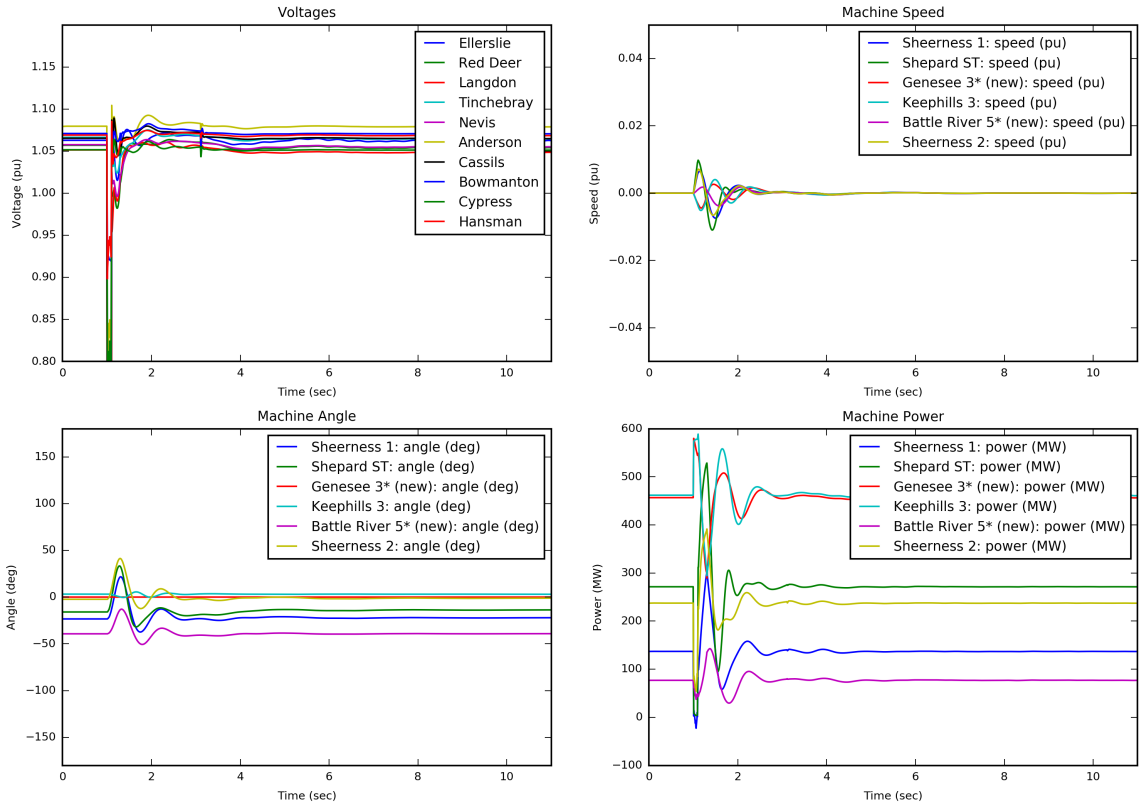
— T = 1.0020 s: Applied 3-ph fault at Janet

— T = 1.1010 s: Tripped 925L

— T = 1.1010 s: Tripped 929L

— T = 1.1010 s: Fault is cleared

Figure 67



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

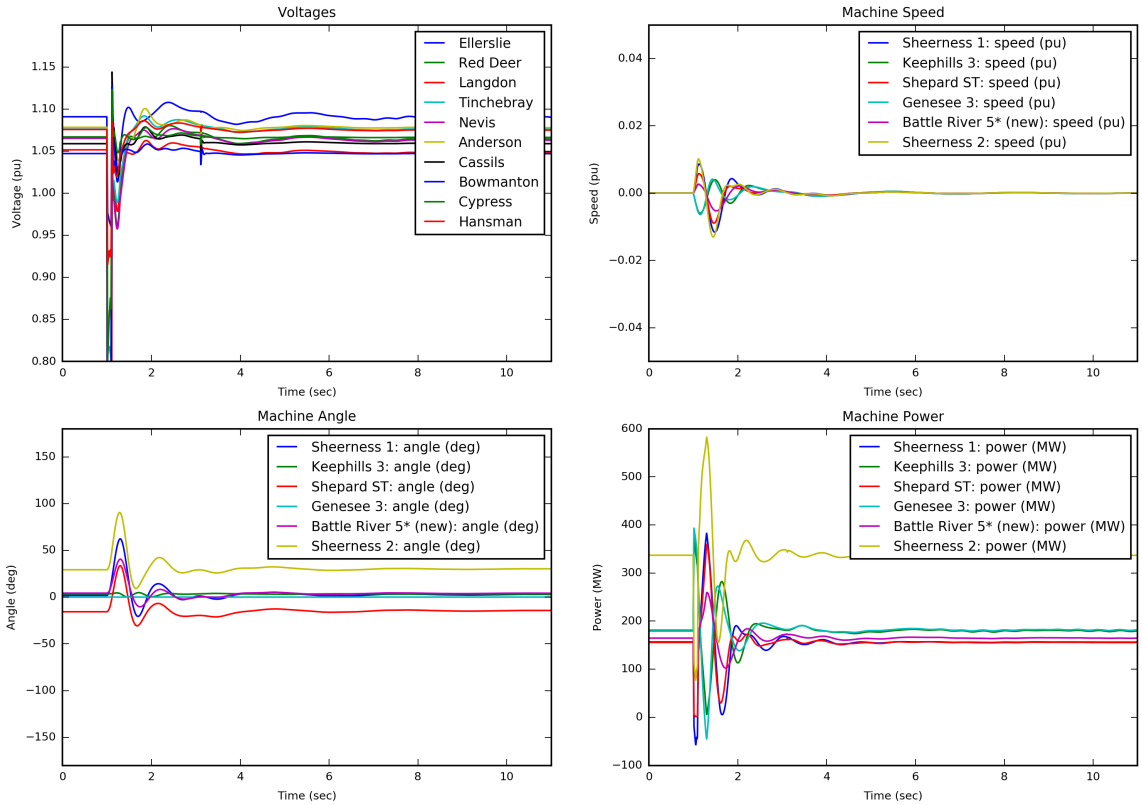
— T = 1.0020 s: Applied 3-ph fault at Janet

— T = 1.1010 s: Tripped 925L

— T = 1.1010 s: Tripped 929L

— T = 1.1010 s: Fault is cleared

Figure 68



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

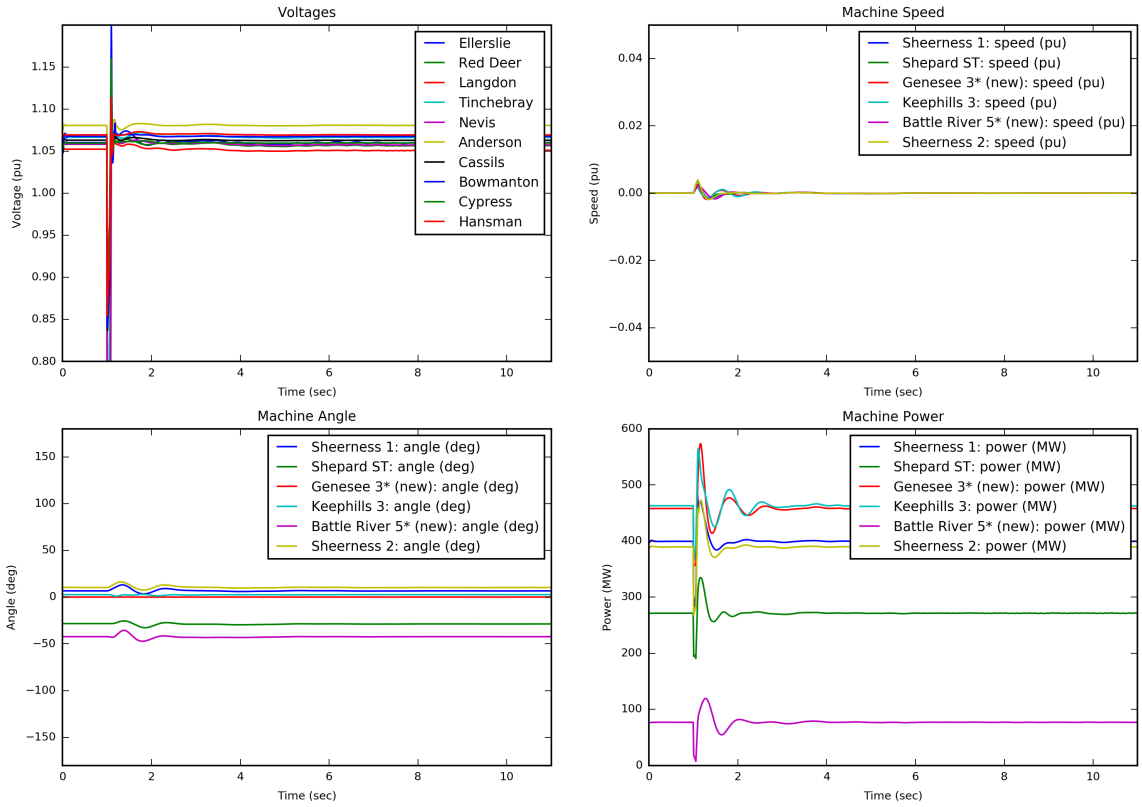
— T = 1.0020 s: Applied 3-ph fault at Janet

— T = 1.1010 s: Tripped 925L

— T = 1.1010 s: Tripped 929L

— T = 1.1010 s: Fault is cleared

Figure 69



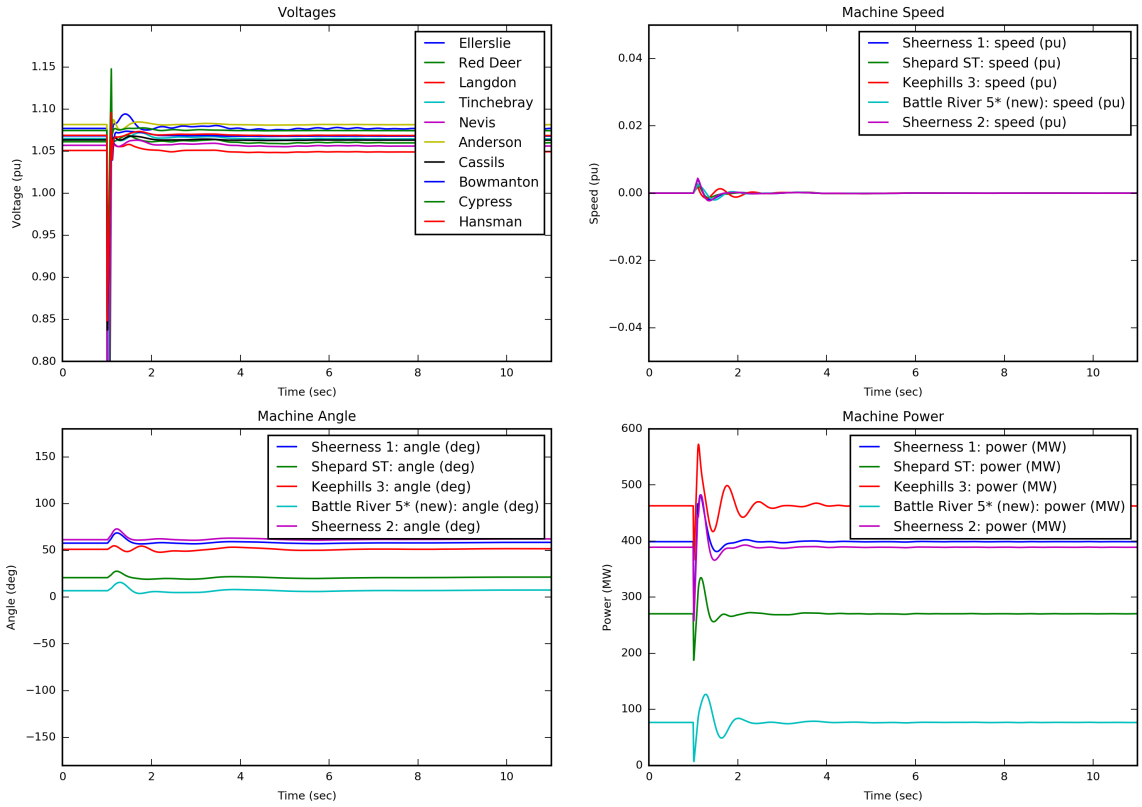
Case Description

- Study case: 2023 H4; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 925L (Red Deer - Janet) near Red Deer
- T = 1.0920 s: Tripped 925L (Red Deer - Janet)
- T = 1.0920 s: Fault is cleared
- T = 1.0920 s: Opened both breakers

Figure 70



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

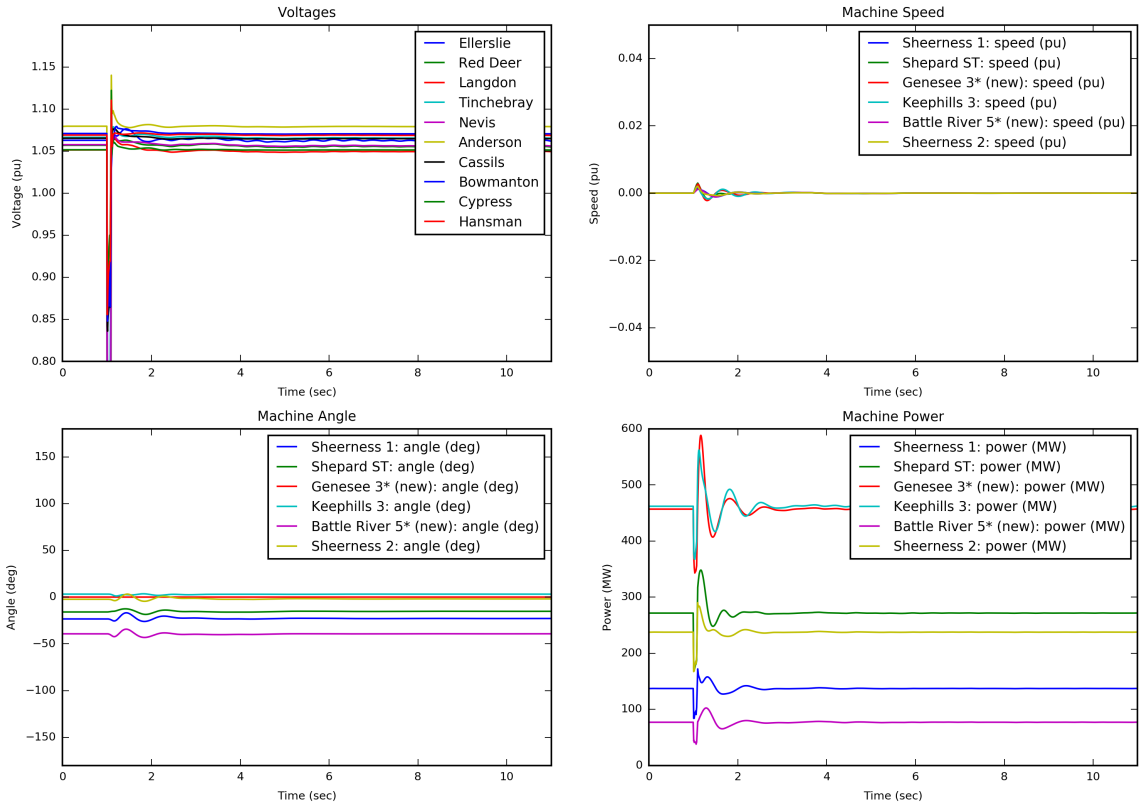
— T = 1.0020 s: Applied 3-ph fault on 925L (Red Deer - Janet) near Red Deer

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 925L (Red Deer - Janet)

— T = 1.0920 s: Fault is cleared

Figure 71



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

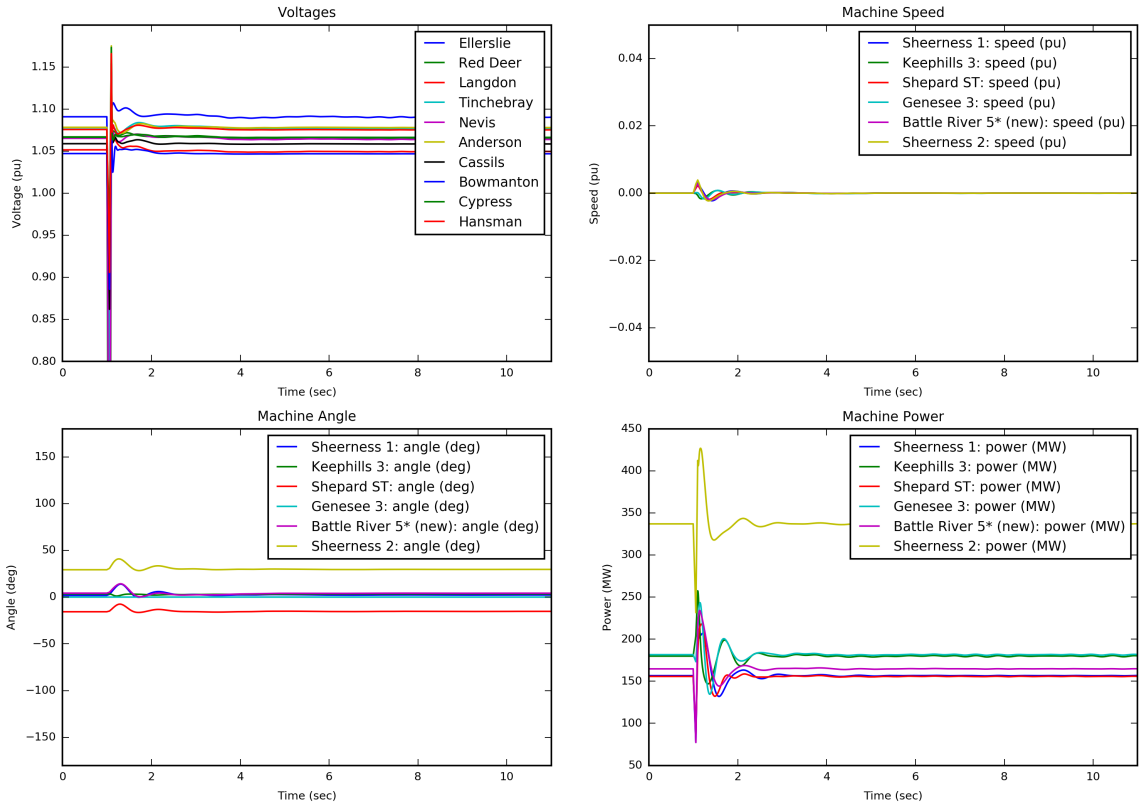
— T = 1.0020 s: Applied 3-ph fault on 925L (Red Deer - Janet) near Red Deer

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 925L (Red Deer - Janet)

— T = 1.0920 s: Fault is cleared

Figure 72



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

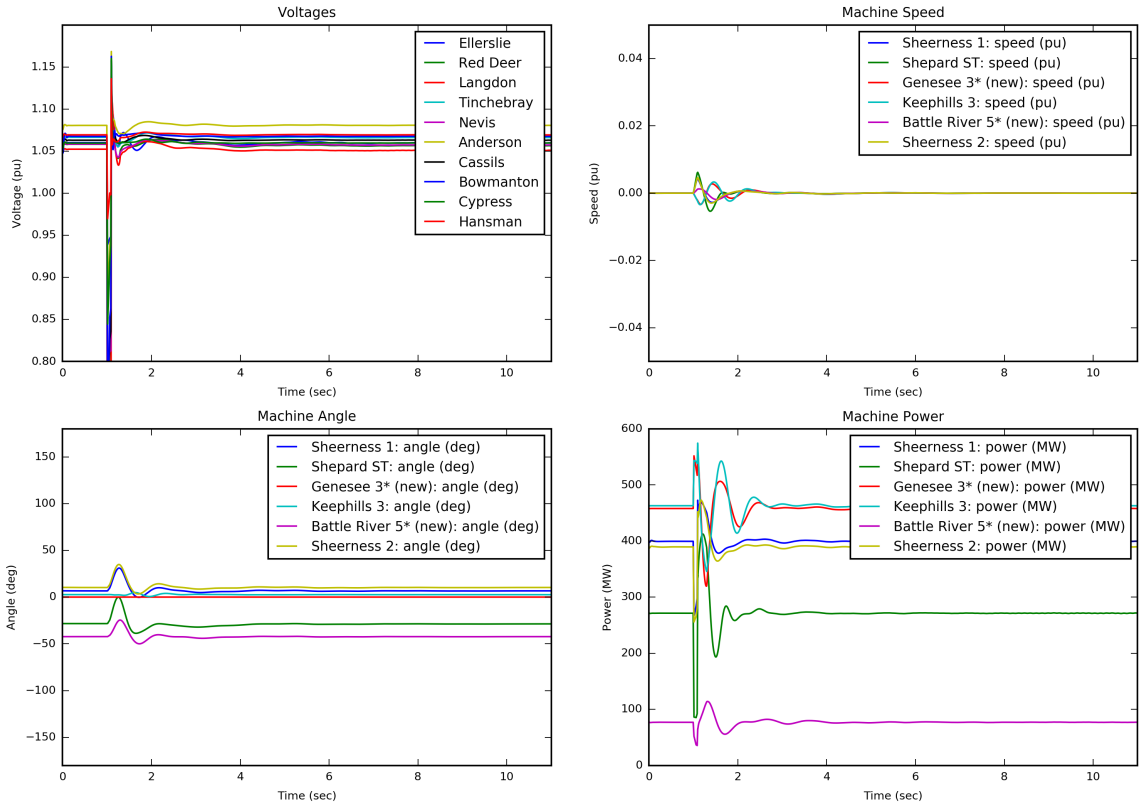
— T = 1.0020 s: Applied 3-ph fault on 925L (Red Deer - Janet) near Red Deer

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 925L (Red Deer - Janet)

— T = 1.0920 s: Fault is cleared

Figure 73



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

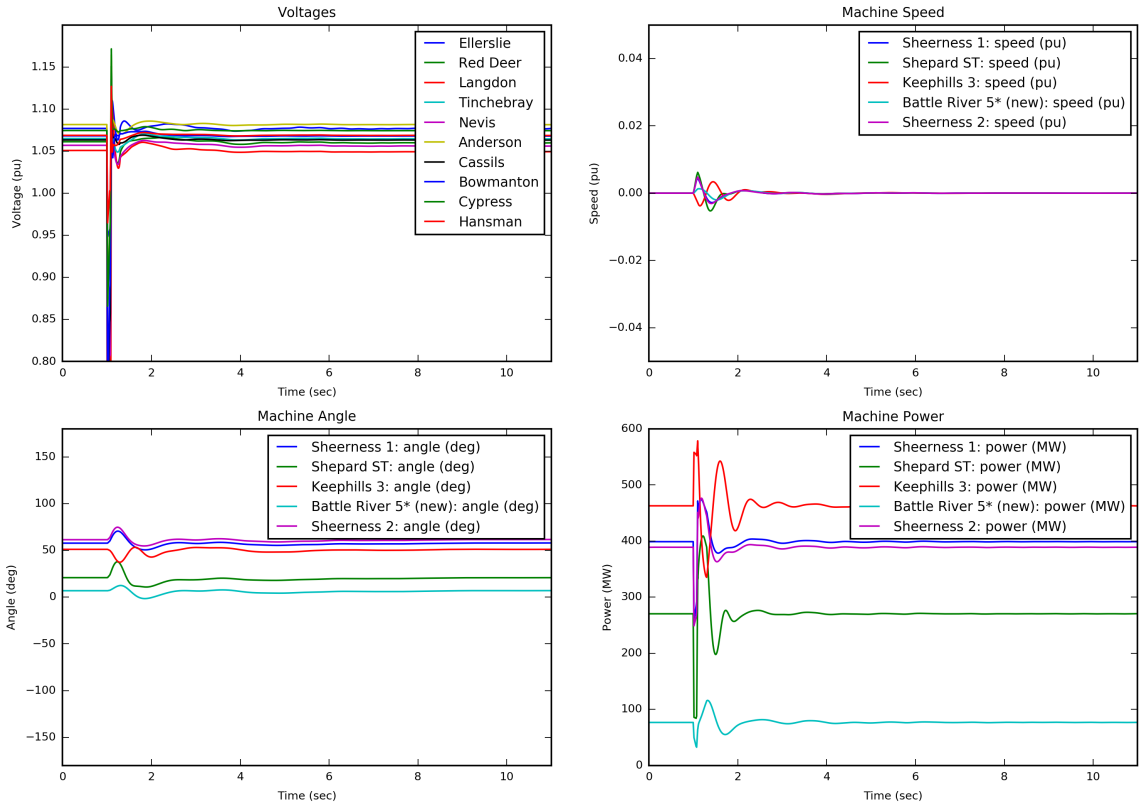
— T = 1.0020 s: Applied 3-ph fault on 925L (Janet - Red Deer) near Janet

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 925L (Janet - Red Deer)

— T = 1.0920 s: Fault is cleared

Figure 74



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

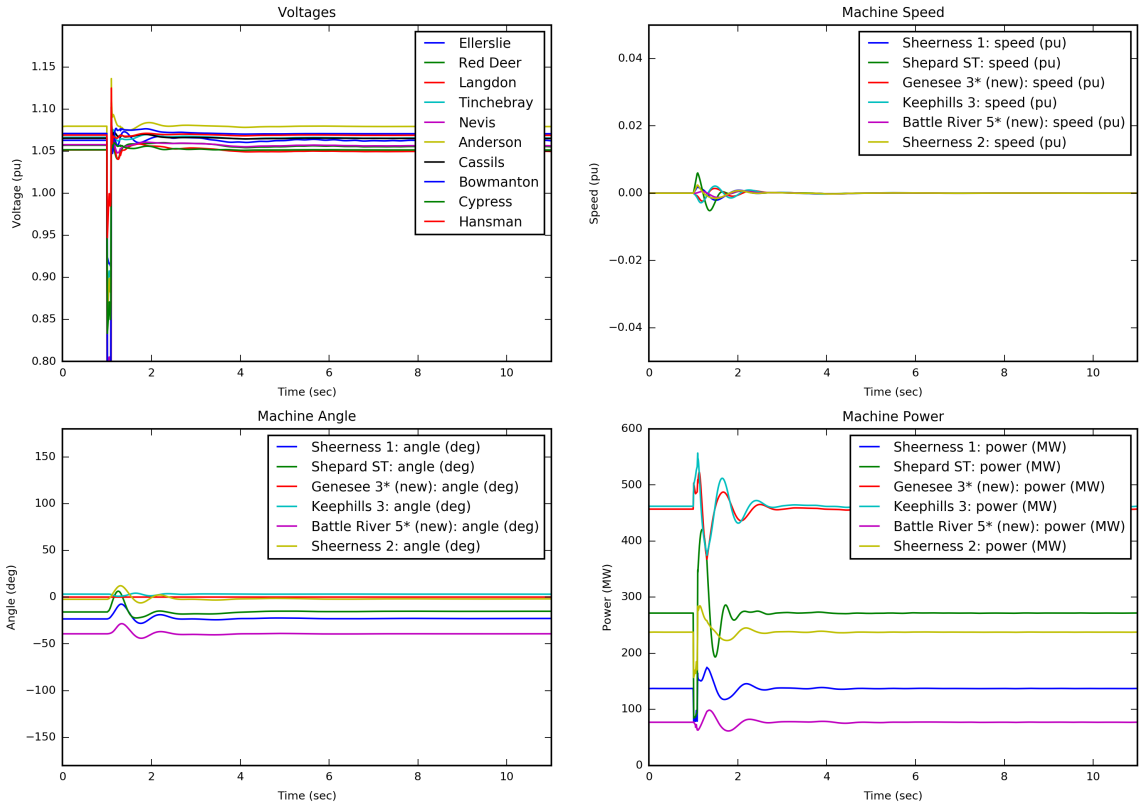
— T = 1.0020 s: Applied 3-ph fault on 925L (Janet - Red Deer) near Janet

— T = 1.0920 s: Tripped 925L (Janet - Red Deer)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 75



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

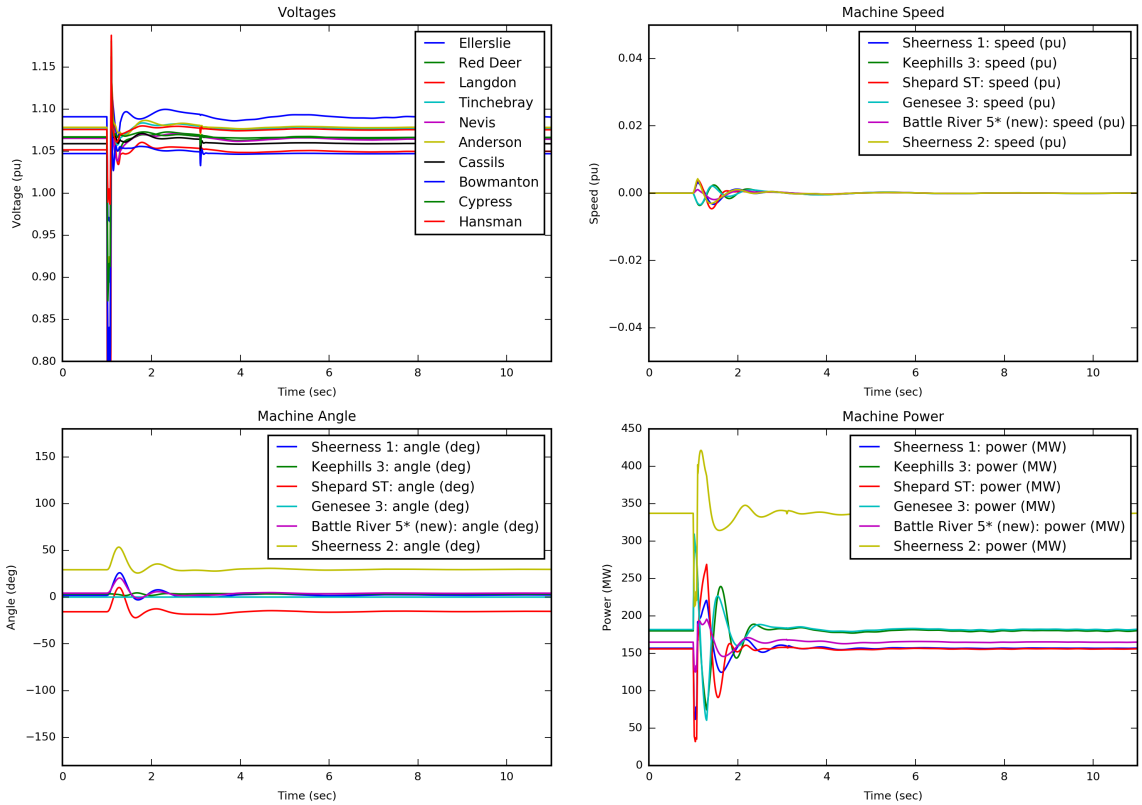
— T = 1.0020 s: Applied 3-ph fault on 925L (Janet - Red Deer) near Janet

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 925L (Janet - Red Deer)

— T = 1.0920 s: Fault is cleared

Figure 76



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

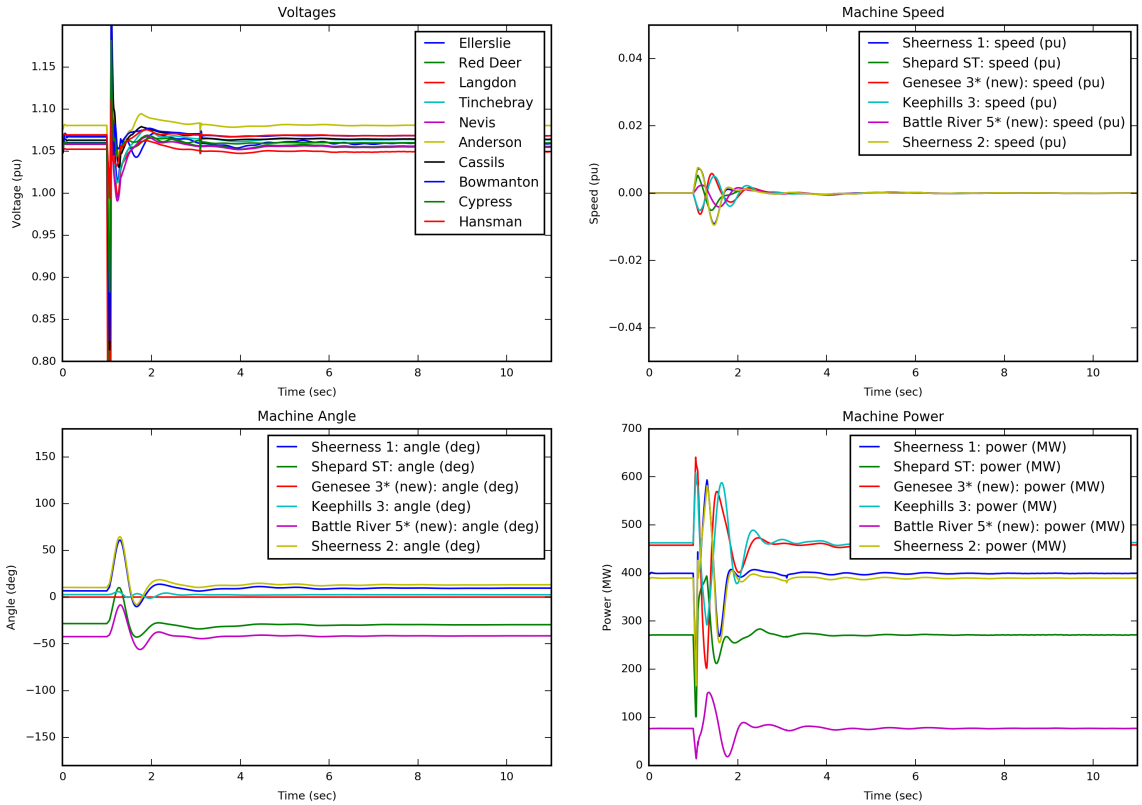
— T = 1.0020 s: Applied 3-ph fault on 925L (Janet - Red Deer) near Janet

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 925L (Janet - Red Deer)

— T = 1.0920 s: Fault is cleared

Figure 77



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

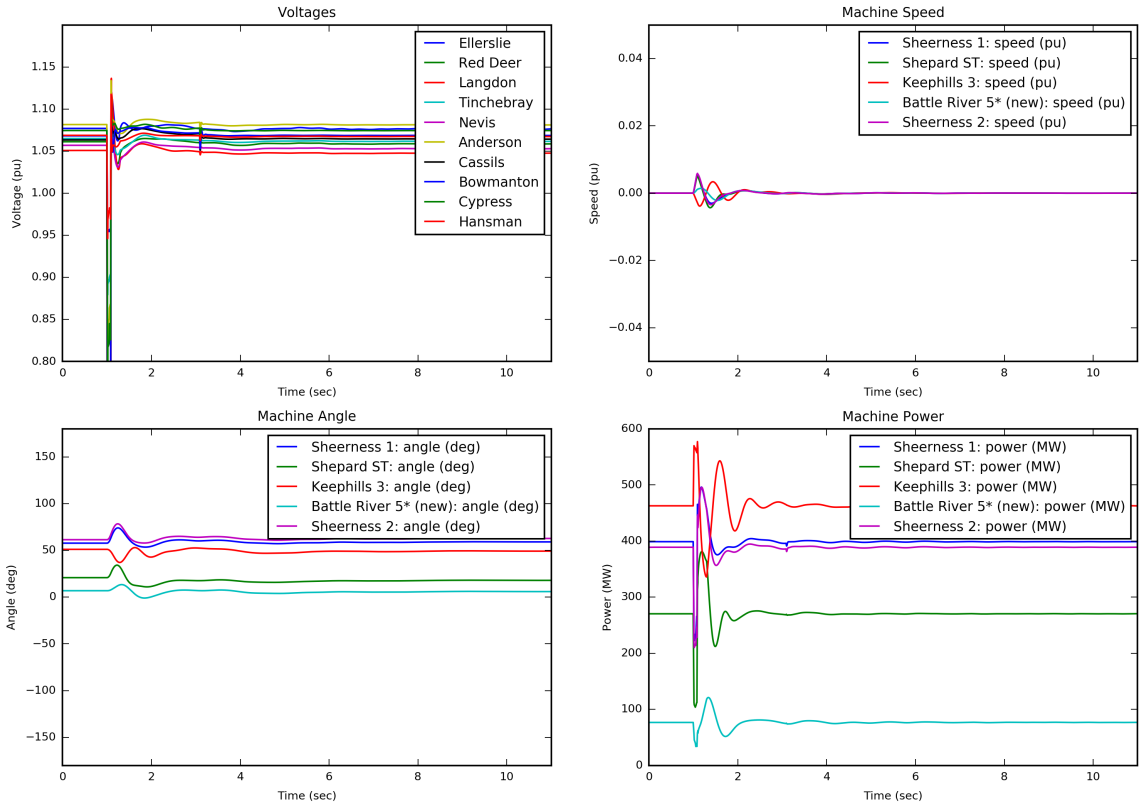
— T = 1.0020 s: Applied 3-ph fault on 927L (Langdon - Milo) near Langdon

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 927L (Langdon - Milo)

— T = 1.1010 s: Fault is cleared

Figure 78



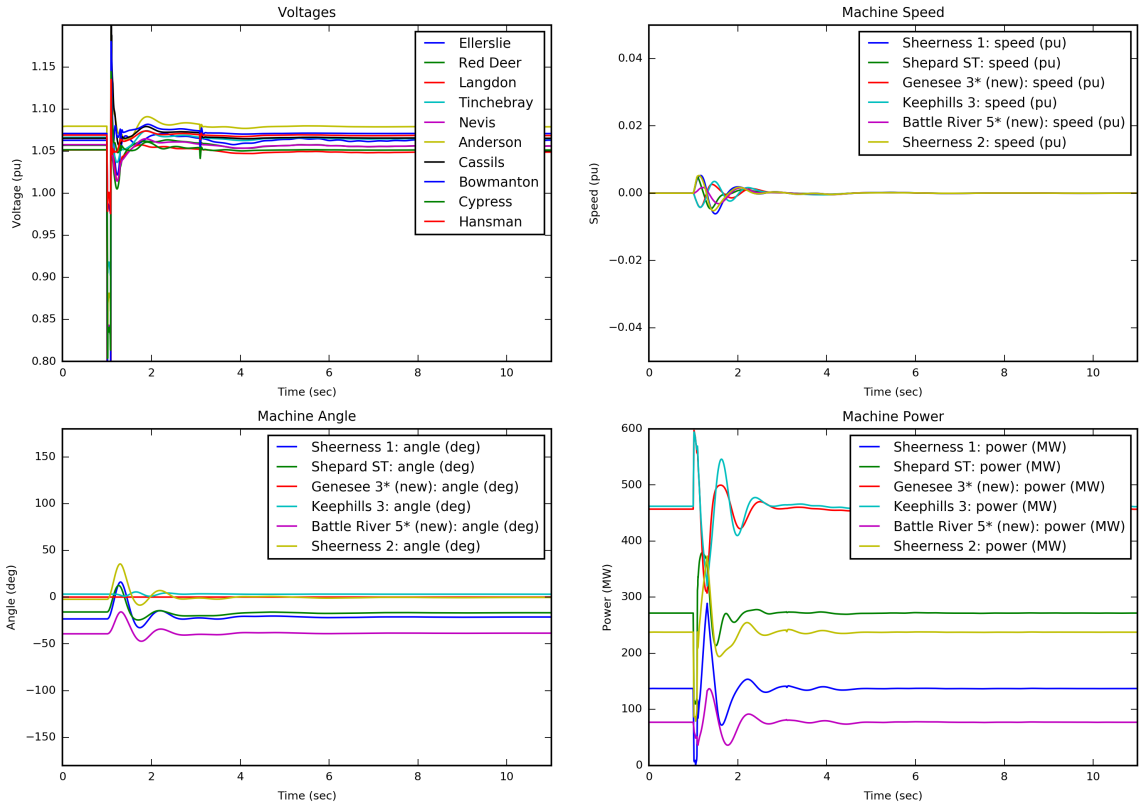
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 927L (Langdon - Milo) near Langdon
- T = 1.0860 s: Opened near end breaker
- T = 1.1010 s: Tripped 927L (Langdon - Milo)
- T = 1.1010 s: Fault is cleared

Figure 79



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

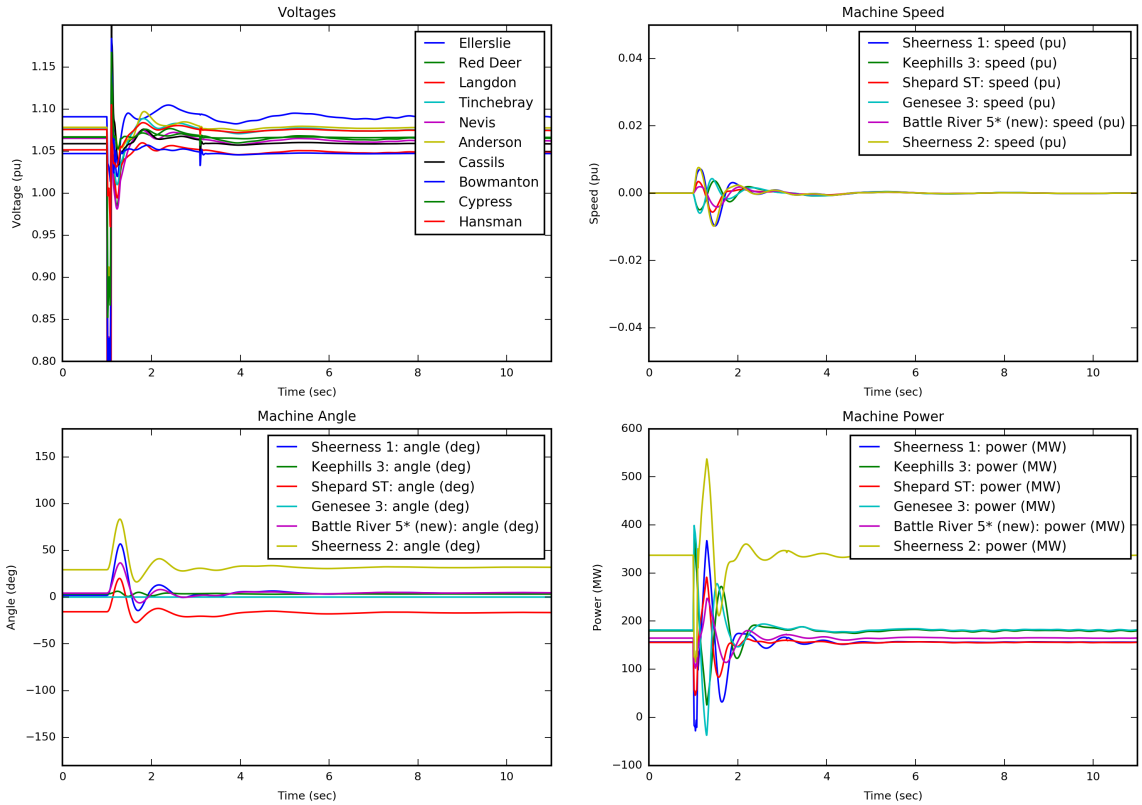
— T = 1.0020 s: Applied 3-ph fault on 927L (Langdon - Milo) near Langdon

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 927L (Langdon - Milo)

— T = 1.1010 s: Fault is cleared

Figure 80



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

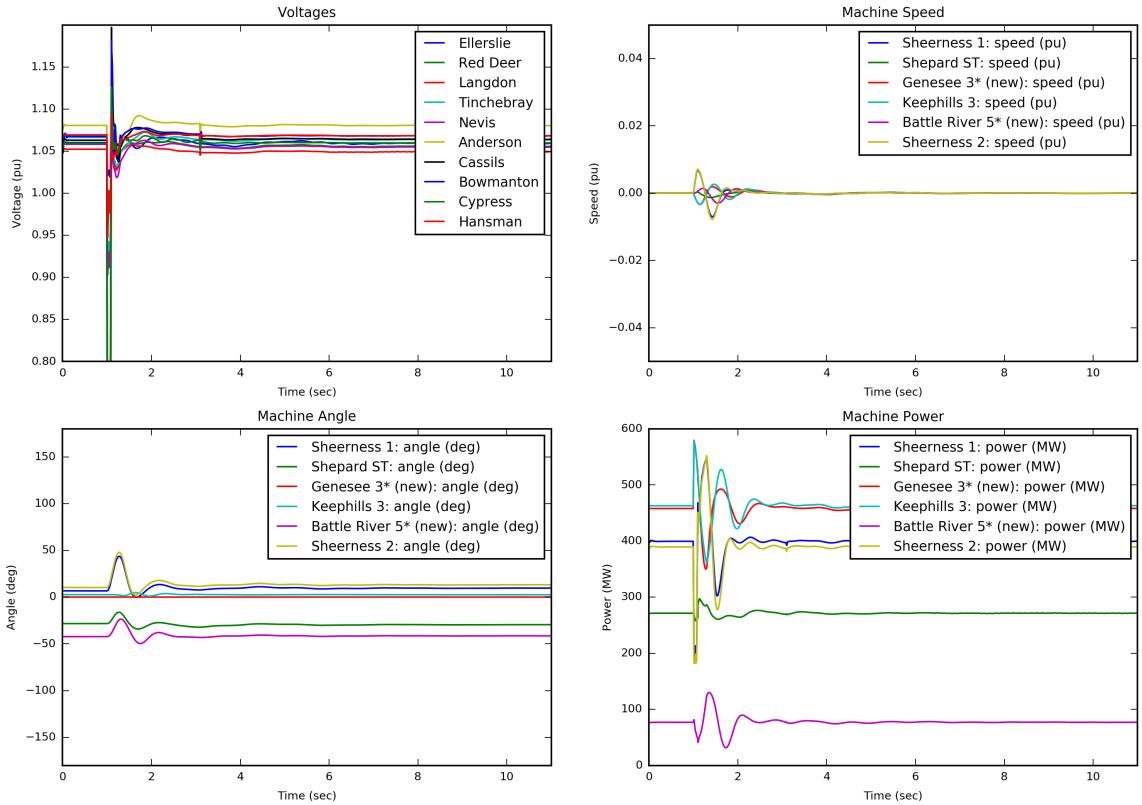
— T = 1.0020 s: Applied 3-ph fault on 927L (Langdon - Milo) near Langdon

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 927L (Langdon - Milo)

— T = 1.1010 s: Fault is cleared

Figure 81



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

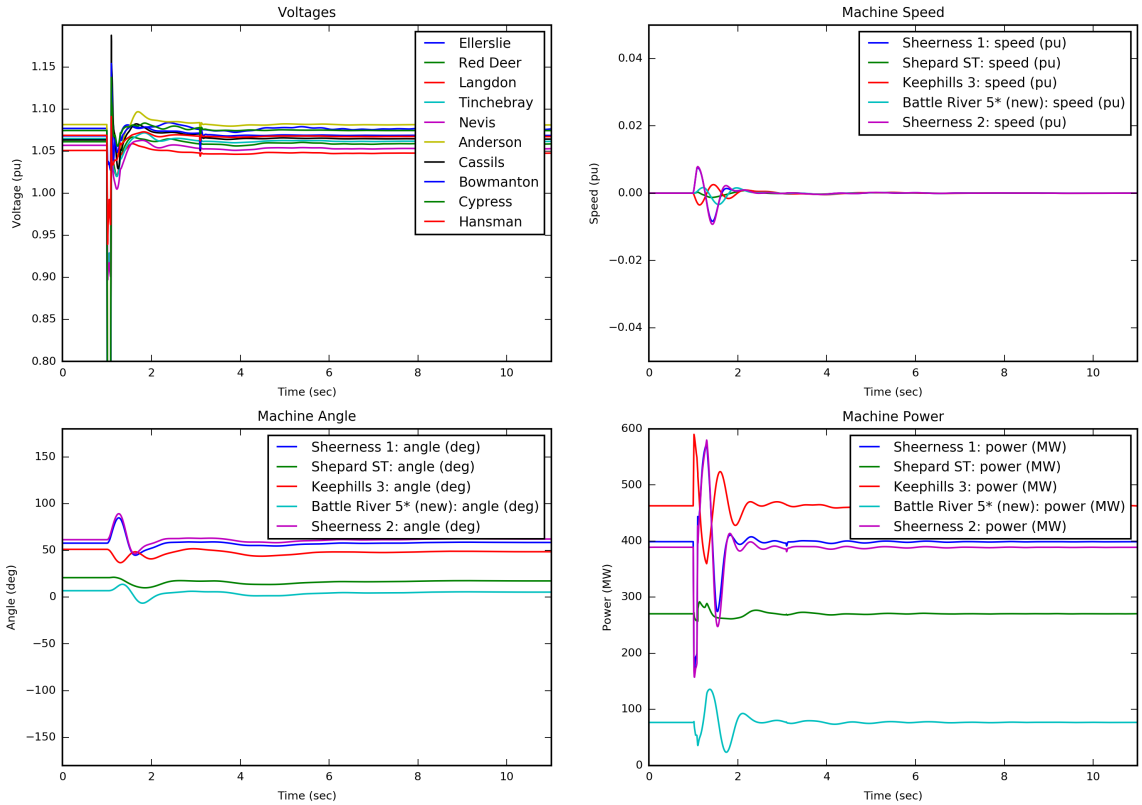
— T = 1.0020 s: Applied 3-ph fault on 927L (Milo - Langdon) near Milo

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 927L (Milo - Langdon)

— T = 1.1010 s: Fault is cleared

Figure 82



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

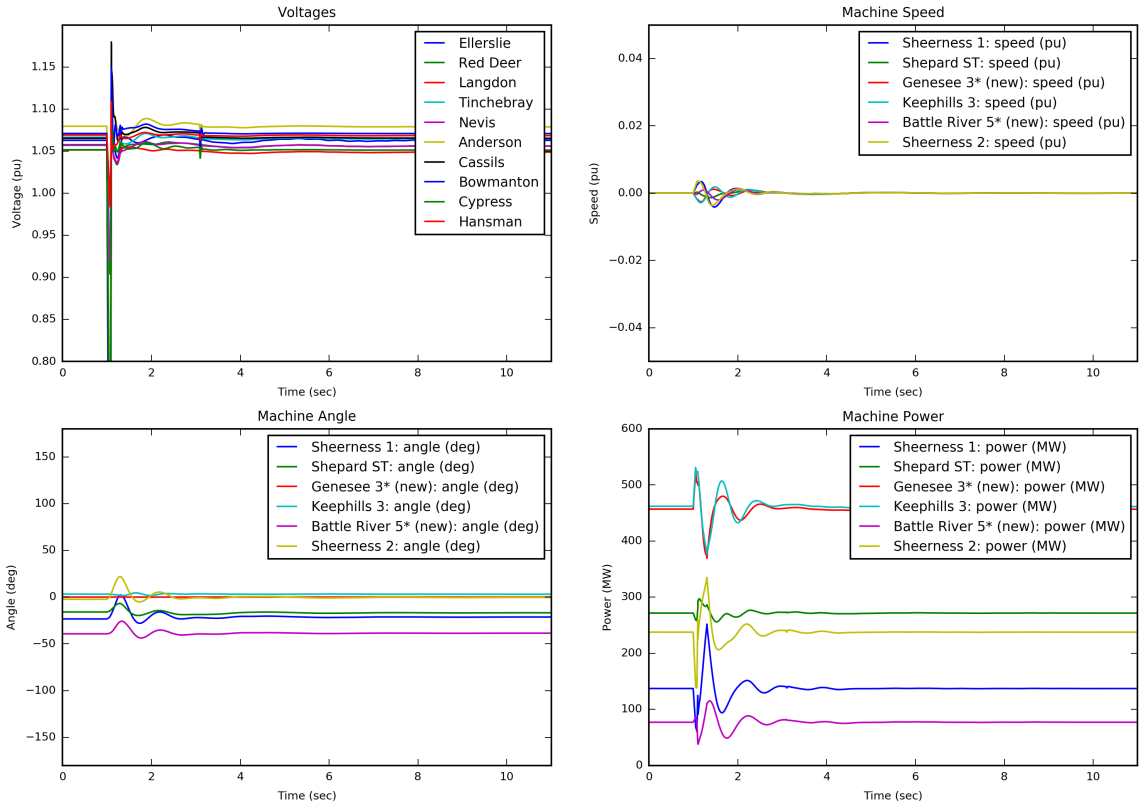
— T = 1.0020 s: Applied 3-ph fault on 927L (Milo - Langdon) near Milo

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 927L (Milo - Langdon)

— T = 1.1010 s: Fault is cleared

Figure 83



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

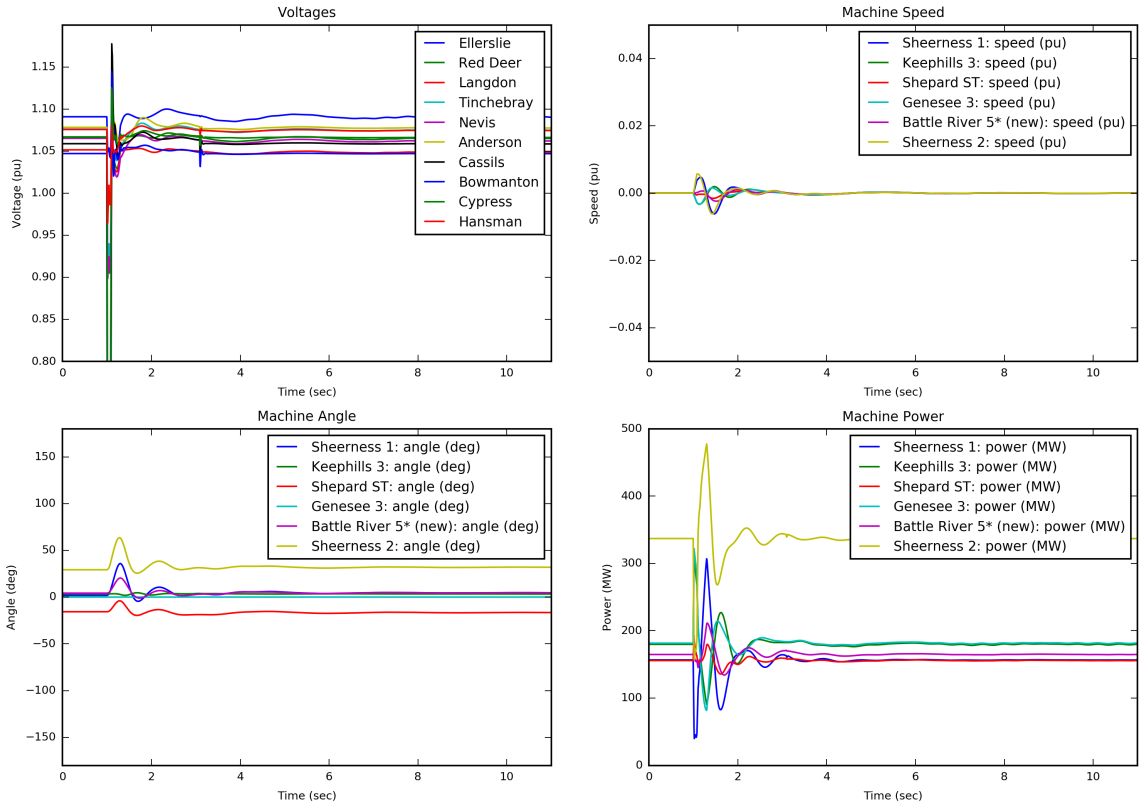
— T = 1.0020 s: Applied 3-ph fault on 927L (Milo - Langdon) near Milo

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 927L (Milo - Langdon)

— T = 1.1010 s: Fault is cleared

Figure 84



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

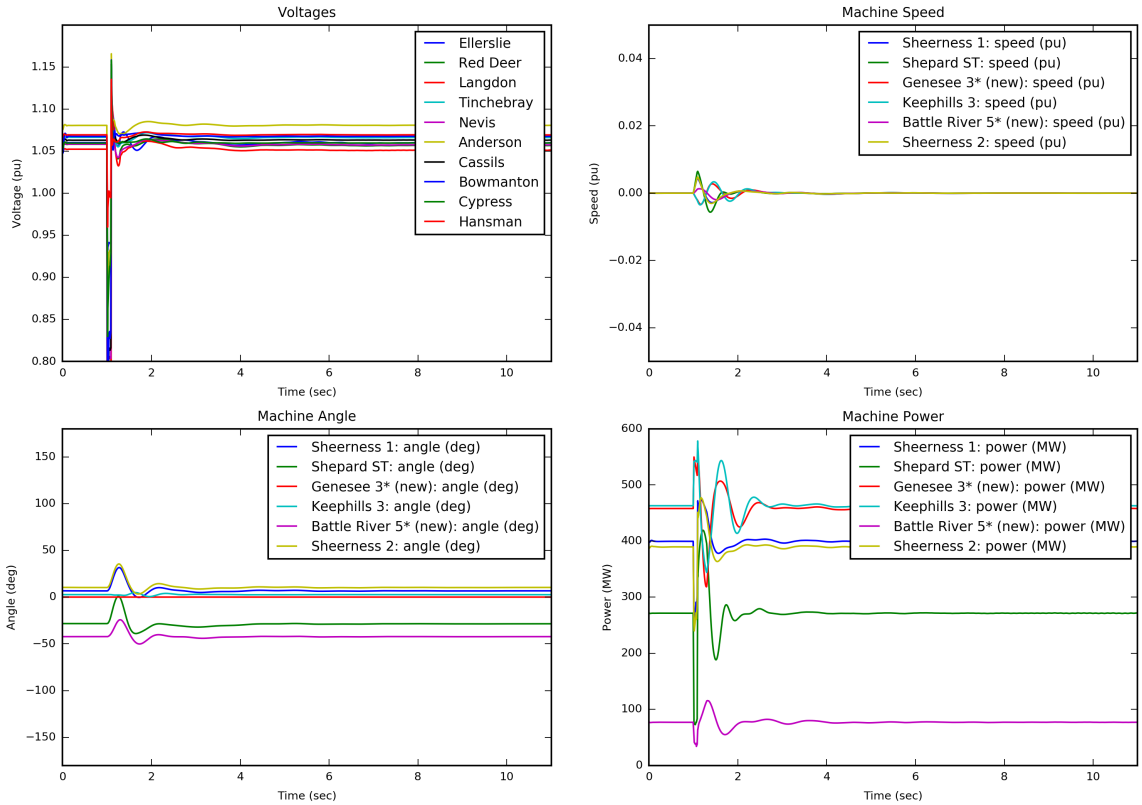
— T = 1.0020 s: Applied 3-ph fault on 927L (Milo - Langdon) near Milo

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 927L (Milo - Langdon)

— T = 1.1010 s: Fault is cleared

Figure 85



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

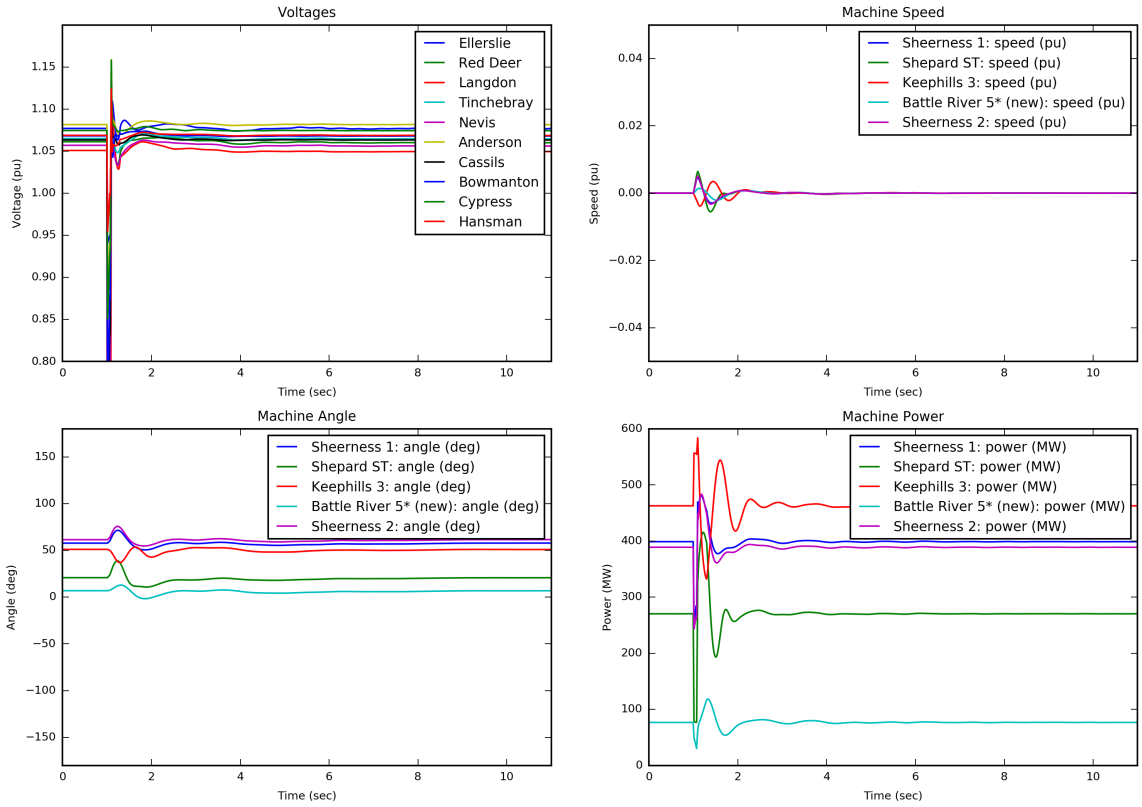
— T = 1.0020 s: Applied 3-ph fault on 929L (Janet - Hazelwood) near Janet

— T = 1.0920 s: Tripped 929L (Janet - Hazelwood)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 86



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

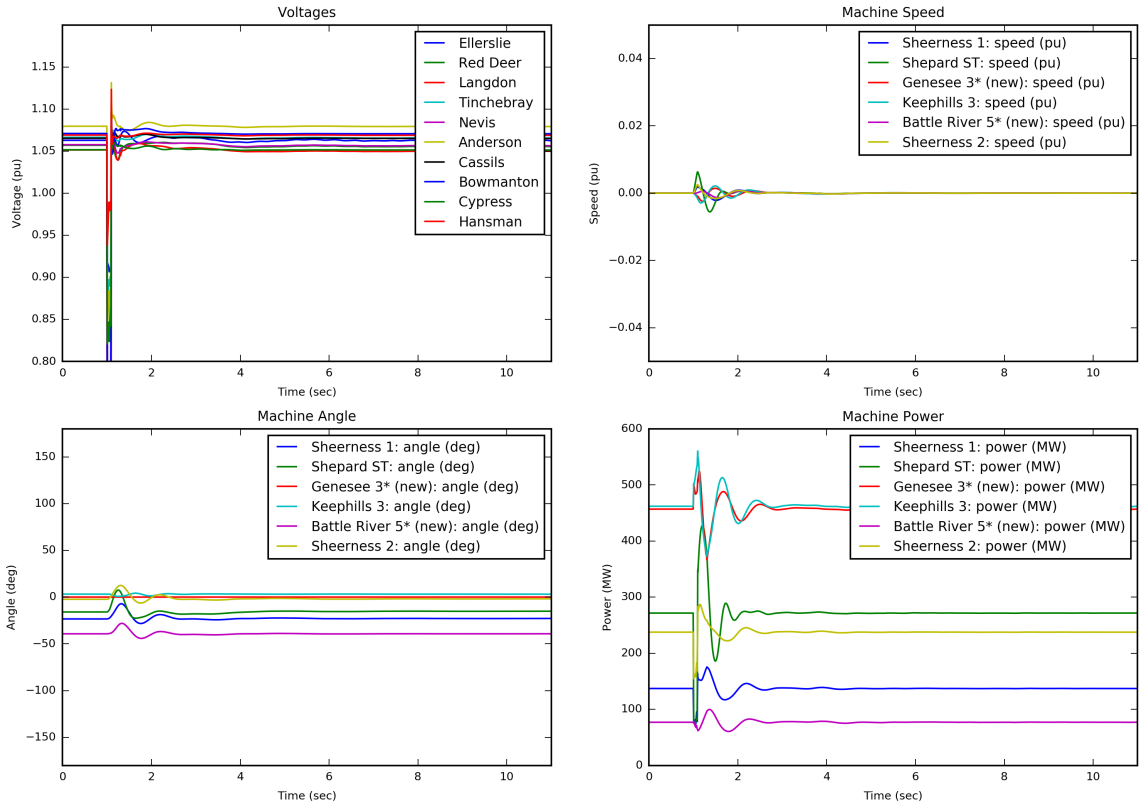
— T = 1.0020 s: Applied 3-ph fault on 929L (Janet - Hazelwood) near Janet

— T = 1.0920 s: Tripped 929L (Janet - Hazelwood)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 87



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

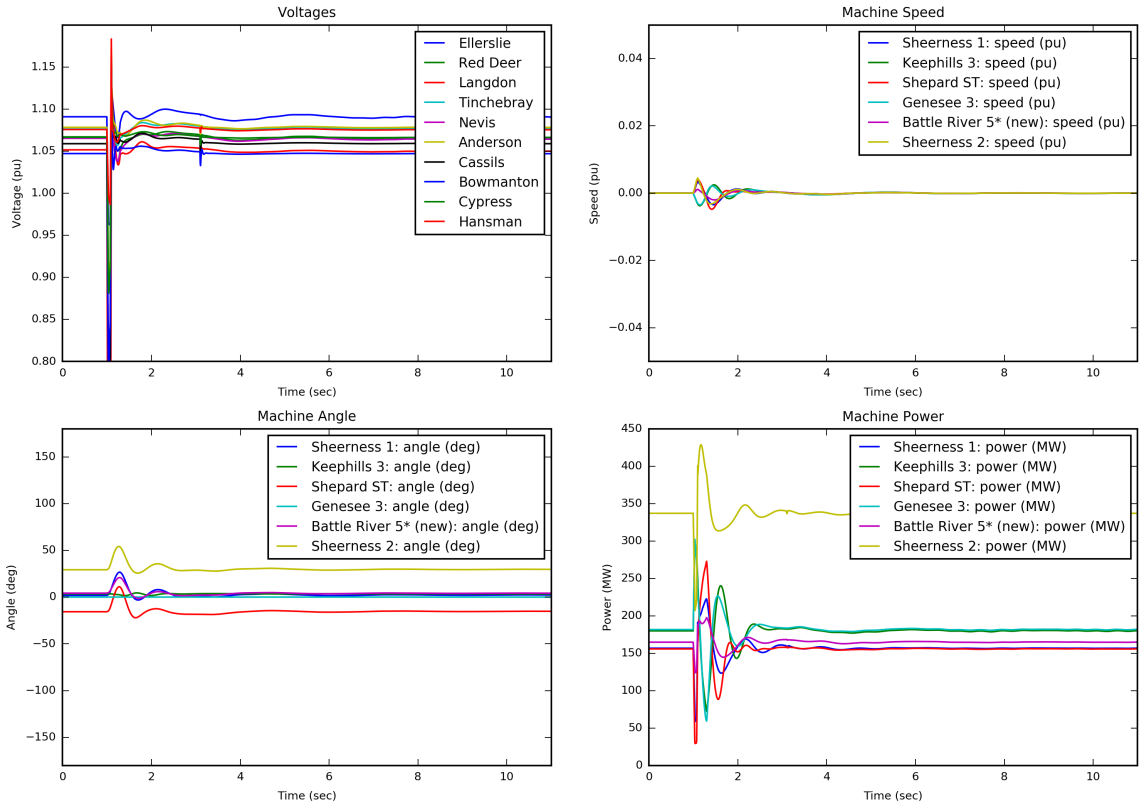
— T = 1.0020 s: Applied 3-ph fault on 929L (Janet - Hazelwood) near Janet

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 929L (Janet - Hazelwood)

— T = 1.0920 s: Fault is cleared

Figure 88



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

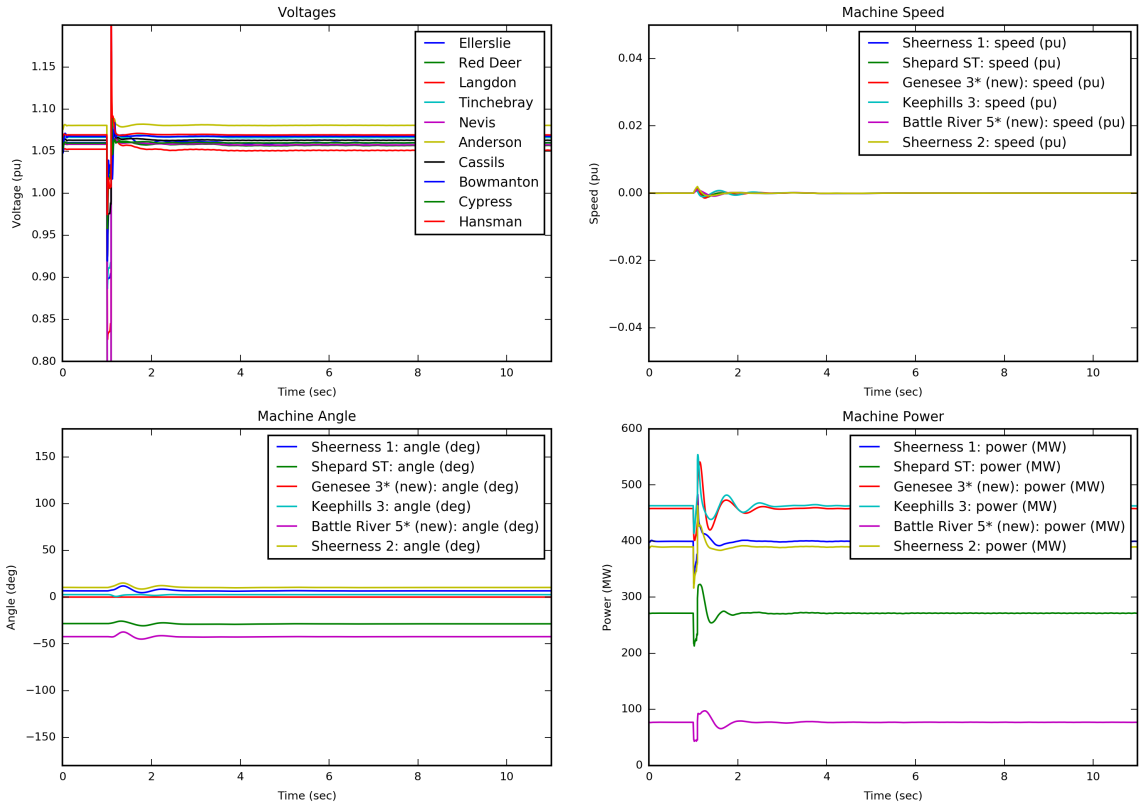
— T = 1.0020 s: Applied 3-ph fault on 929L (Janet - Hazelwood) near Janet

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 929L (Janet - Hazelwood)

— T = 1.0920 s: Fault is cleared

Figure 89



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

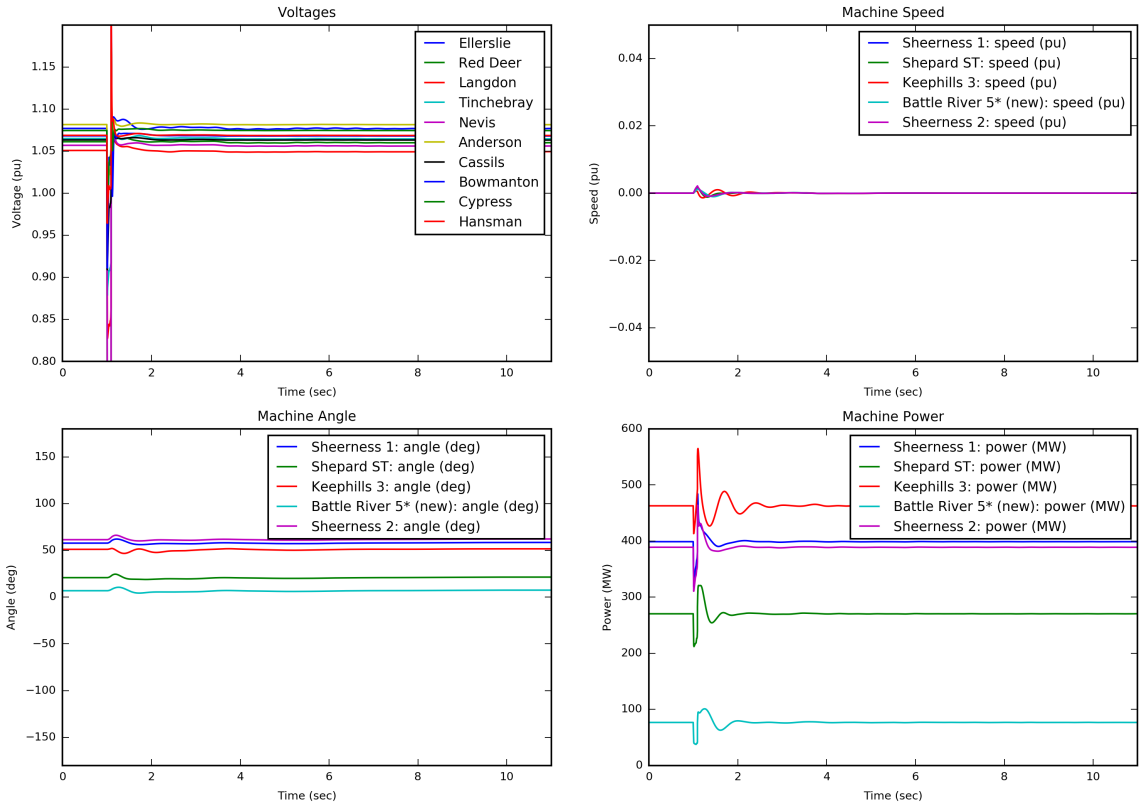
— T = 1.0020 s: Applied 3-ph fault on 929L (Hazelwood - Janet) near Hazelwood

— T = 1.0920 s: Tripped 929L (Hazelwood - Janet)

— T = 1.0920 s: Fault is cleared

— T = 1.0920 s: Opened both breakers

Figure 90



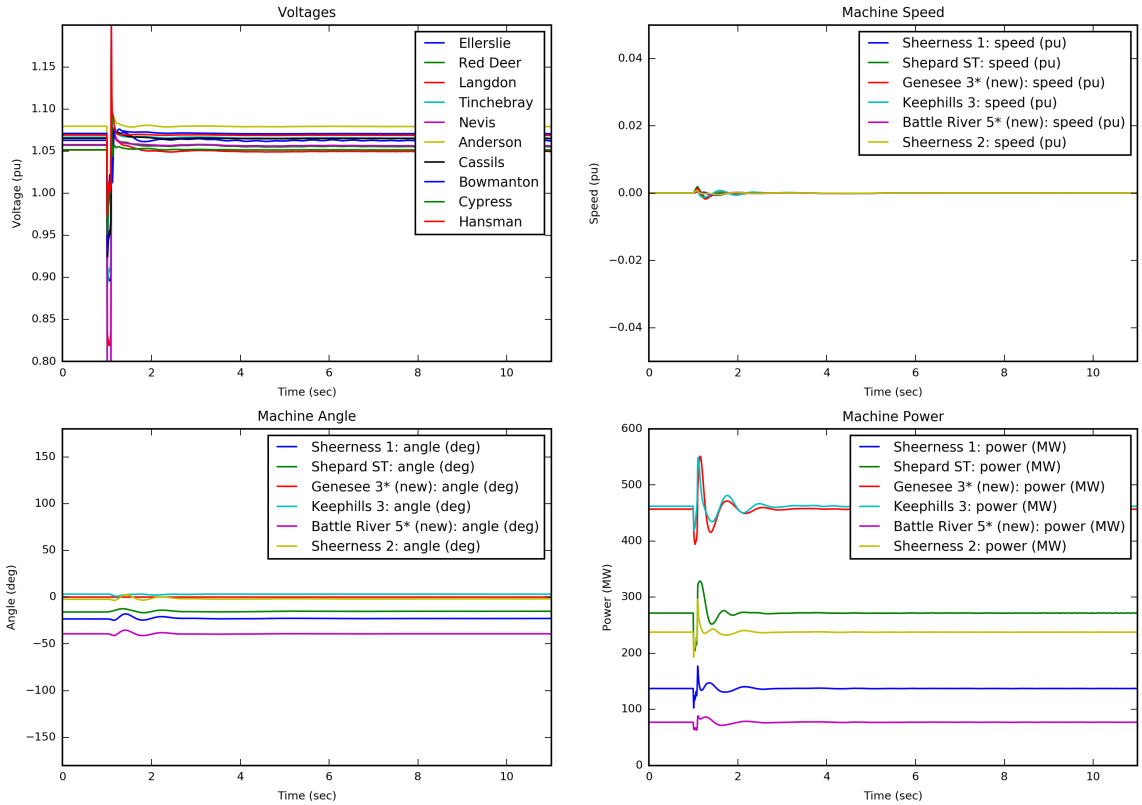
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 929L (Hazelwood - Janet) near Hazelwood
- T = 1.0920 s: Tripped 929L (Hazelwood - Janet)
- T = 1.0920 s: Fault is cleared
- T = 1.0920 s: Opened both breakers

Figure 91



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

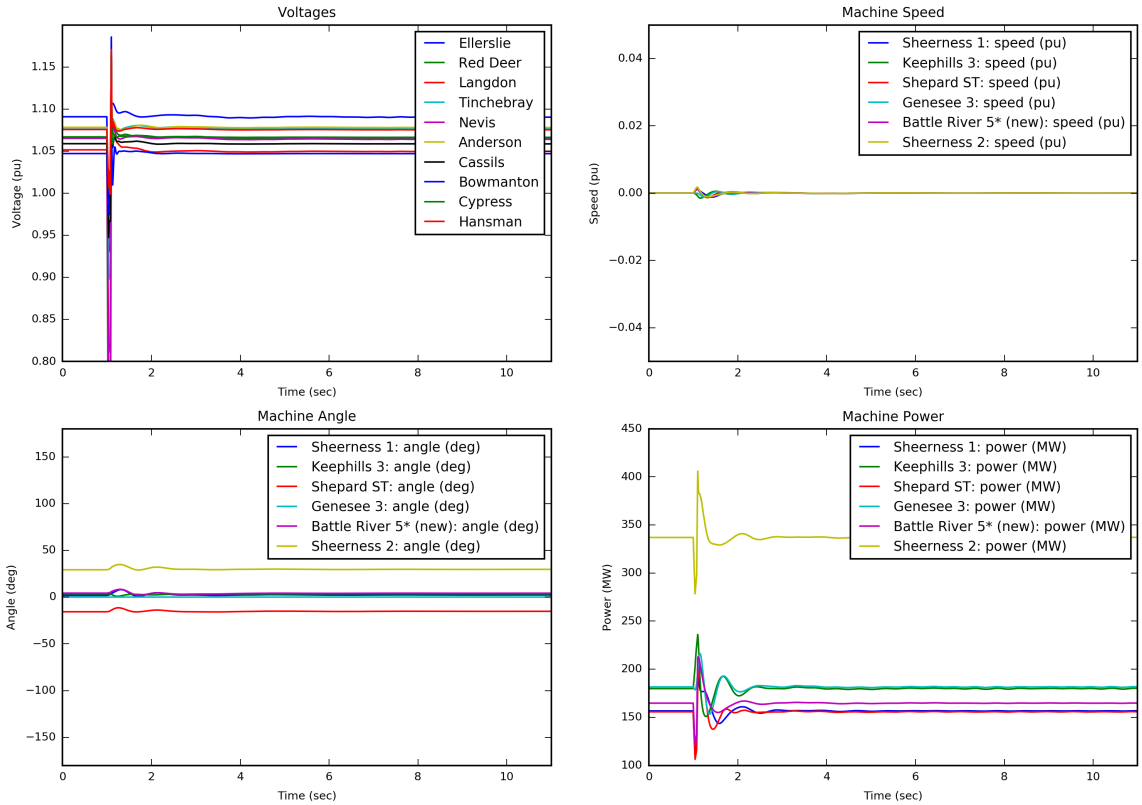
— T = 1.0020 s: Applied 3-ph fault on 929L (Hazelwood - Janet) near Hazelwood

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 929L (Hazelwood - Janet)

— T = 1.0920 s: Fault is cleared

Figure 92



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

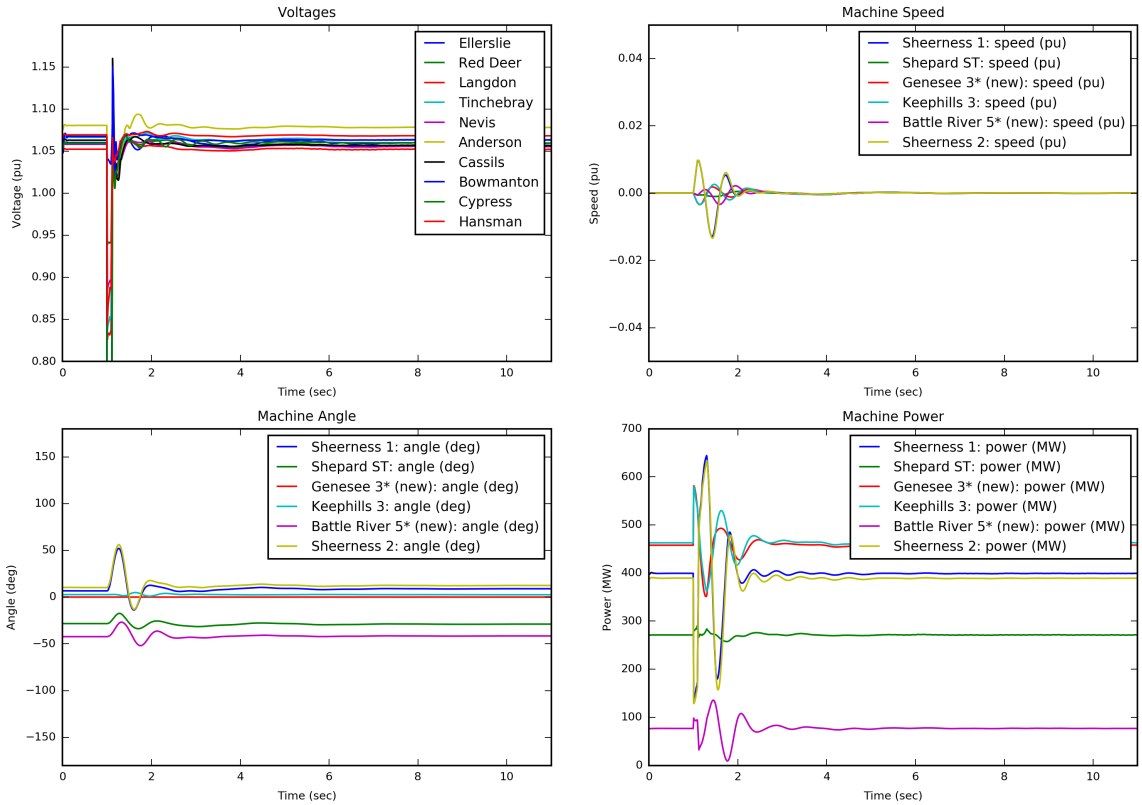
— T = 1.0020 s: Applied 3-ph fault on 929L (Hazelwood - Janet) near Hazelwood

— T = 1.0920 s: Opened both breakers

— T = 1.0920 s: Tripped 929L (Hazelwood - Janet)

— T = 1.0920 s: Fault is cleared

Figure 93



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

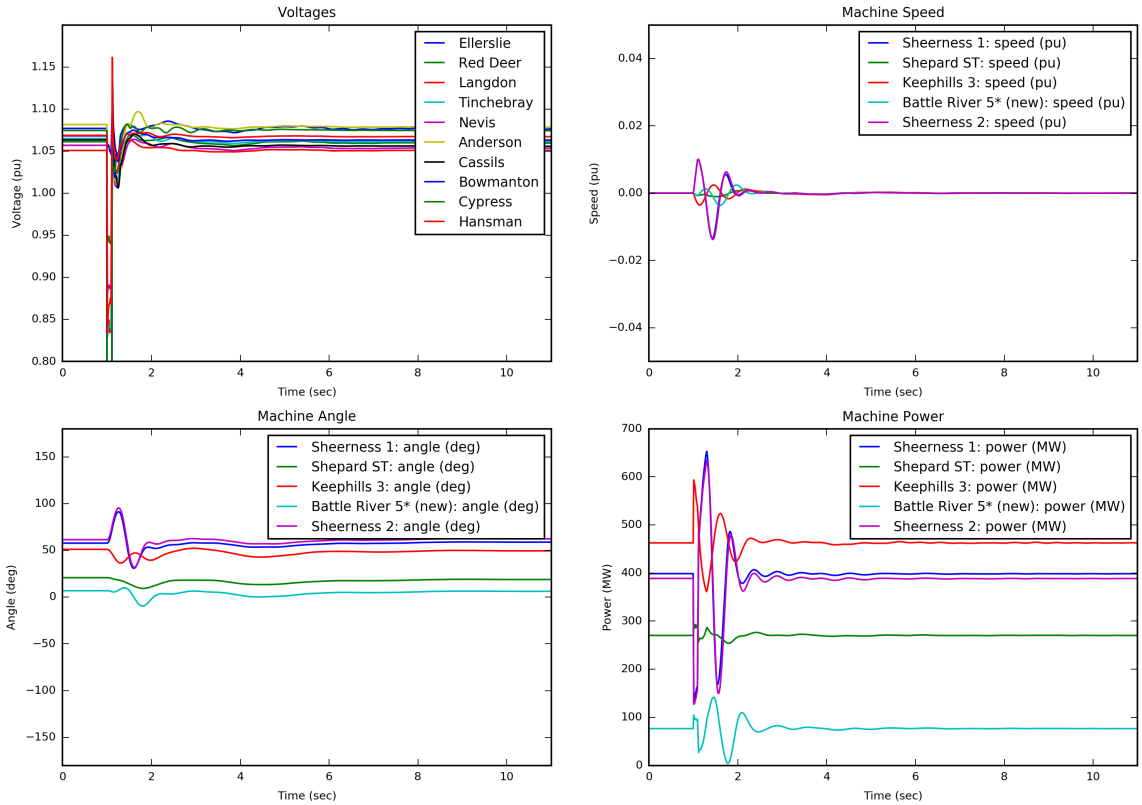
— T = 1.0020 s: Applied 3-ph fault at West Brooks

— T = 1.1010 s: Tripped 931L

— T = 1.1010 s: Tripped 1075L

— T = 1.1010 s: Fault is cleared

Figure 94



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

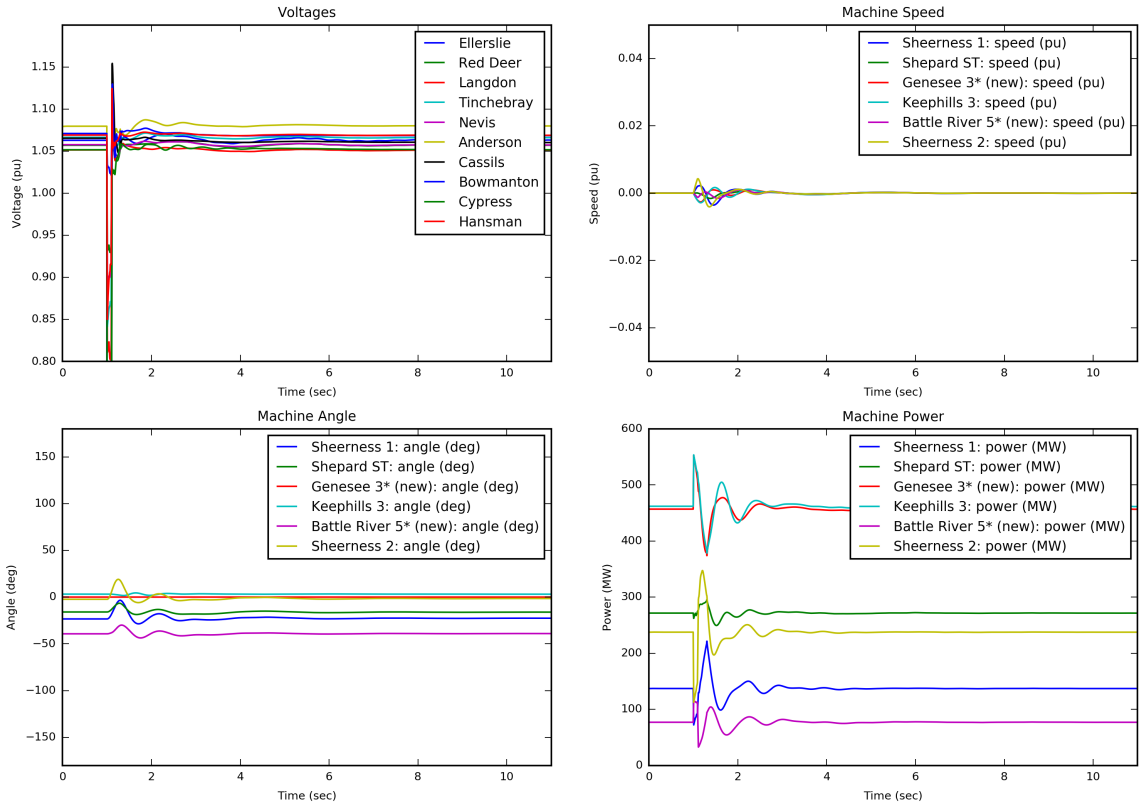
— T = 1.0020 s: Applied 3-ph fault at West Brooks

— T = 1.1010 s: Tripped 931L

— T = 1.1010 s: Tripped 1075L

— T = 1.1010 s: Fault is cleared

Figure 95



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

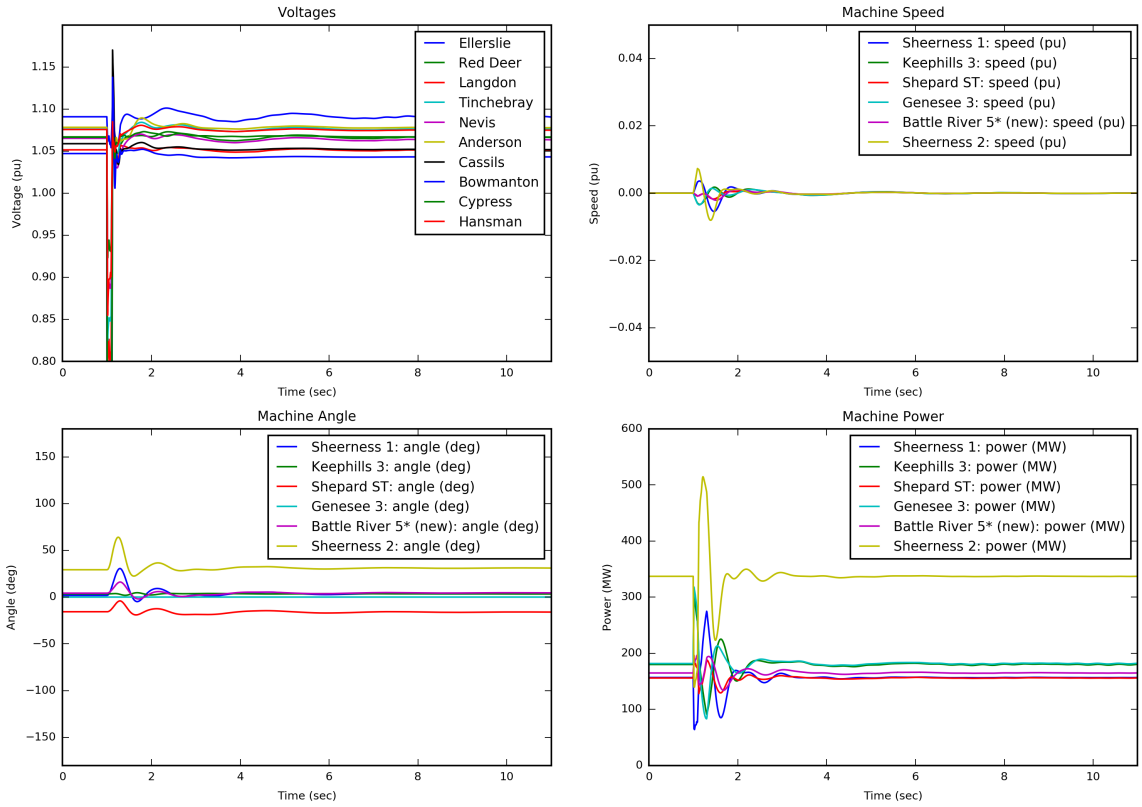
— T = 1.0020 s: Applied 3-ph fault at West Brooks

— T = 1.1010 s: Tripped 931L

— T = 1.1010 s: Tripped 1075L

— T = 1.1010 s: Fault is cleared

Figure 96



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

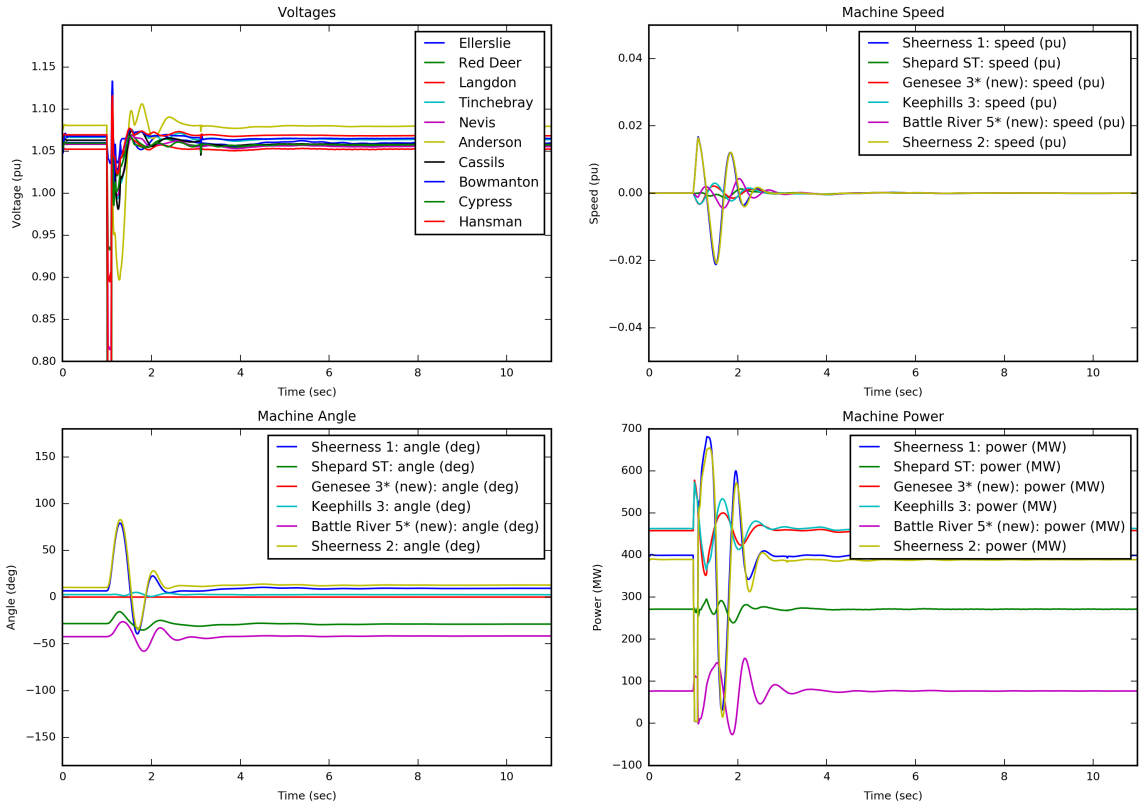
— T = 1.0020 s: Applied 3-ph fault at West Brooks

— T = 1.1010 s: Tripped 931L

— T = 1.1010 s: Tripped 1075L

— T = 1.1010 s: Fault is cleared

Figure 97



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

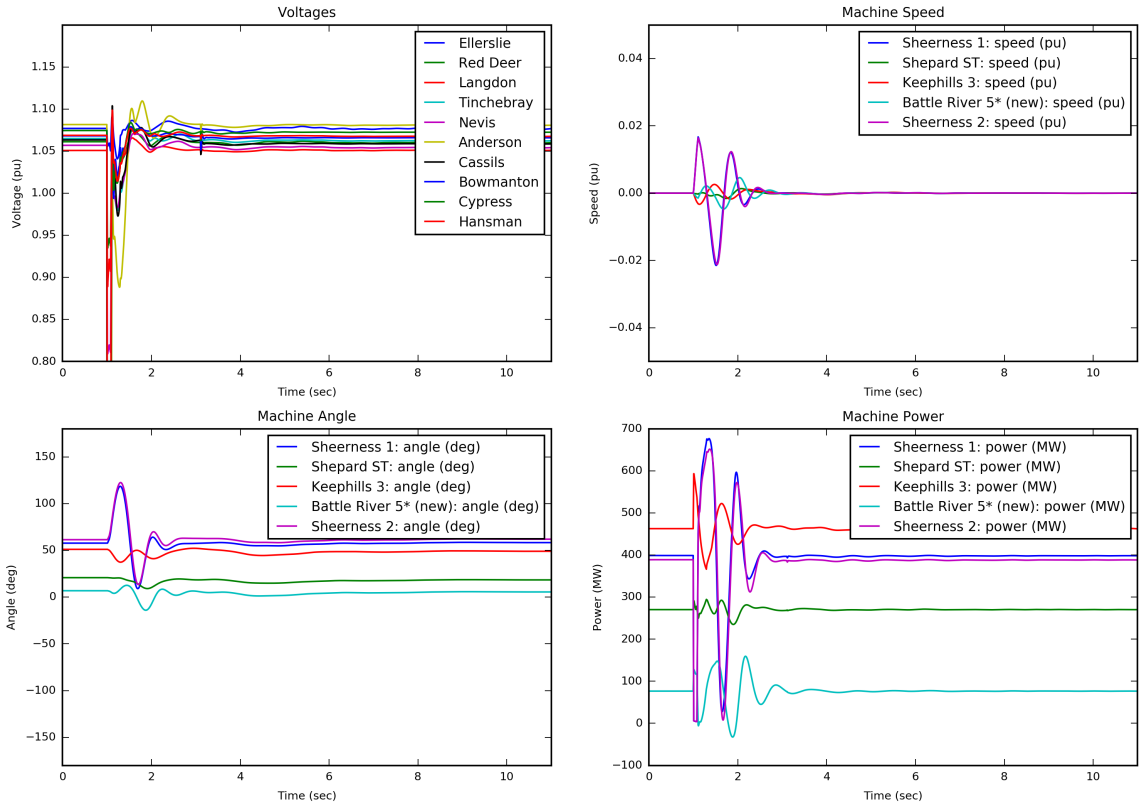
— T = 1.0020 s: Applied 3-ph fault at Anderson

— T = 1.1010 s: Tripped 933L

— T = 1.1010 s: Tripped 934L

— T = 1.1010 s: Fault is cleared

Figure 98



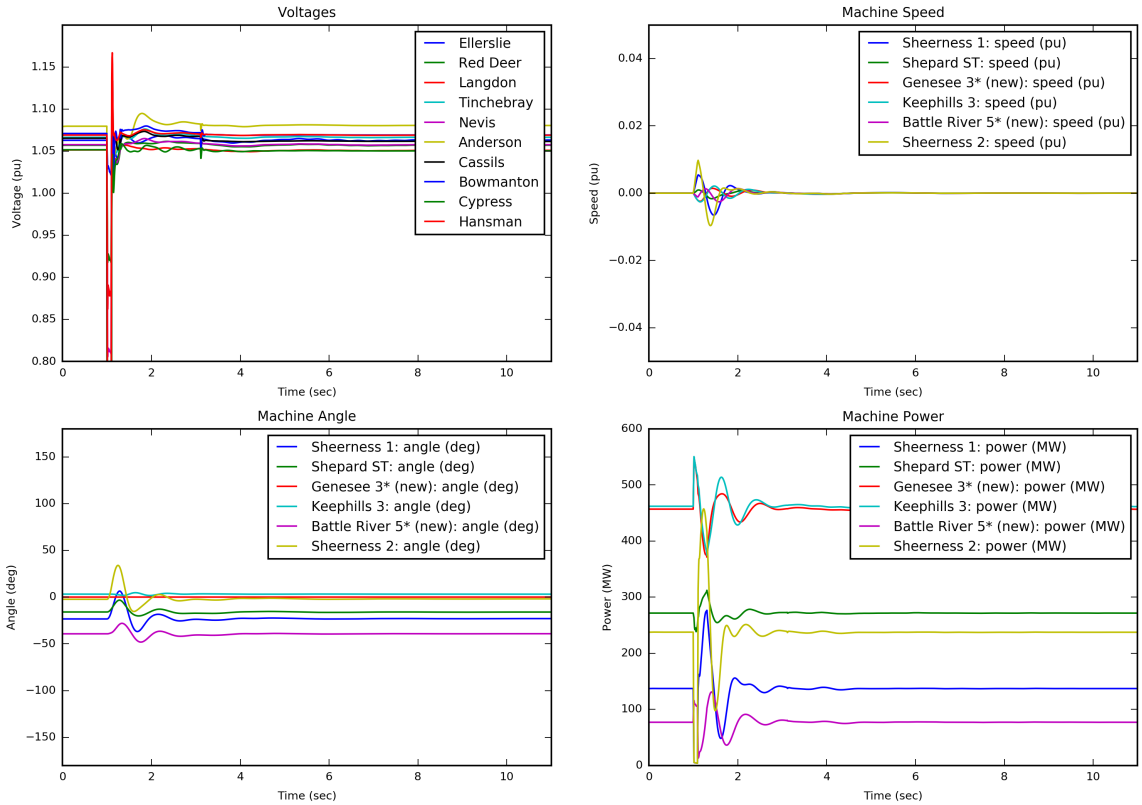
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault at Anderson
- T = 1.1010 s: Tripped 933L
- T = 1.1010 s: Tripped 934L
- T = 1.1010 s: Fault is cleared

Figure 99



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

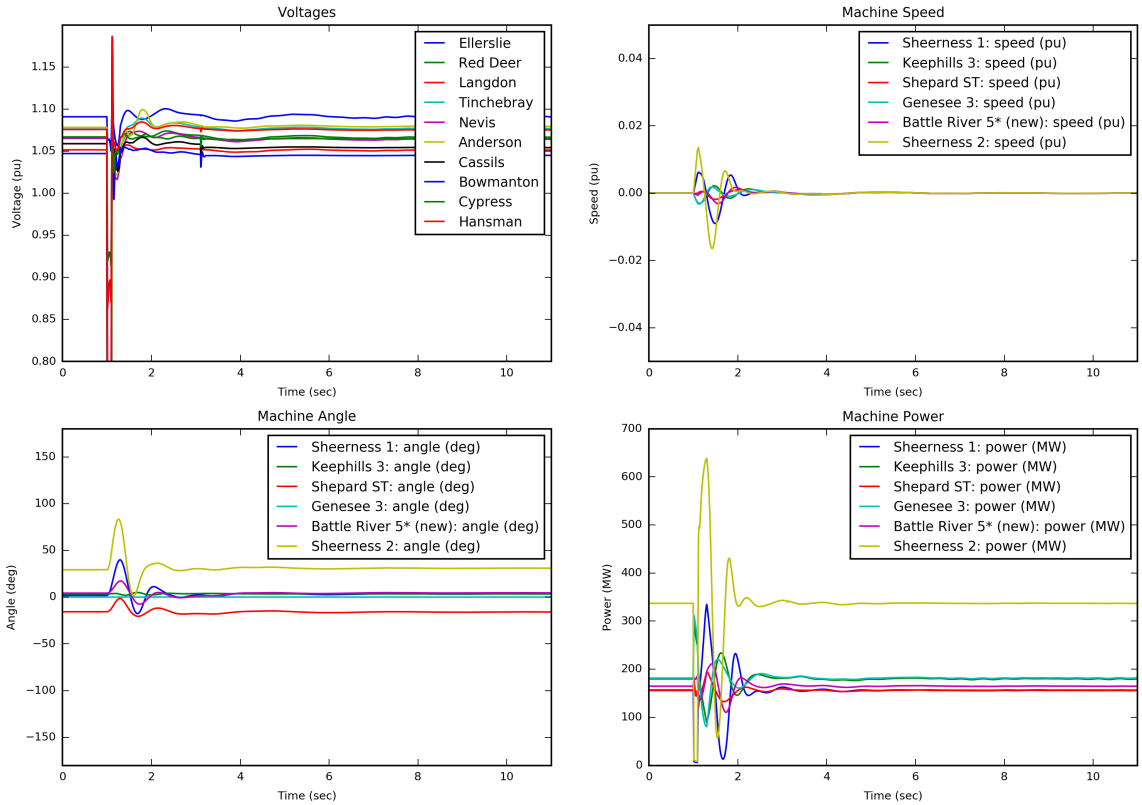
— T = 1.0020 s: Applied 3-ph fault at Anderson

— T = 1.1010 s: Tripped 933L

— T = 1.1010 s: Tripped 934L

— T = 1.1010 s: Fault is cleared

Figure 100



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

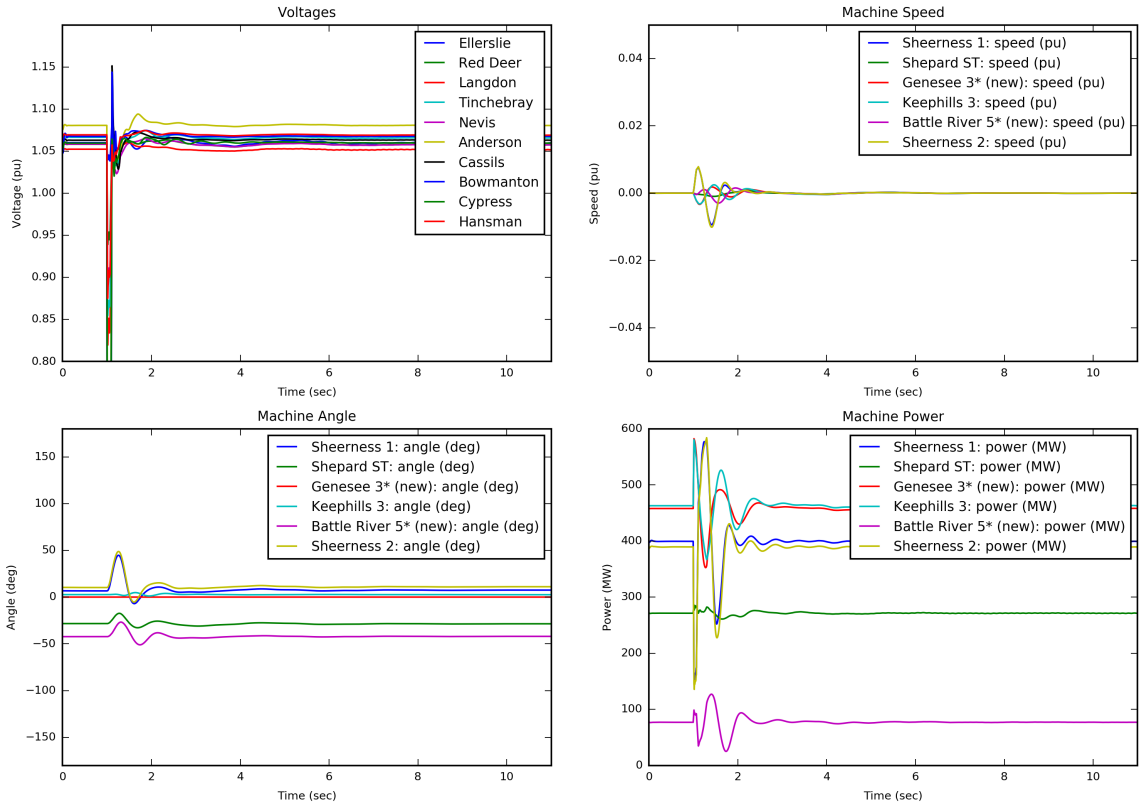
— T = 1.0020 s: Applied 3-ph fault at Anderson

— T = 1.1010 s: Tripped 933L

— T = 1.1010 s: Tripped 934L

— T = 1.1010 s: Fault is cleared

Figure 101



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

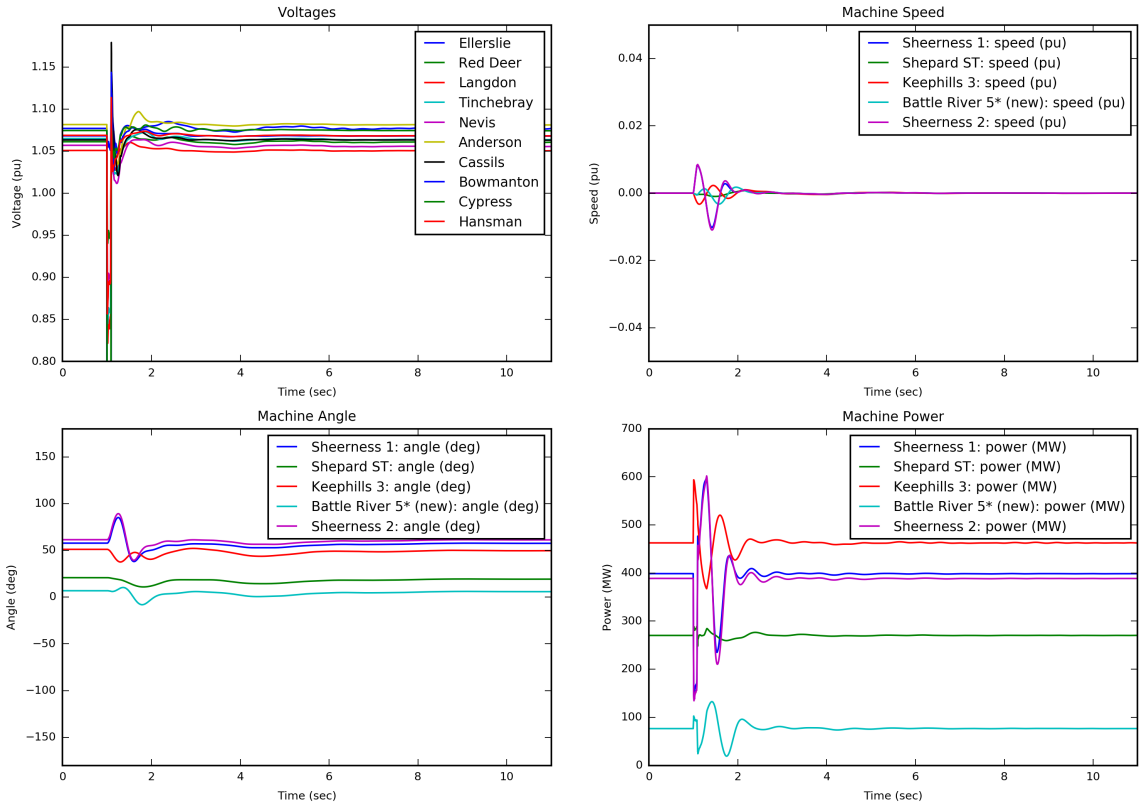
— T = 1.0020 s: Applied 3-ph fault on 935L (Cassils - Milo) near Cassils

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 935L (Cassils - Milo)

— T = 1.1010 s: Fault is cleared

Figure 102



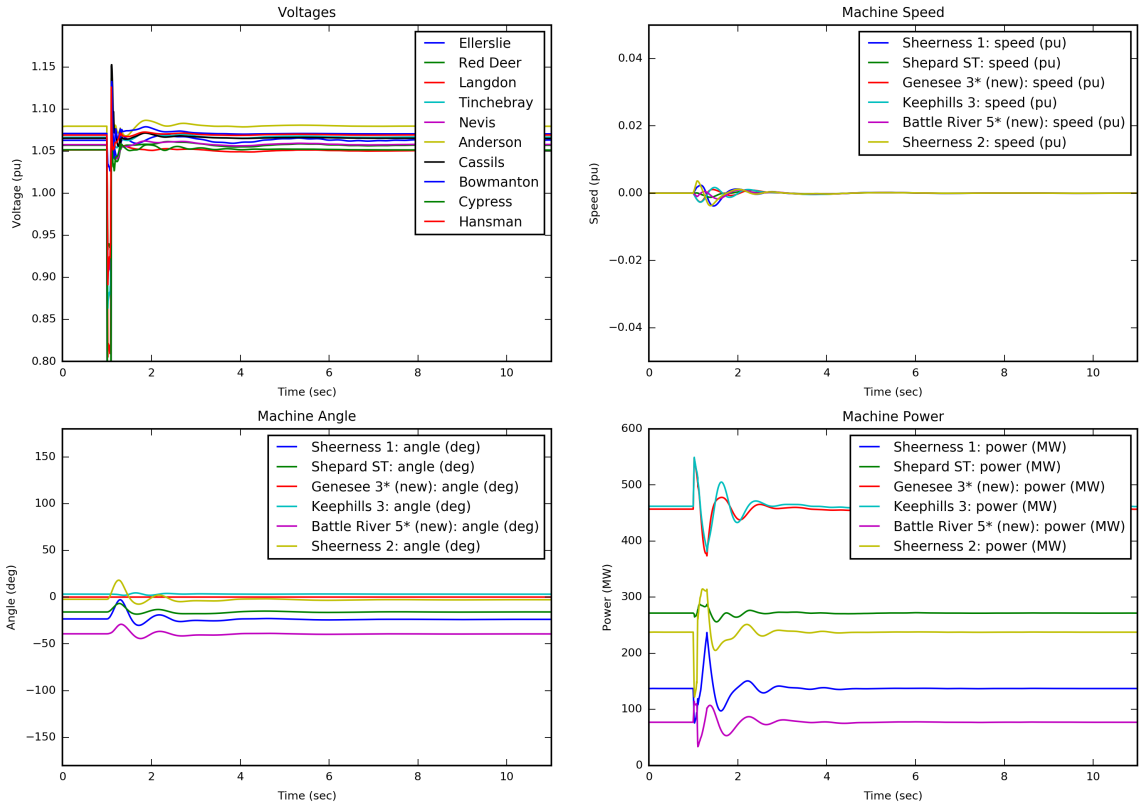
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 935L (Cassils - Milo) near Cassils
- T = 1.0860 s: Opened near end breaker
- T = 1.1010 s: Tripped 935L (Cassils - Milo)
- T = 1.1010 s: Fault is cleared

Figure 103



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

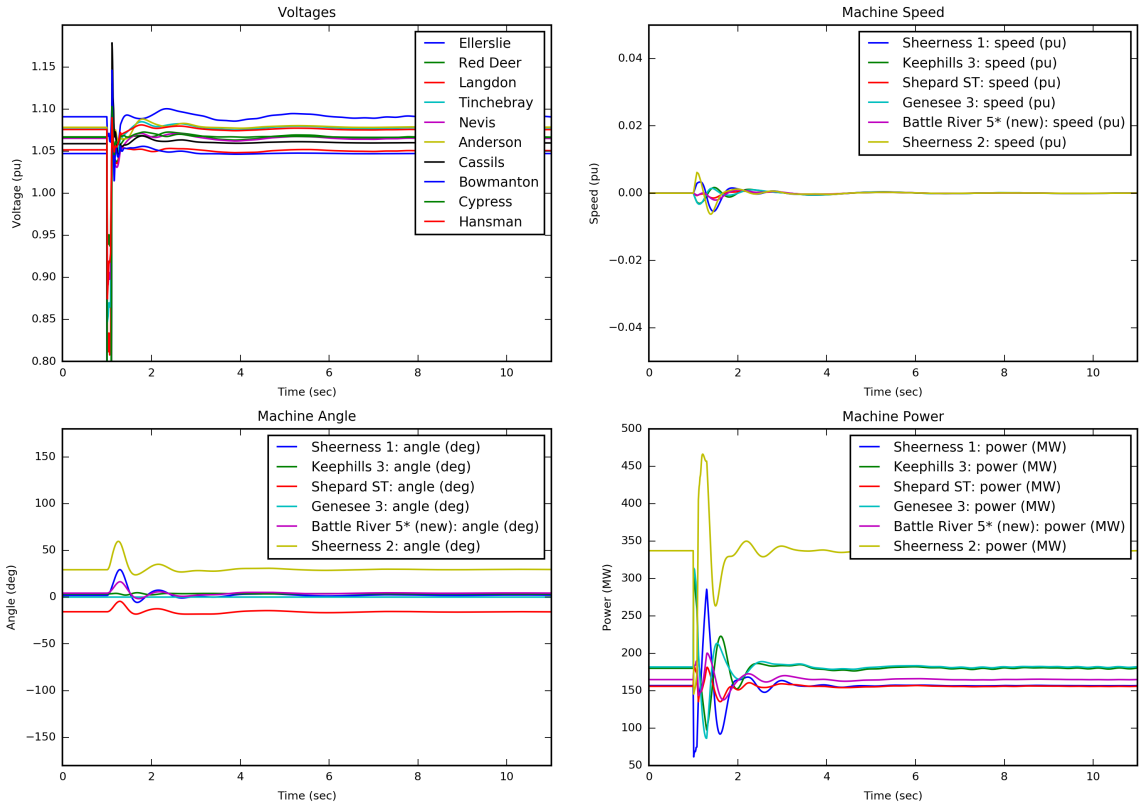
— T = 1.0020 s: Applied 3-ph fault on 935L (Cassils - Milo) near Cassils

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 935L (Cassils - Milo)

— T = 1.1010 s: Fault is cleared

Figure 104



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

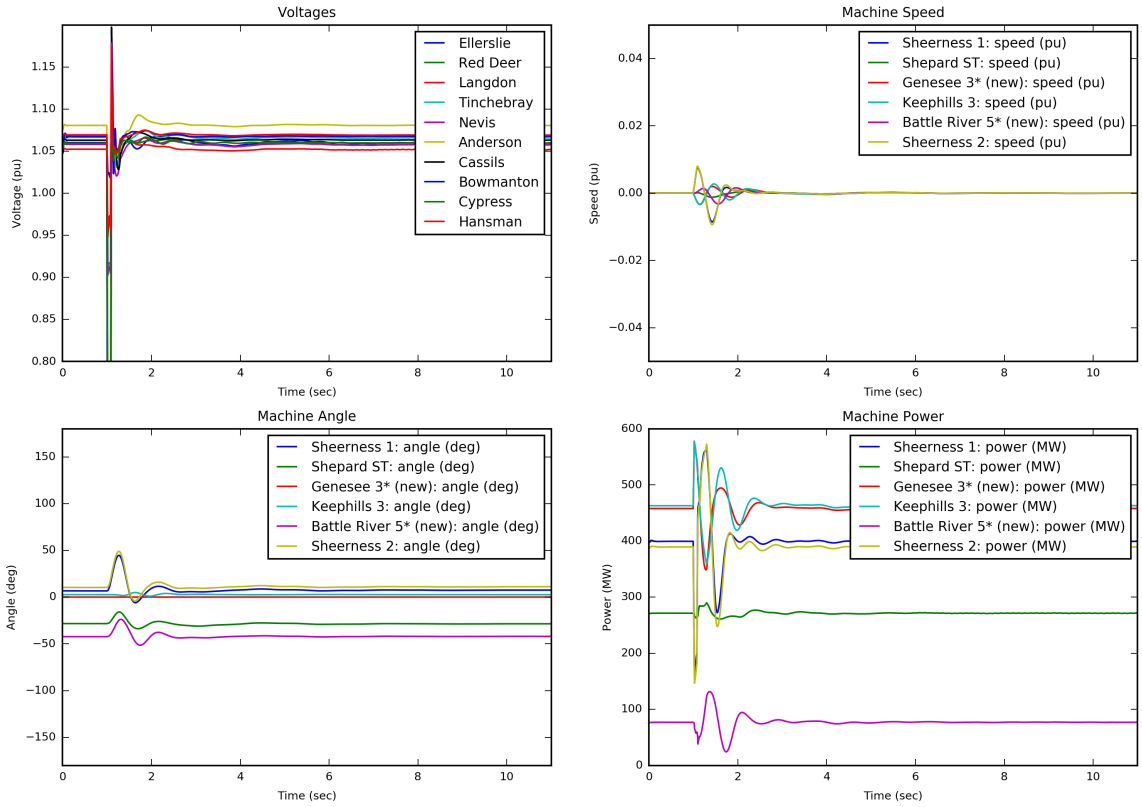
— T = 1.0020 s: Applied 3-ph fault on 935L (Cassils - Milo) near Cassils

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 935L (Cassils - Milo)

— T = 1.1010 s: Fault is cleared

Figure 105



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

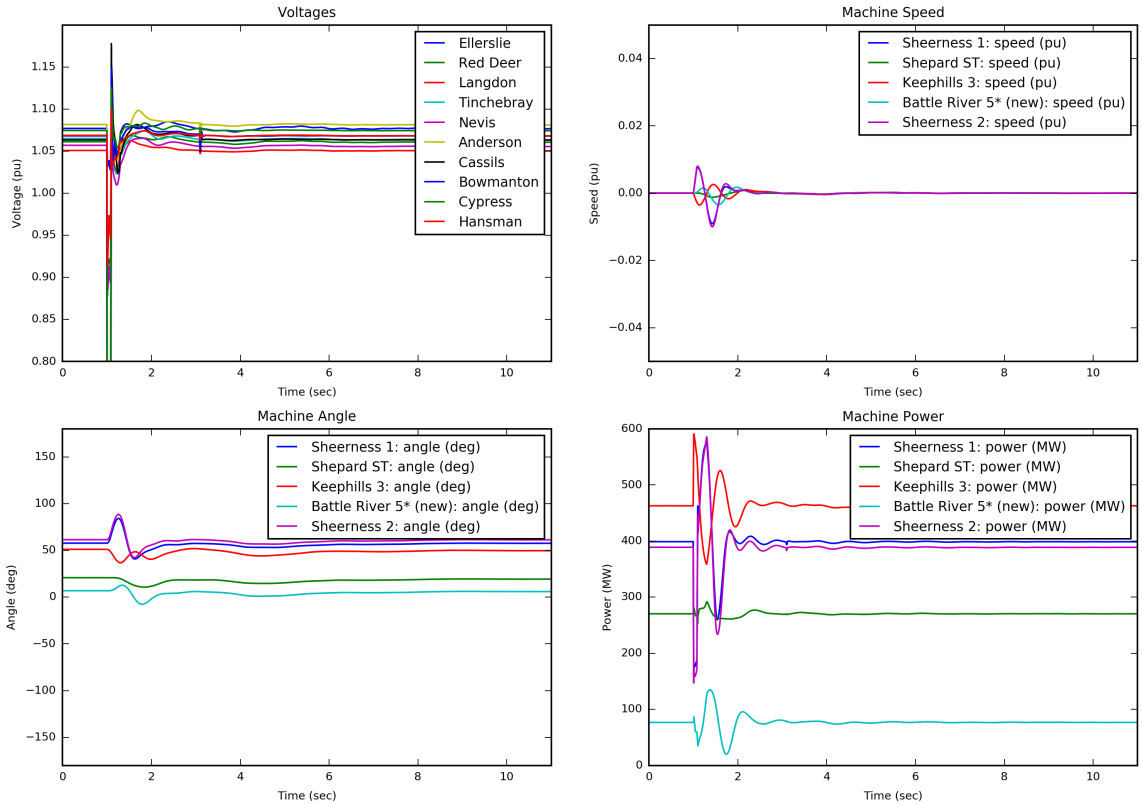
— T = 1.0020 s: Applied 3-ph fault on 935L (Milo - Cassils) near Milo

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 935L (Milo - Cassils)

— T = 1.1010 s: Fault is cleared

Figure 106



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

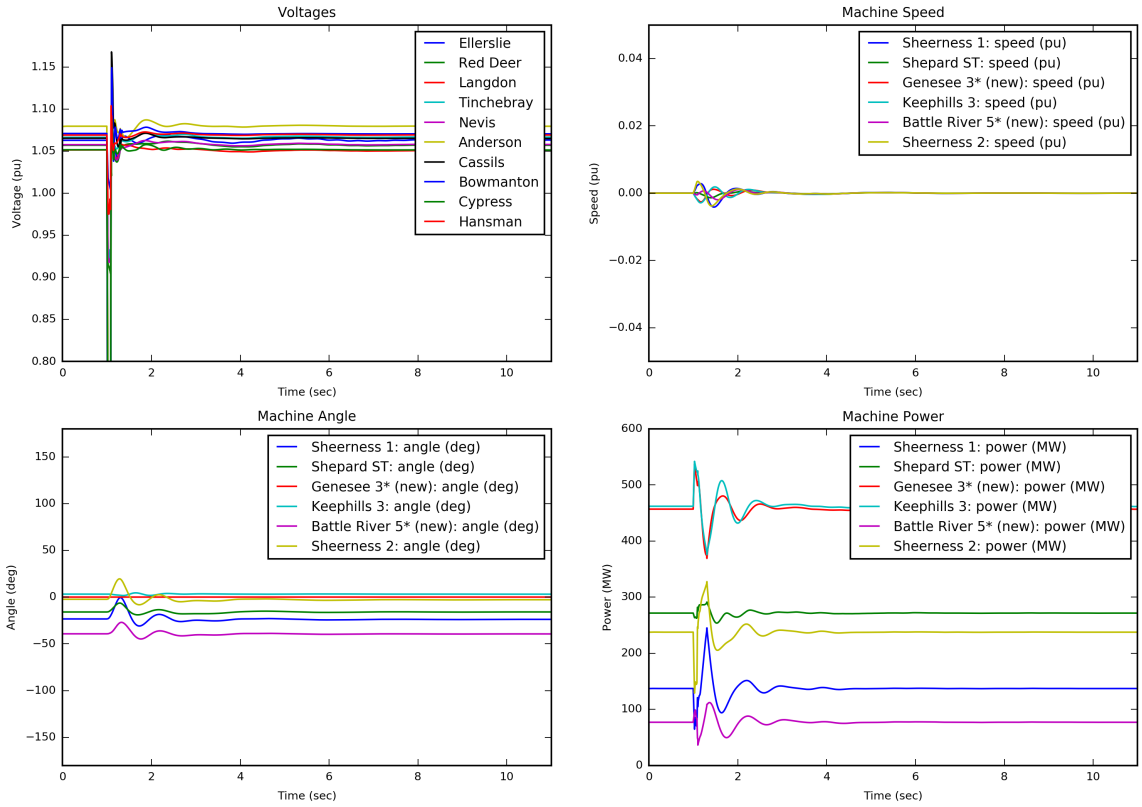
— T = 1.0020 s: Applied 3-ph fault on 935L (Milo - Cassils) near Milo

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 935L (Milo - Cassils)

— T = 1.1010 s: Fault is cleared

Figure 107



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

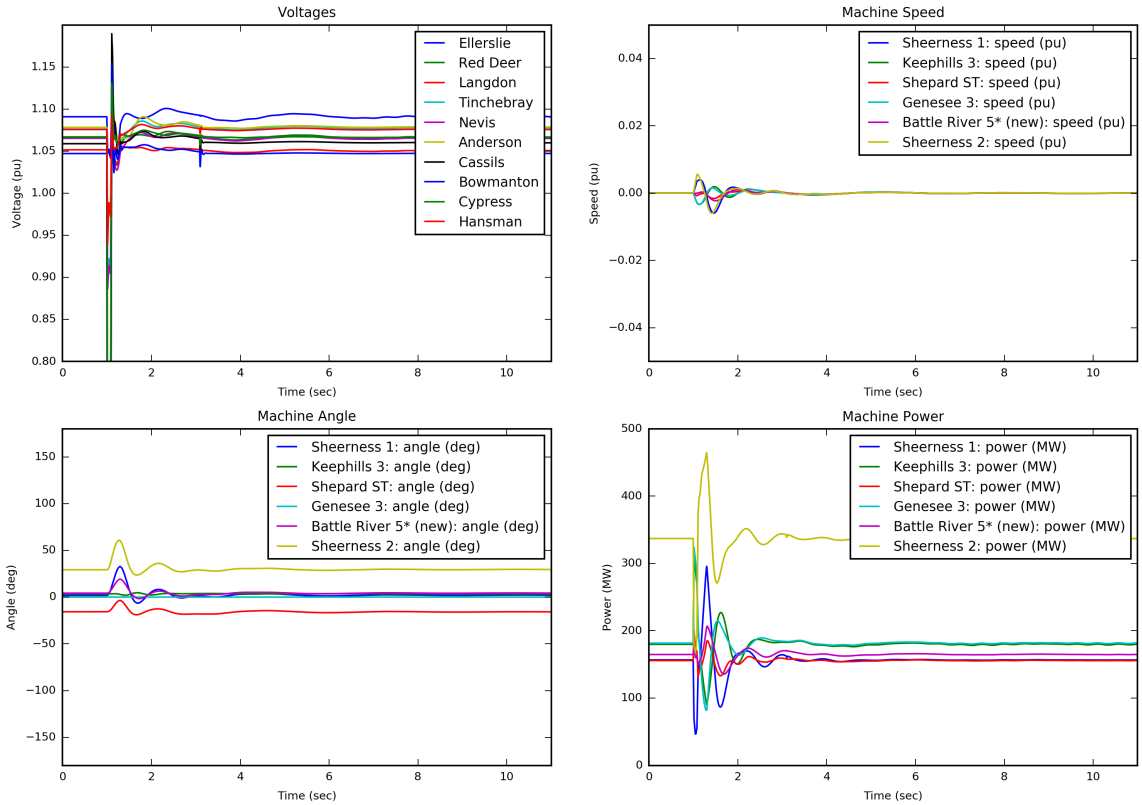
— T = 1.0020 s: Applied 3-ph fault on 935L (Milo - Cassils) near Milo

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 935L (Milo - Cassils)

— T = 1.1010 s: Fault is cleared

Figure 108



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

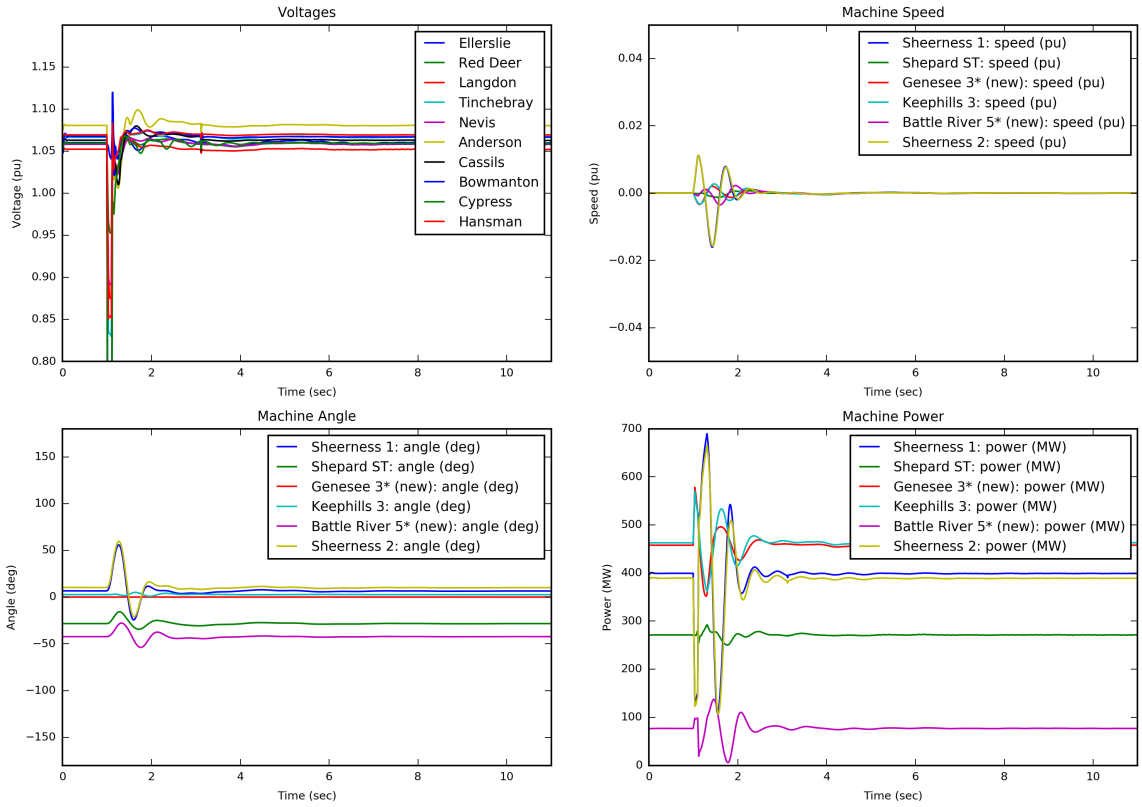
— T = 1.0020 s: Applied 3-ph fault on 935L (Milo - Cassils) near Milo

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 935L (Milo - Cassils)

— T = 1.1010 s: Fault is cleared

Figure 109



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

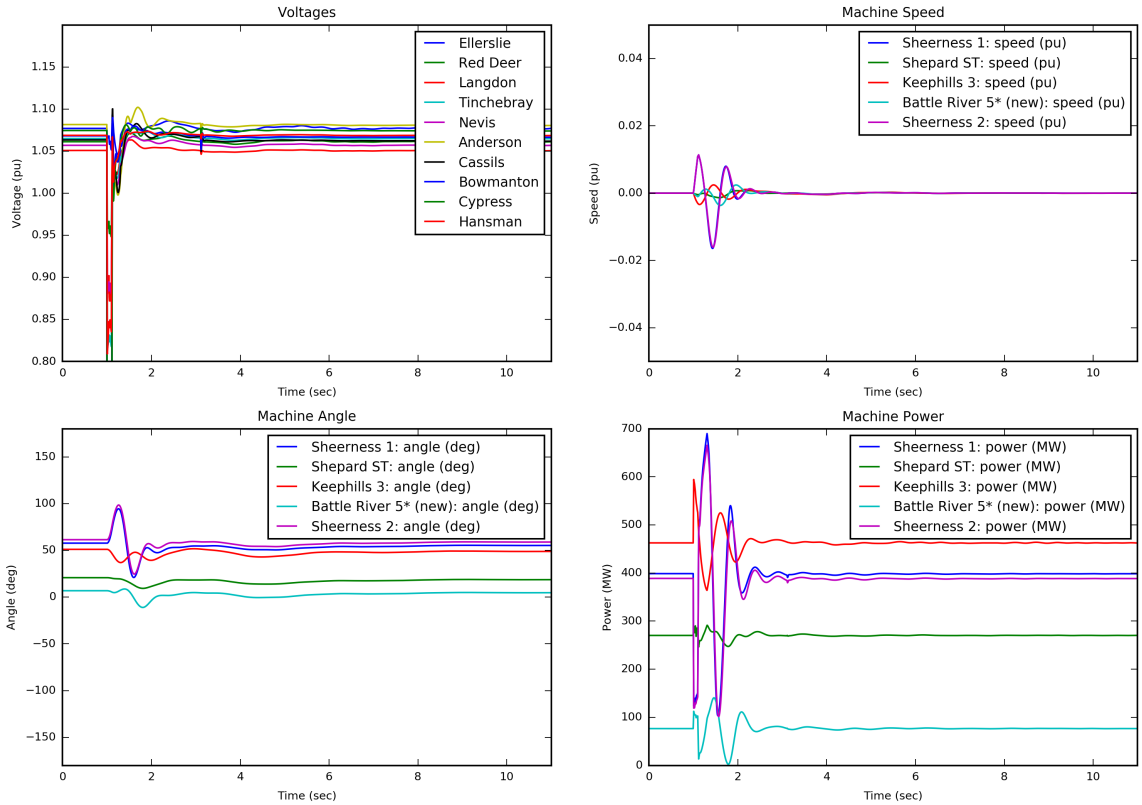
— T = 1.0020 s: Applied 3-ph fault on 944L (Ware Jct. - Jenner) near Ware Jct.

— T = 1.1070 s: Opened near end breaker

— T = 1.1220 s: Tripped 944L (Ware Jct. - Jenner)

— T = 1.1220 s: Fault is cleared

Figure 110



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

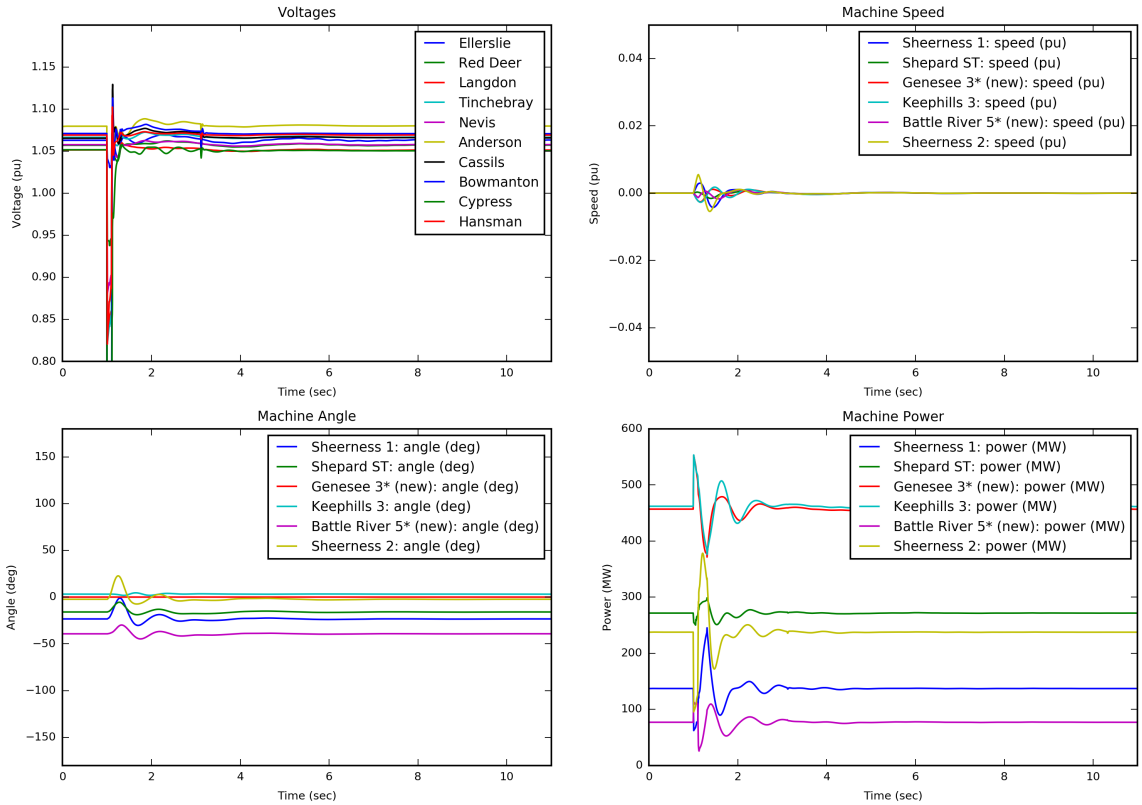
— T = 1.0020 s: Applied 3-ph fault on 944L (Ware Jct. - Jenner) near Ware Jct.

— T = 1.1070 s: Opened near end breaker

— T = 1.1220 s: Tripped 944L (Ware Jct. - Jenner)

— T = 1.1220 s: Fault is cleared

Figure 111



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

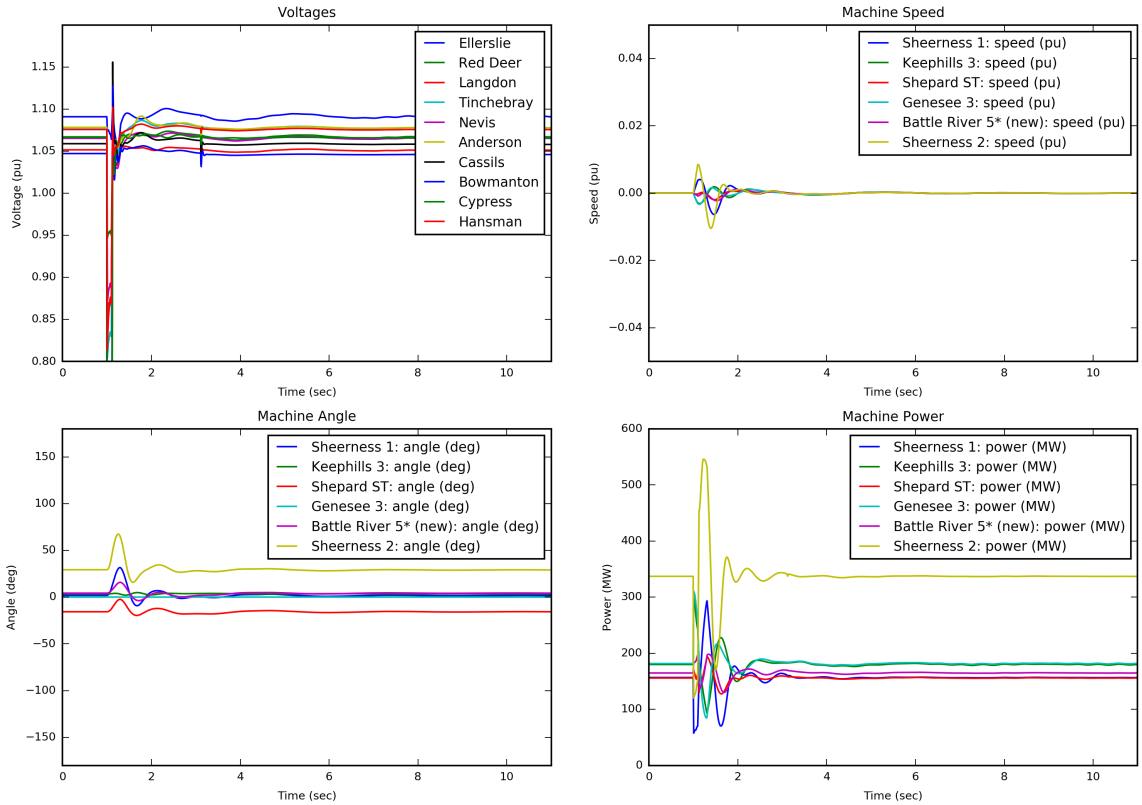
— T = 1.0020 s: Applied 3-ph fault on 944L (Ware Jct. - Jenner) near Ware Jct.

— T = 1.1070 s: Opened near end breaker

— T = 1.1220 s: Tripped 944L (Ware Jct. - Jenner)

— T = 1.1220 s: Fault is cleared

Figure 112



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

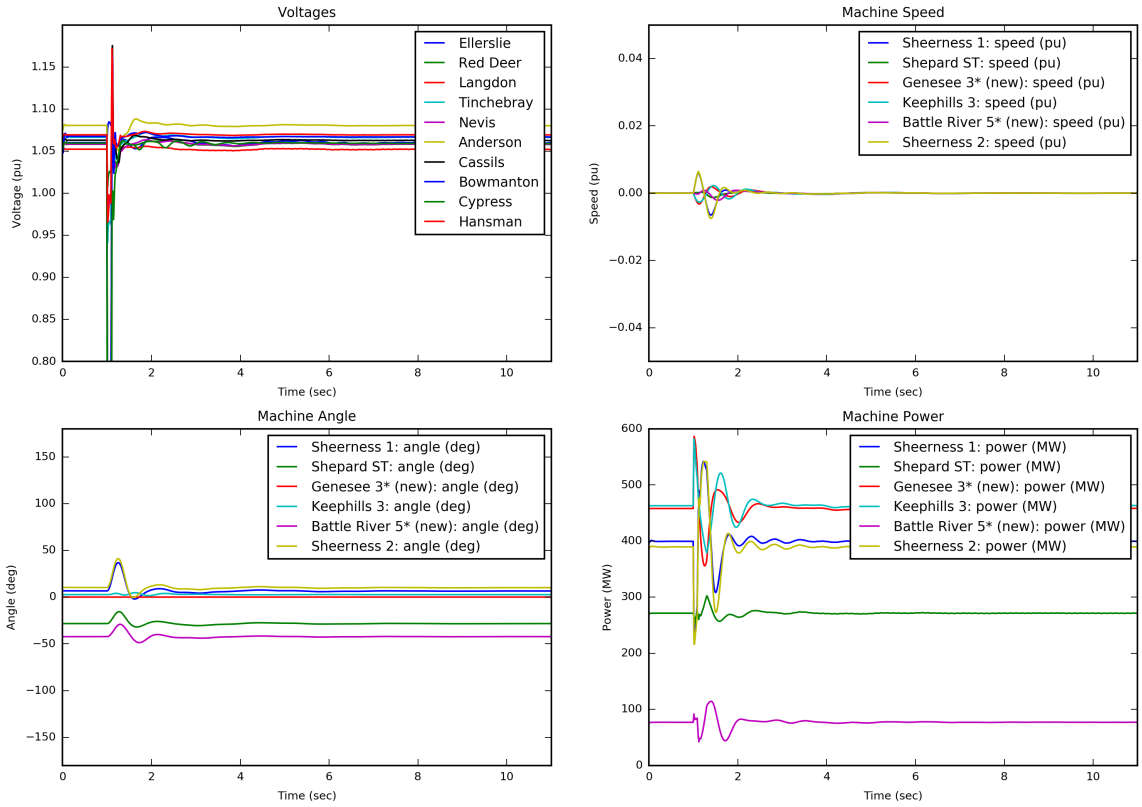
— T = 1.0020 s: Applied 3-ph fault on 944L (Ware Jct. - Jenner) near Ware Jct.

— T = 1.1070 s: Opened near end breaker

— T = 1.1220 s: Tripped 944L (Ware Jct. - Jenner)

— T = 1.1220 s: Fault is cleared

Figure 113



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

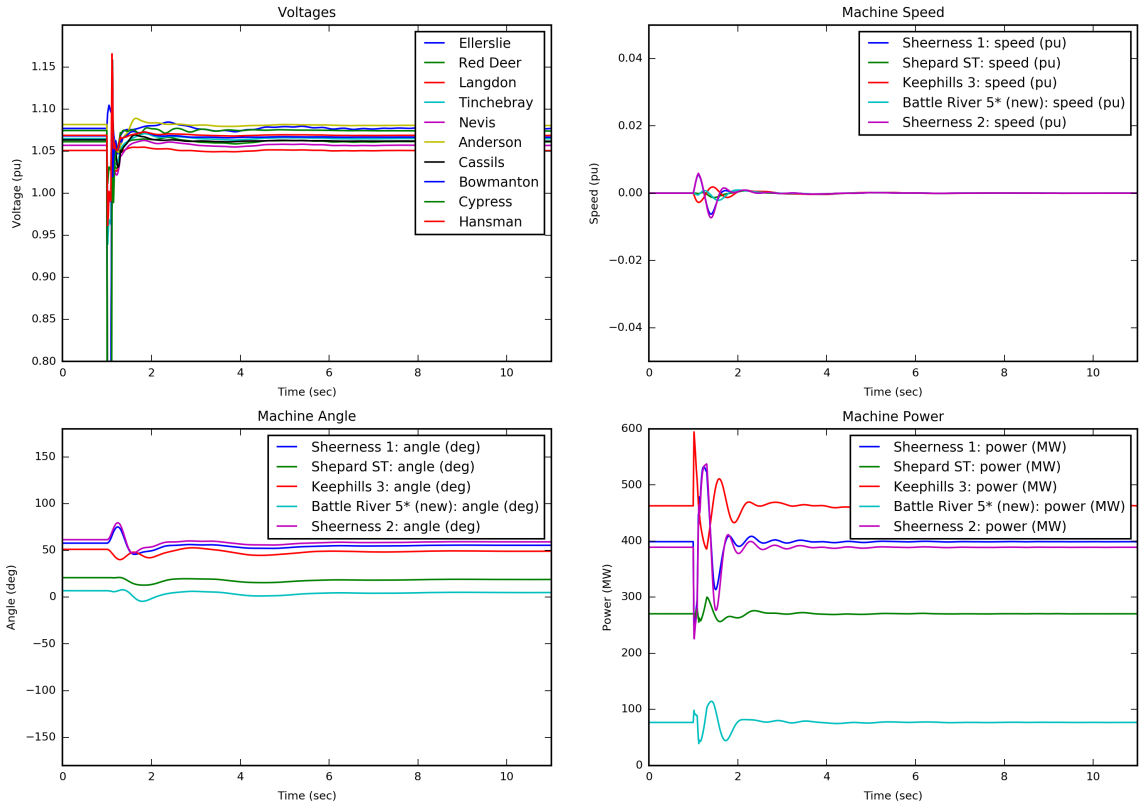
— T = 1.0020 s: Applied 3-ph fault on 944L (Jenner - Ware Jct.) near Jenner

— T = 1.1070 s: Opened near end breaker

— T = 1.1220 s: Tripped 944L (Jenner - Ware Jct.)

— T = 1.1220 s: Fault is cleared

Figure 114



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

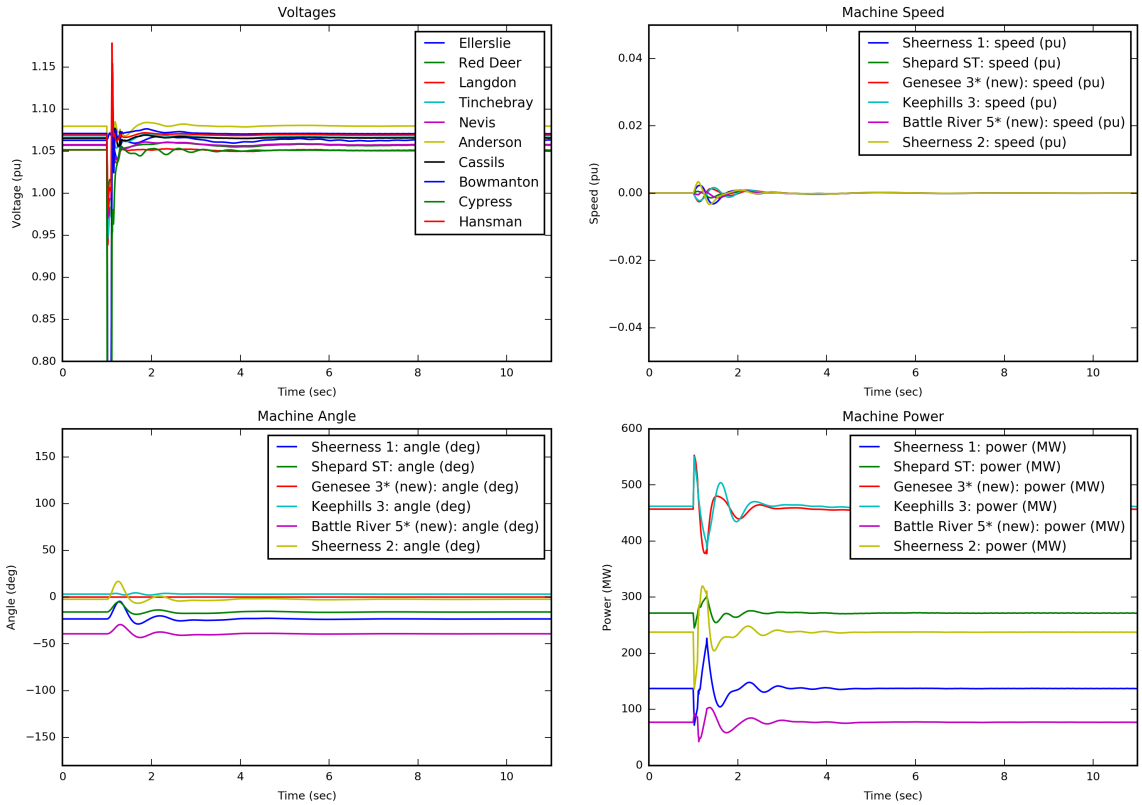
— T = 1.0020 s: Applied 3-ph fault on 944L (Jenner - Ware Jct.) near Jenner

— T = 1.1070 s: Opened near end breaker

— T = 1.1220 s: Tripped 944L (Jenner - Ware Jct.)

— T = 1.1220 s: Fault is cleared

Figure 115



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

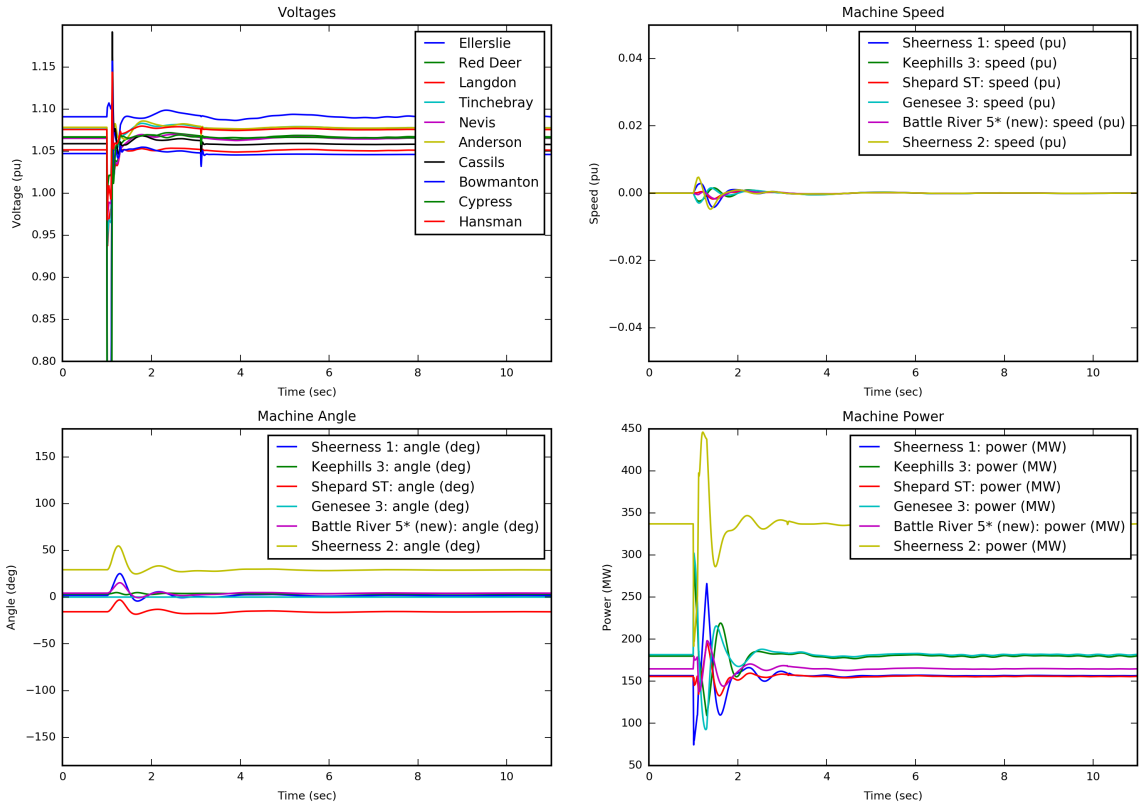
— T = 1.0020 s: Applied 3-ph fault on 944L (Jenner - Ware Jct.) near Jenner

— T = 1.1070 s: Opened near end breaker

— T = 1.1220 s: Tripped 944L (Jenner - Ware Jct.)

— T = 1.1220 s: Fault is cleared

Figure 116



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

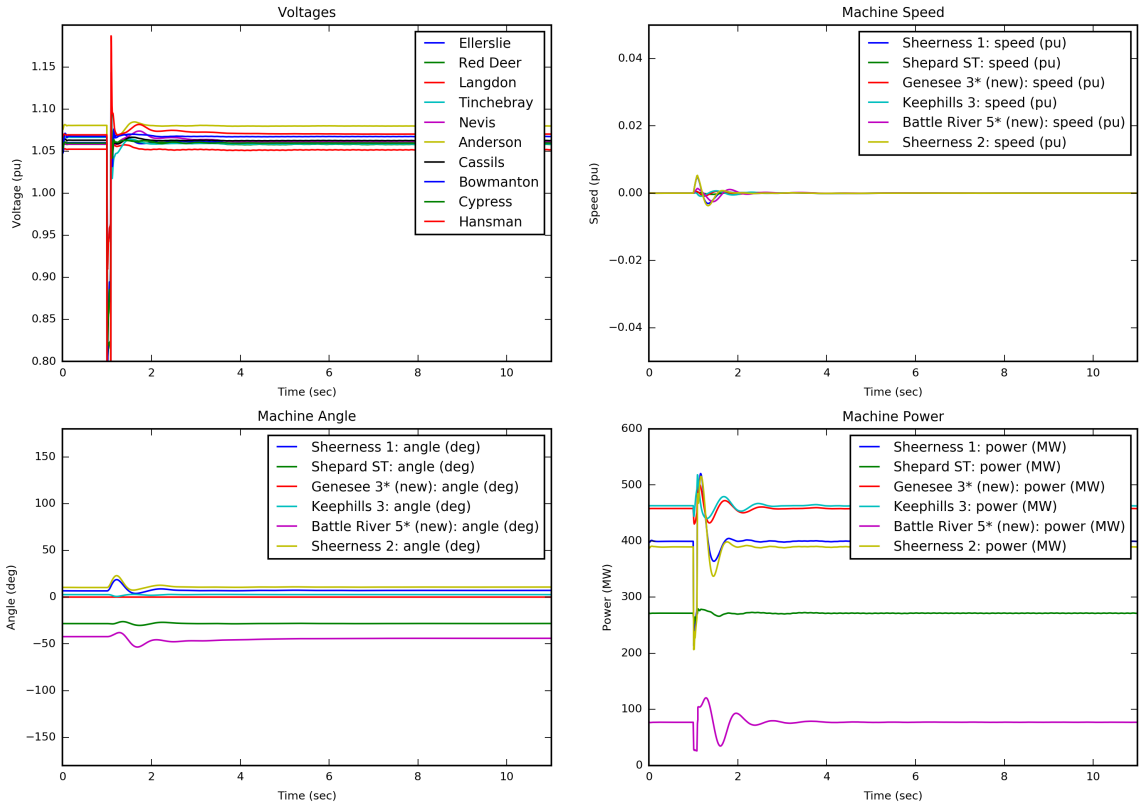
— T = 1.0020 s: Applied 3-ph fault on 944L (Jenner - Ware Jct.) near Jenner

— T = 1.1070 s: Opened near end breaker

— T = 1.1220 s: Tripped 944L (Jenner - Ware Jct.)

— T = 1.1220 s: Fault is cleared

Figure 117



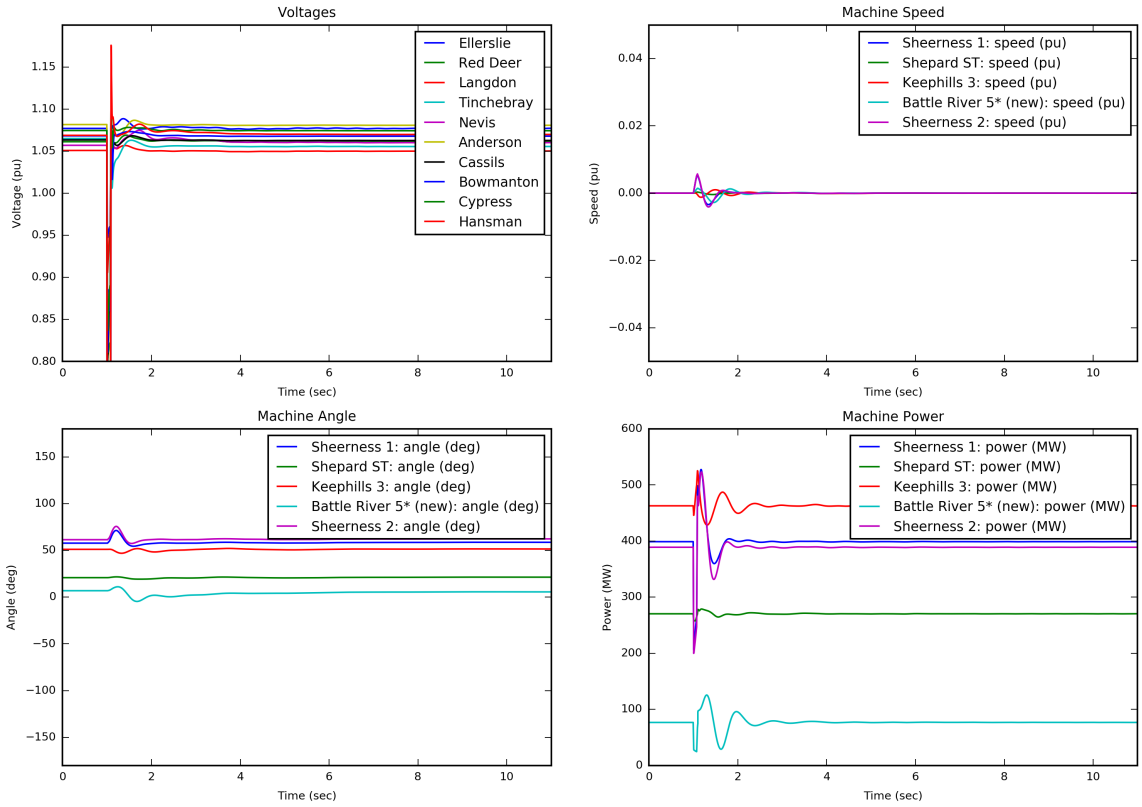
Case Description

- Study case: 2023 H4; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 9L16 (Tinchebray - Cordel) near Tinchebray
- T = 1.0860 s: Opened near end breaker
- T = 1.1010 s: Tripped 9L16 (Tinchebray - Cordel)
- T = 1.1010 s: Fault is cleared

Figure 118



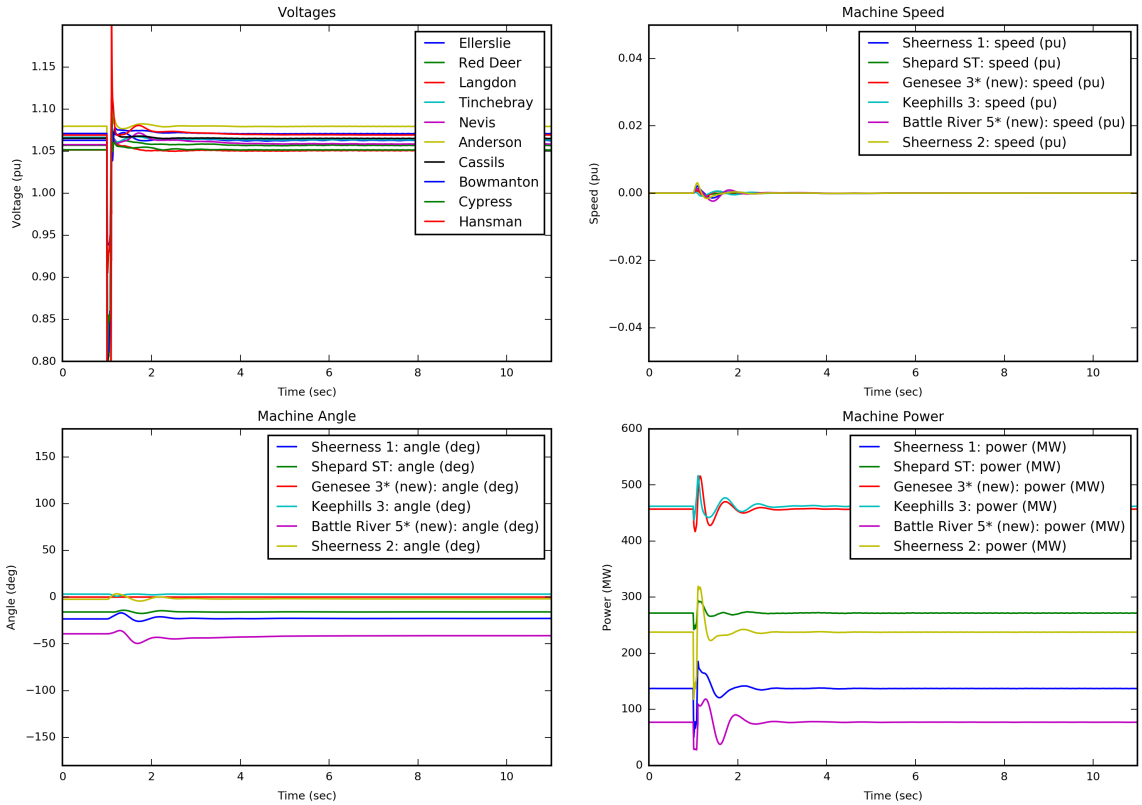
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 9L16 (Tinchebray - Cordel) near Tinchebray
- T = 1.0860 s: Opened near end breaker
- T = 1.1010 s: Tripped 9L16 (Tinchebray - Cordel)
- T = 1.1010 s: Fault is cleared

Figure 119



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

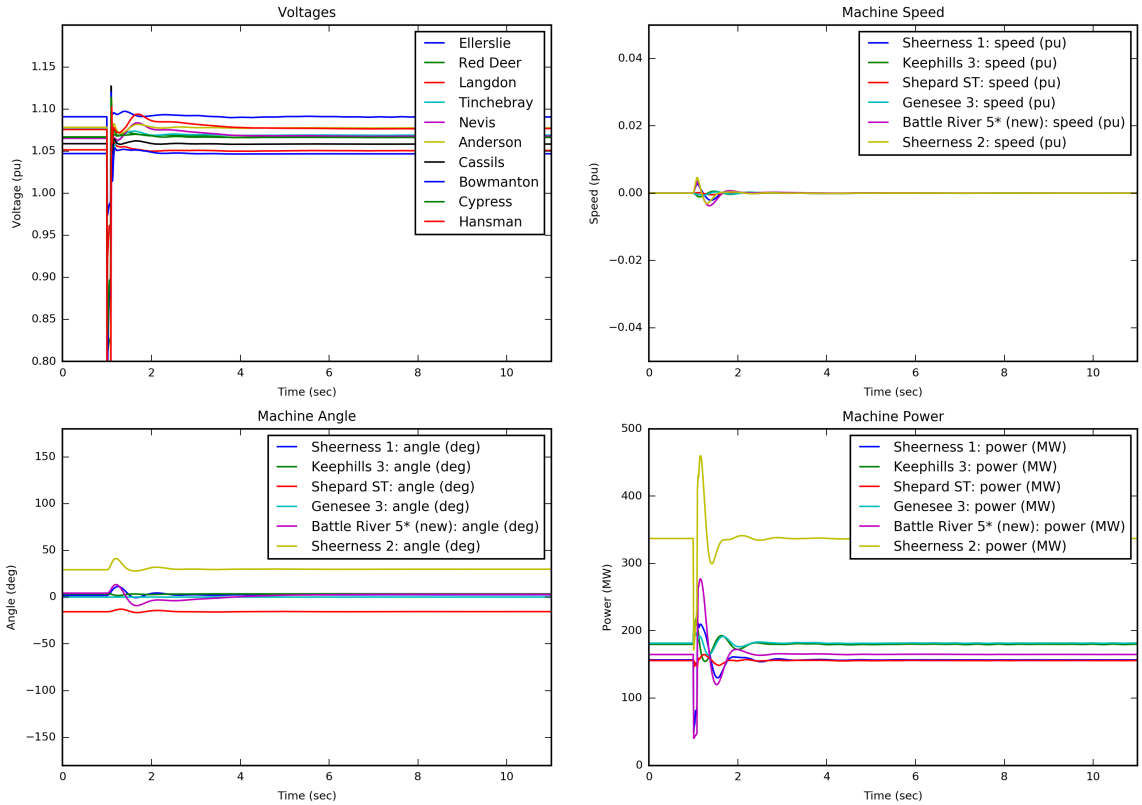
— T = 1.0020 s: Applied 3-ph fault on 9L16 (Tinchebray - Cordel) near Tinchebray

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L16 (Tinchebray - Cordel)

— T = 1.1010 s: Fault is cleared

Figure 120



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

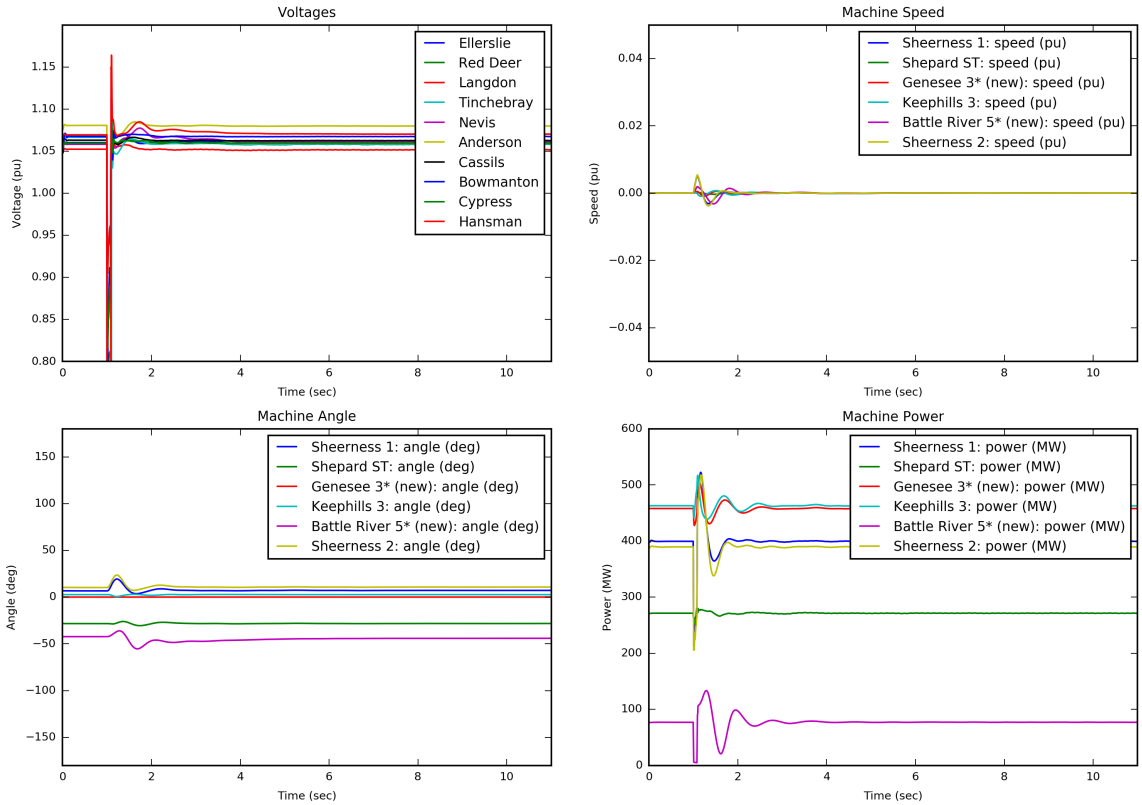
— T = 1.0020 s: Applied 3-ph fault on 9L16 (Tinchebray - Cordel) near Tinchebray

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L16 (Tinchebray - Cordel)

— T = 1.1010 s: Fault is cleared

Figure 121



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

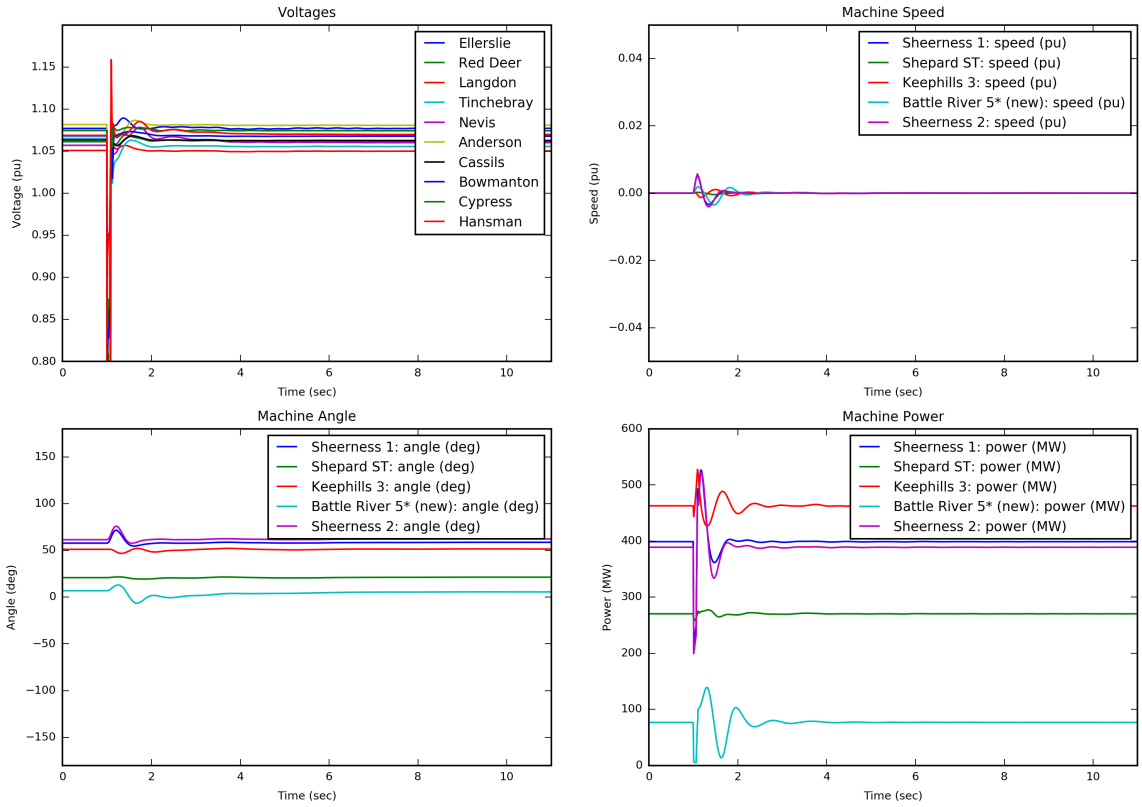
— T = 1.0020 s: Applied 3-ph fault on 9L16 (Cordel - Tinchebray) near Cordel

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L16 (Cordel - Tinchebray)

— T = 1.1010 s: Fault is cleared

Figure 122



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

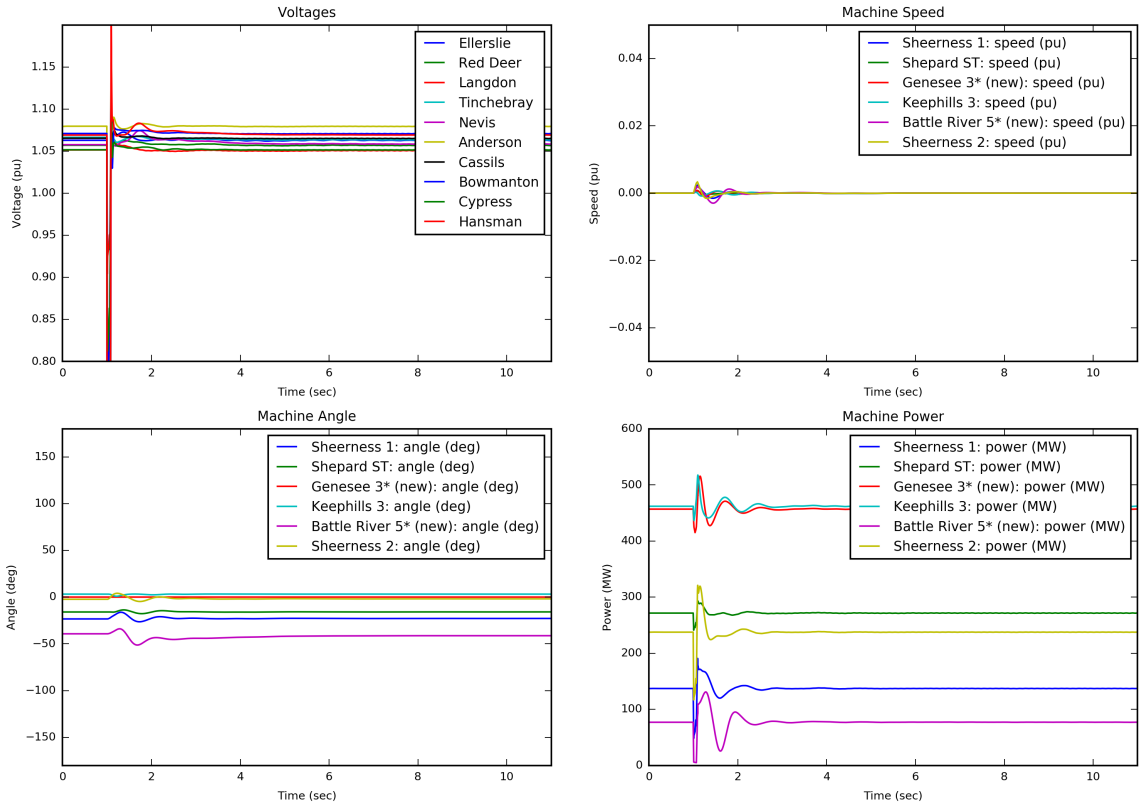
— T = 1.0020 s: Applied 3-ph fault on 9L16 (Cordel - Tinchebray) near Cordel

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L16 (Cordel - Tinchebray)

— T = 1.1010 s: Fault is cleared

Figure 123



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

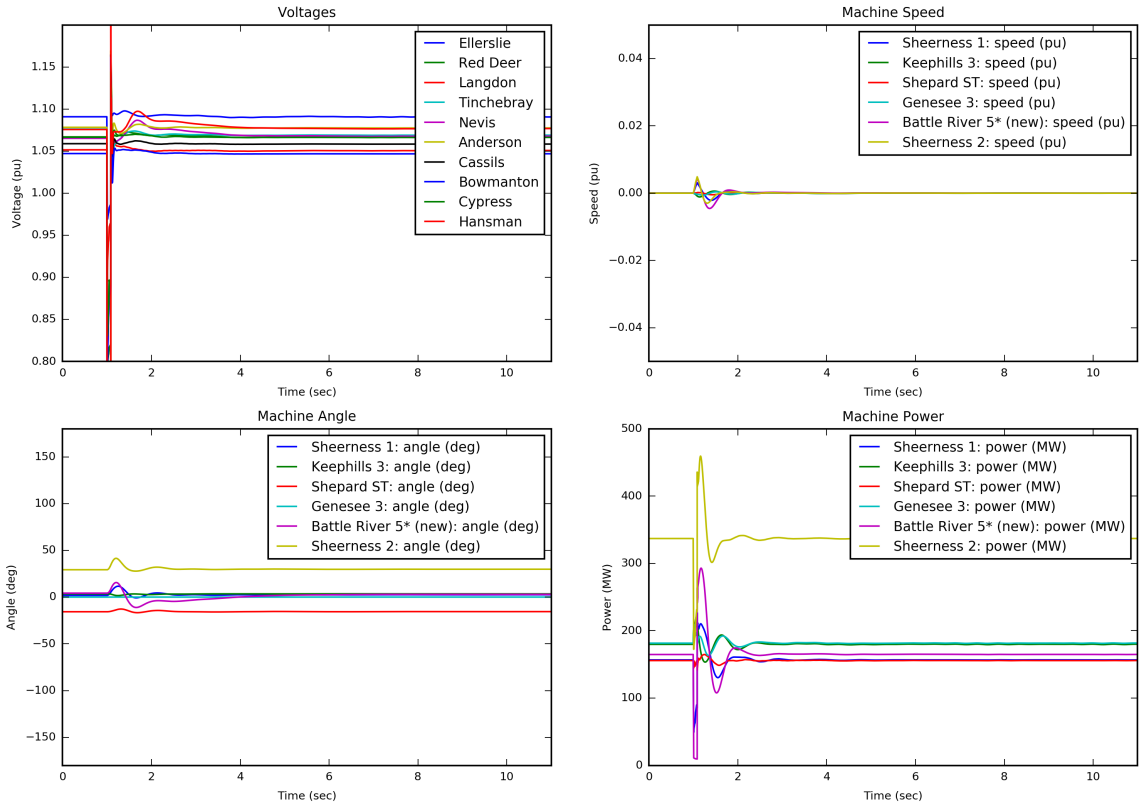
— T = 1.0020 s: Applied 3-ph fault on 9L16 (Cordel - Tinchebray) near Cordel

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L16 (Cordel - Tinchebray)

— T = 1.1010 s: Fault is cleared

Figure 124



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

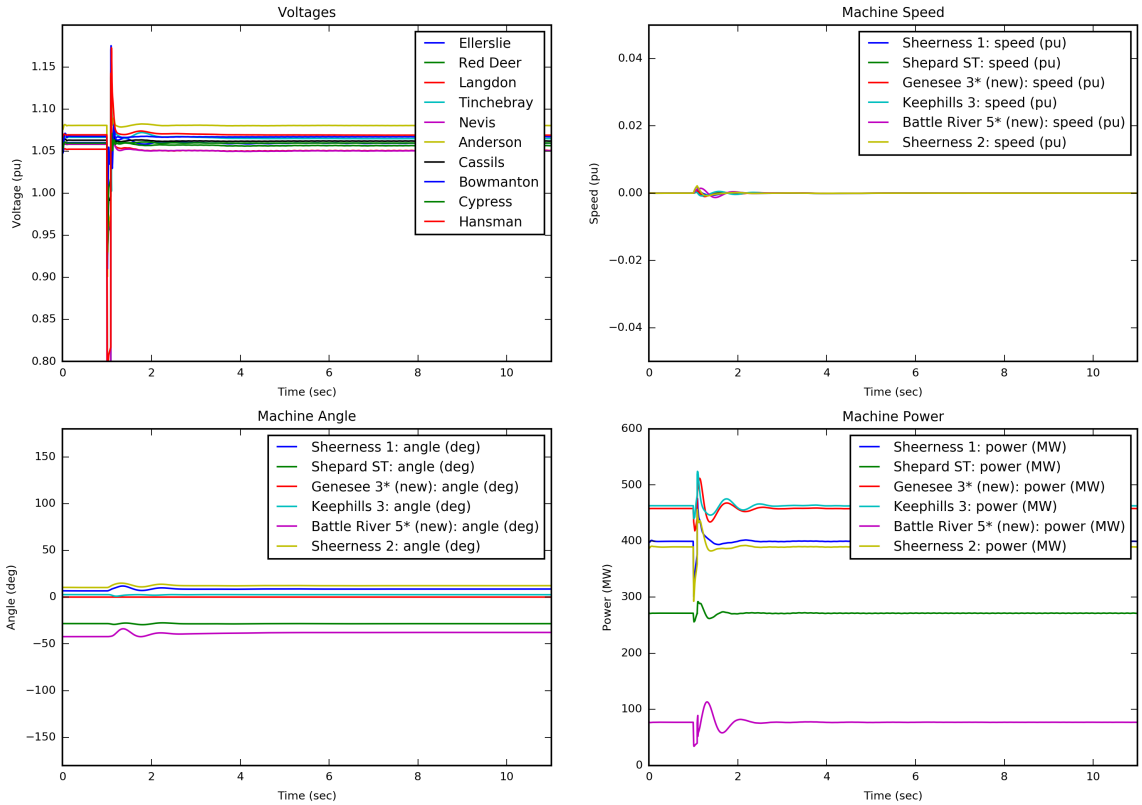
— T = 1.0020 s: Applied 3-ph fault on 9L16 (Cordel - Tinchebray) near Cordel

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L16 (Cordel - Tinchebray)

— T = 1.1010 s: Fault is cleared

Figure 125



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

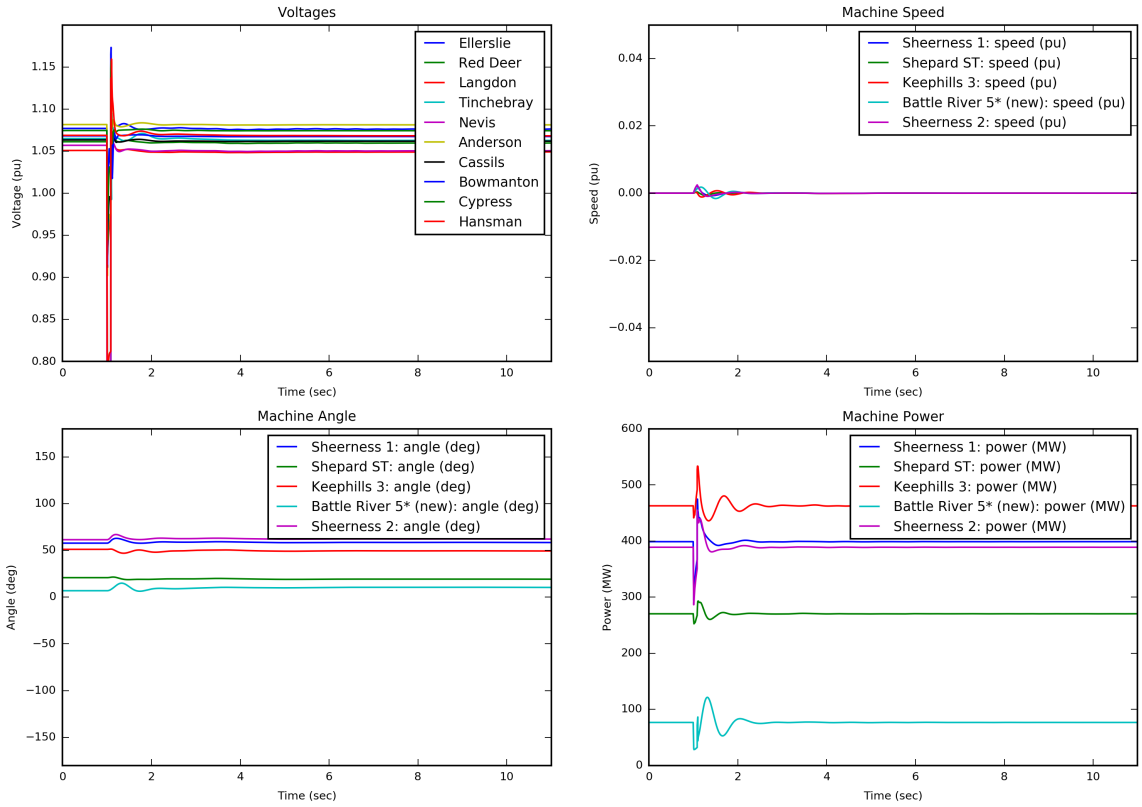
— T = 1.0020 s: Applied 3-ph fault on 9L20 (Nevis - Cordel) near Nevis

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L20 (Nevis - Cordel)

— T = 1.1010 s: Fault is cleared

Figure 126



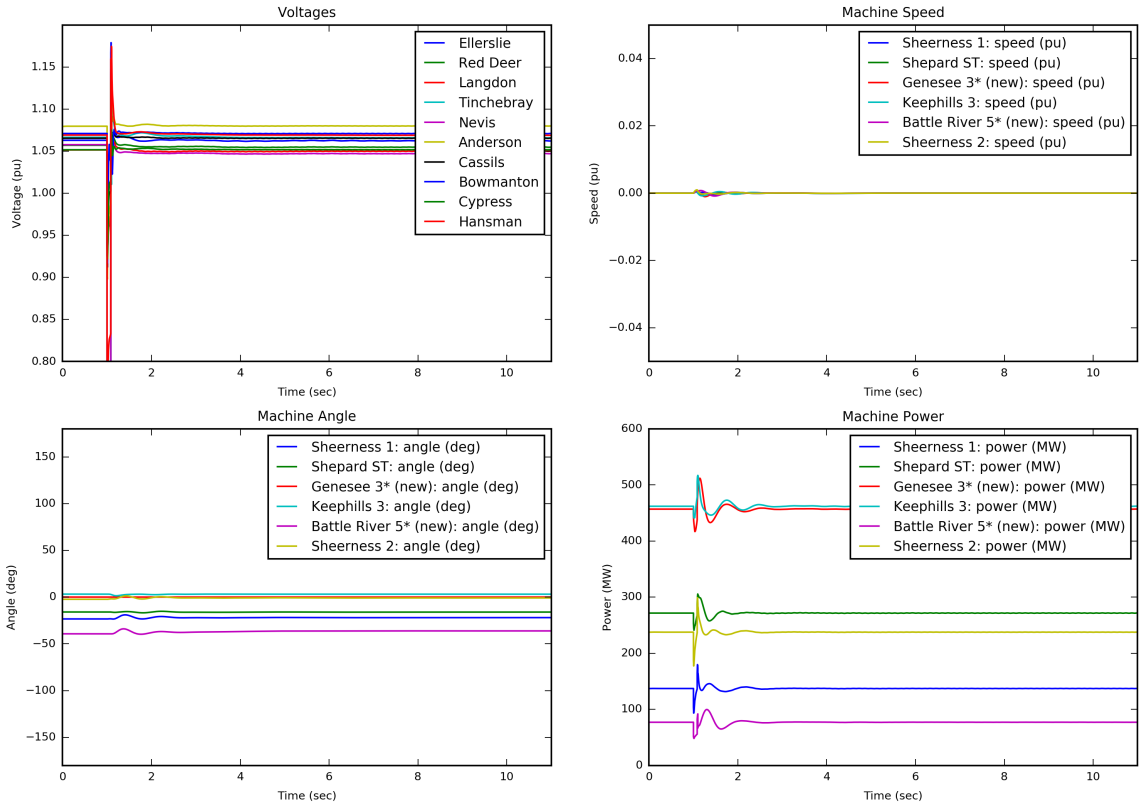
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 9L20 (Nevis - Cordel) near Nevis
- T = 1.0860 s: Opened near end breaker
- T = 1.1010 s: Tripped 9L20 (Nevis - Cordel)
- T = 1.1010 s: Fault is cleared

Figure 127



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

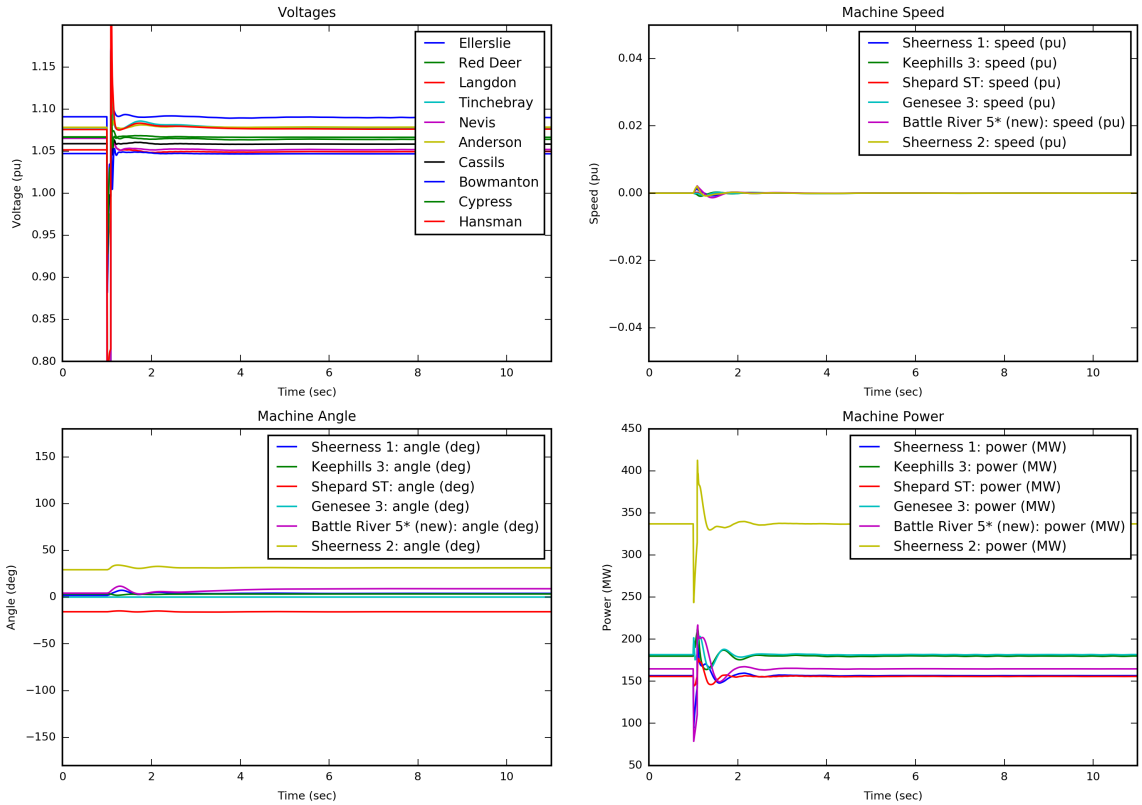
— T = 1.0020 s: Applied 3-ph fault on 9L20 (Nevis - Cordel) near Nevis

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L20 (Nevis - Cordel)

— T = 1.1010 s: Fault is cleared

Figure 128



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

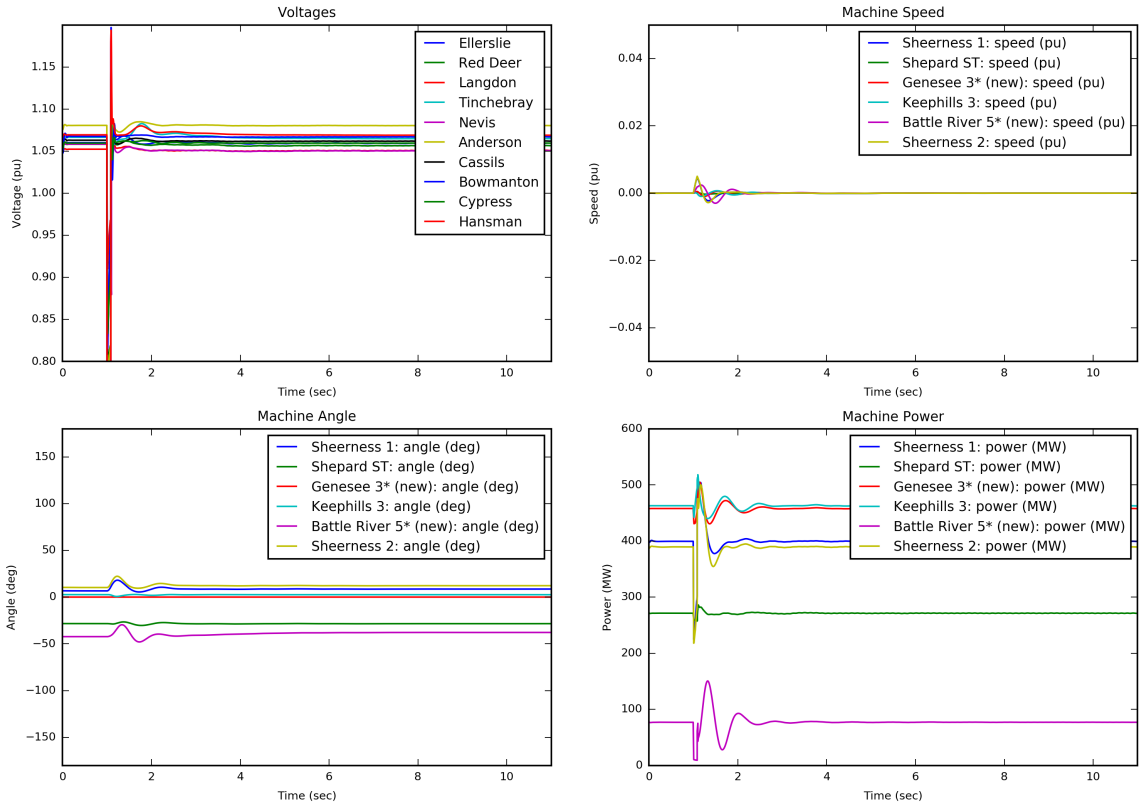
— T = 1.0020 s: Applied 3-ph fault on 9L20 (Nevis - Cordel) near Nevis

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L20 (Nevis - Cordel)

— T = 1.1010 s: Fault is cleared

Figure 129



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

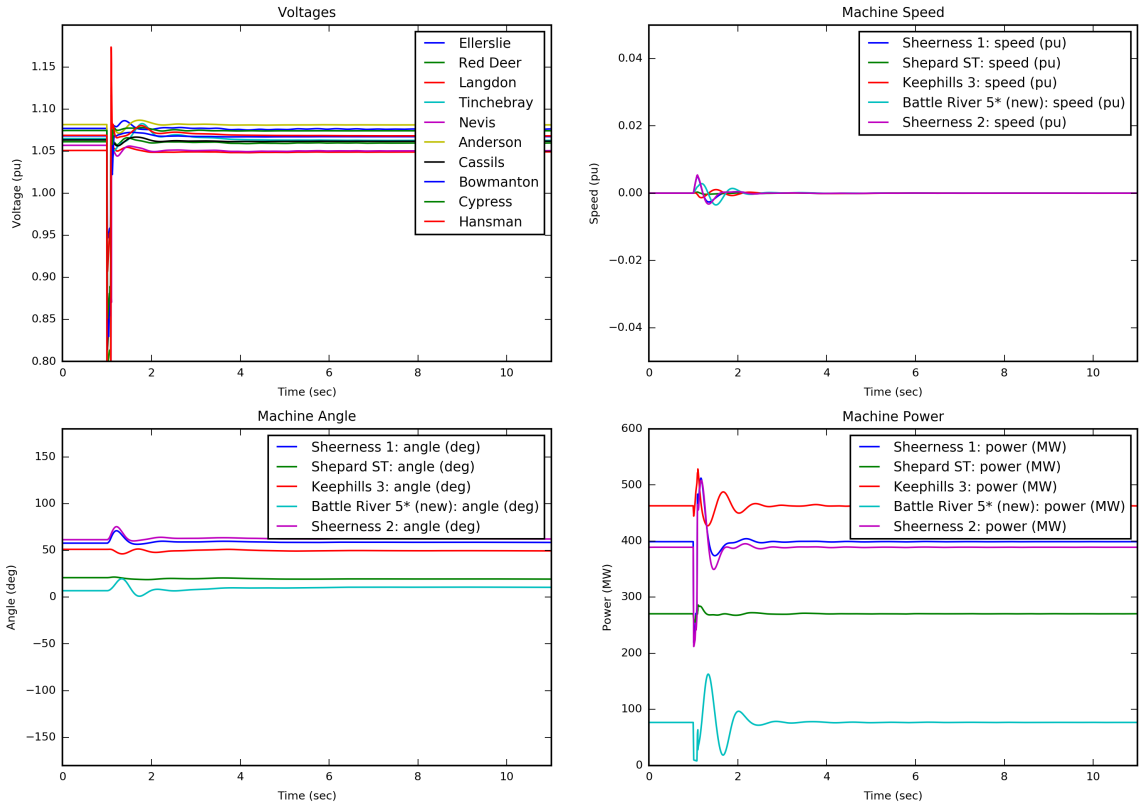
— T = 1.0020 s: Applied 3-ph fault on 9L20 (Cordel - Nevis) near Cordel

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L20 (Cordel - Nevis)

— T = 1.1010 s: Fault is cleared

Figure 130



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

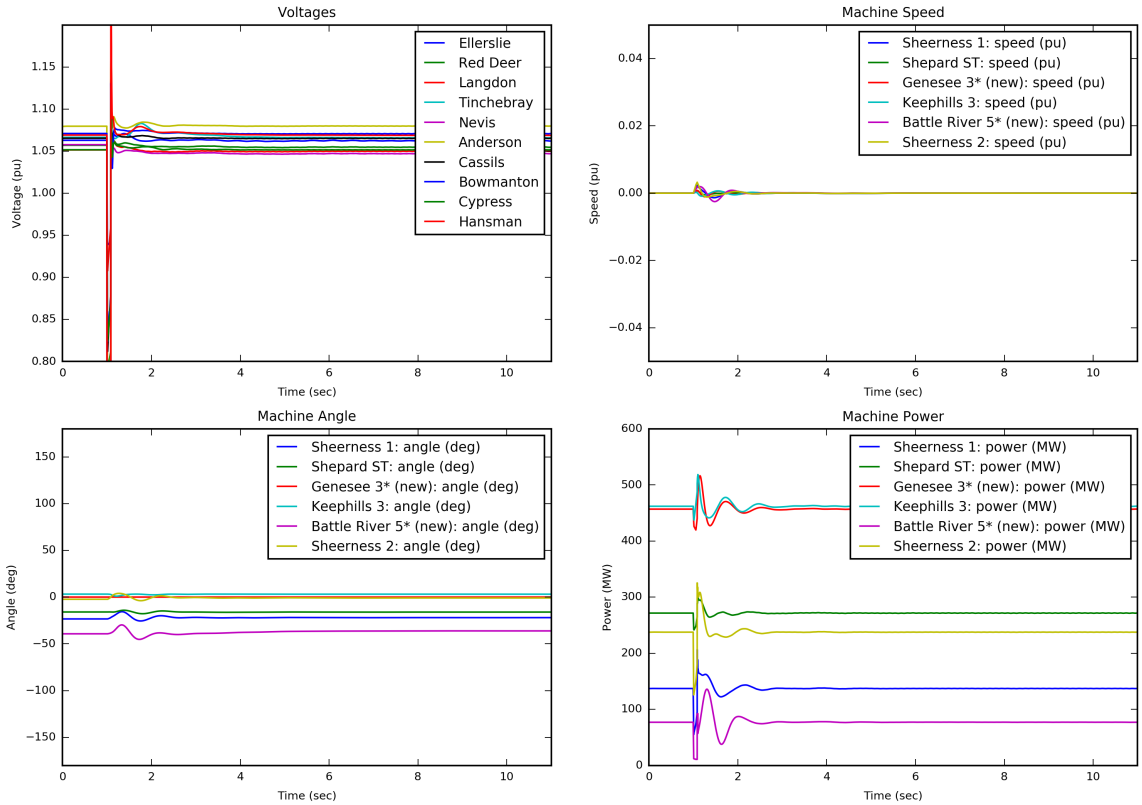
— T = 1.0020 s: Applied 3-ph fault on 9L20 (Cordel - Nevis) near Cordel

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L20 (Cordel - Nevis)

— T = 1.1010 s: Fault is cleared

Figure 131



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

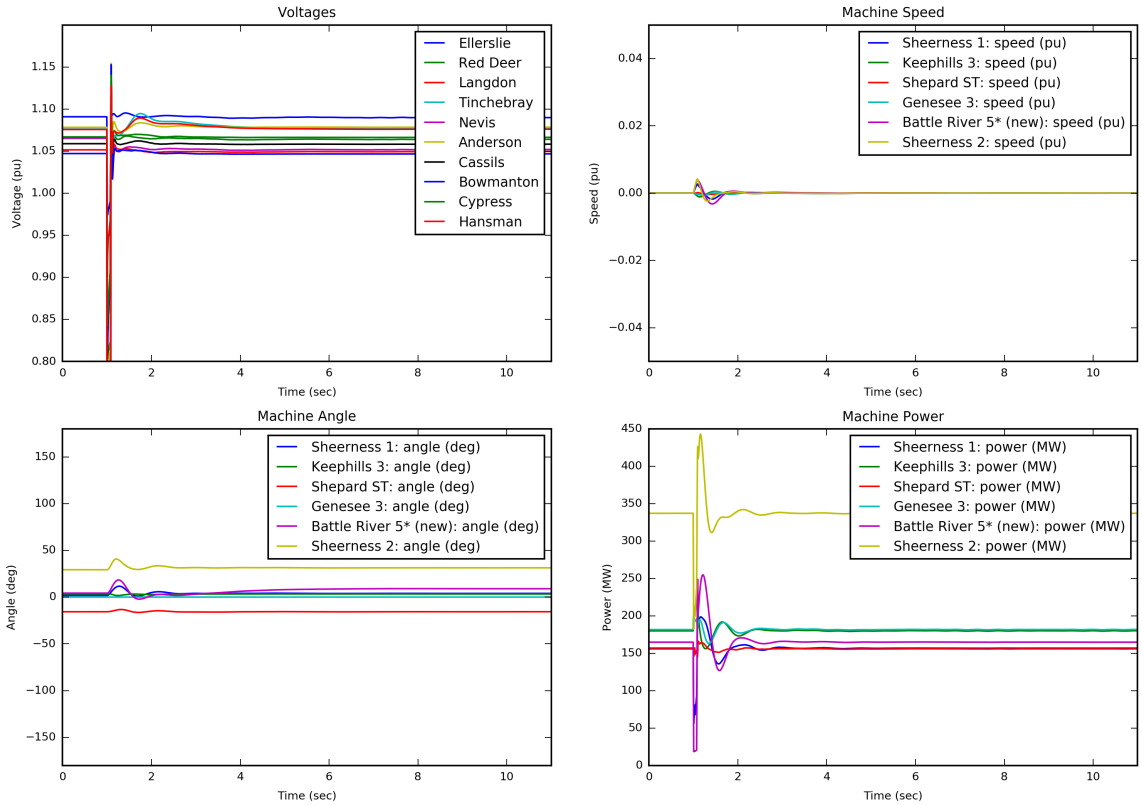
— T = 1.0020 s: Applied 3-ph fault on 9L20 (Cordel - Nevis) near Cordel

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L20 (Cordel - Nevis)

— T = 1.1010 s: Fault is cleared

Figure 132



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

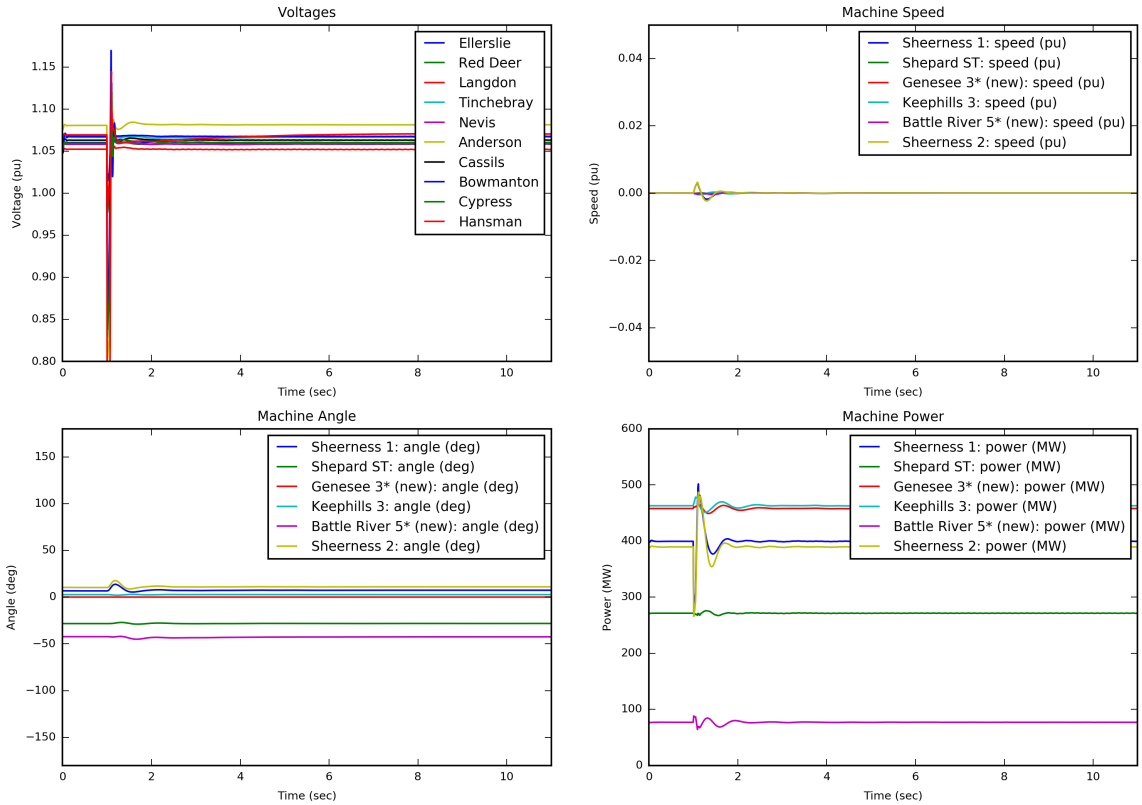
— T = 1.0020 s: Applied 3-ph fault on 9L20 (Cordel - Nevis) near Cordel

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L20 (Cordel - Nevis)

— T = 1.1010 s: Fault is cleared

Figure 133



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

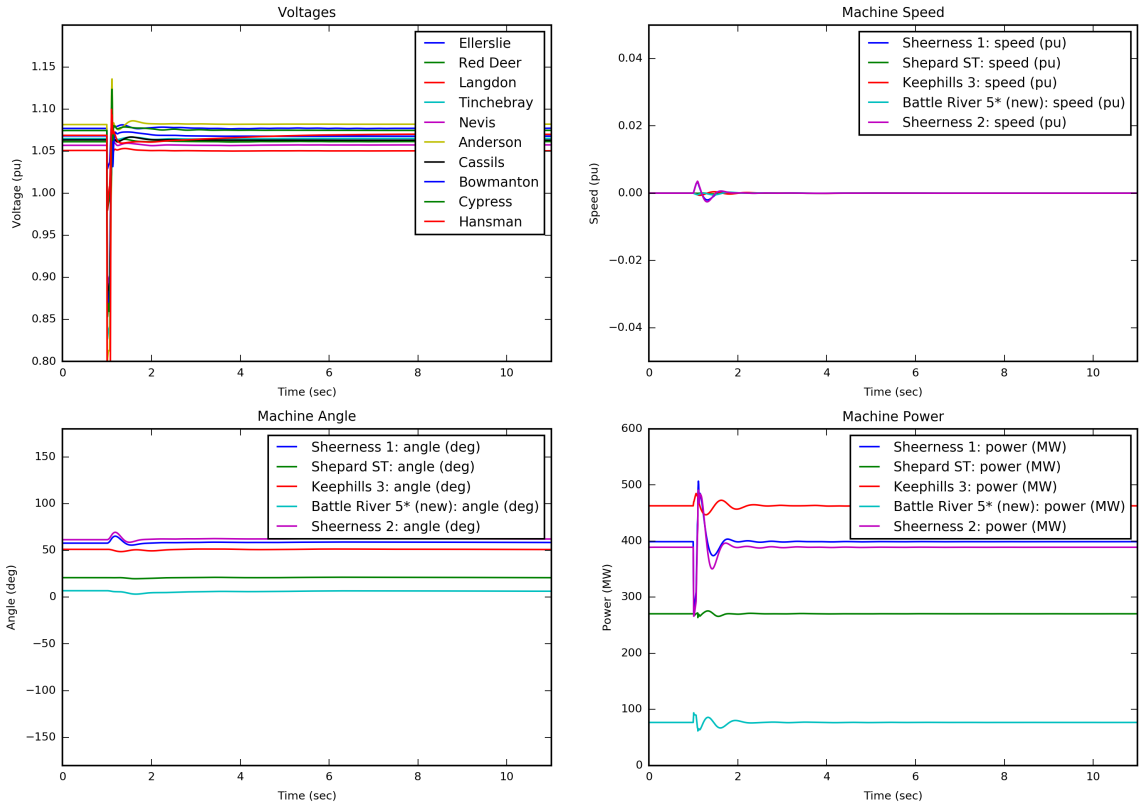
— T = 1.0020 s: Applied 3-ph fault on 9L46 (New Brigden - Lanfine) near New Brigden

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L46 (New Brigden - Lanfine)

— T = 1.1010 s: Fault is cleared

Figure 134



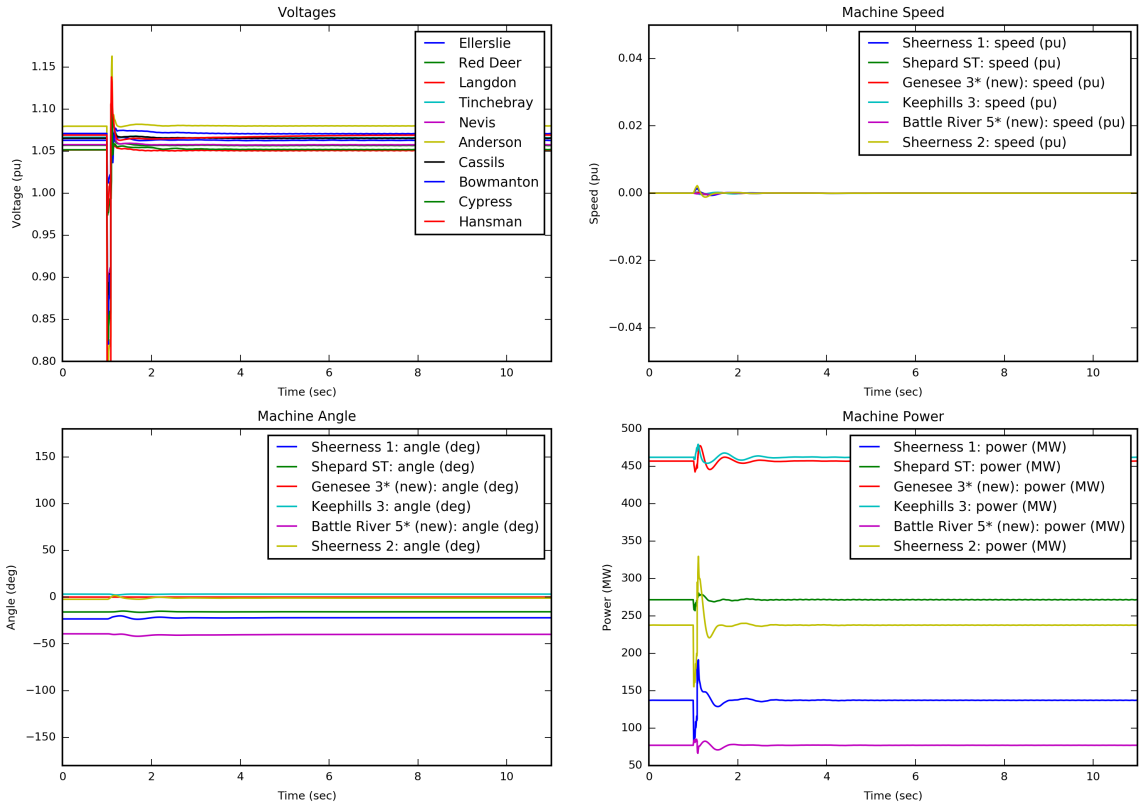
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 9L46 (New Brigden - Lanfine) near New Brigden
- T = 1.0860 s: Opened near end breaker
- T = 1.1010 s: Tripped 9L46 (New Brigden - Lanfine)
- T = 1.1010 s: Fault is cleared

Figure 135



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

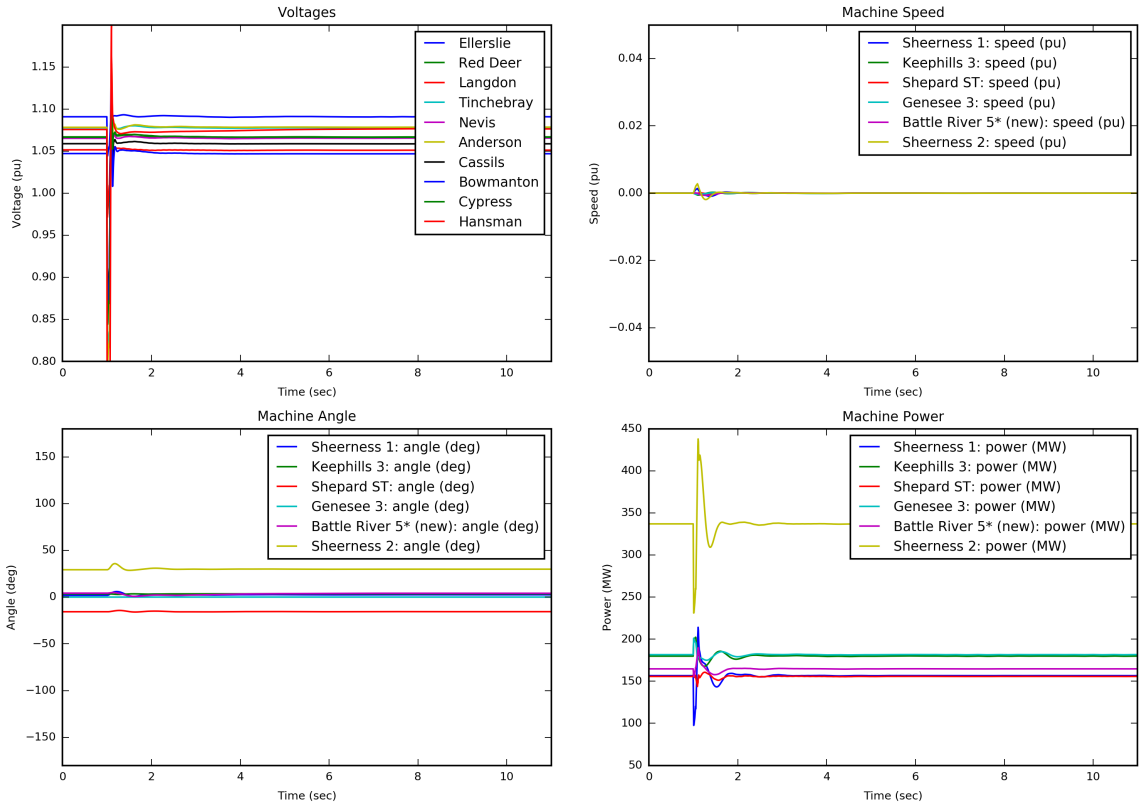
— T = 1.0020 s: Applied 3-ph fault on 9L46 (New Brigden - Lanfine) near New Brigden

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L46 (New Brigden - Lanfine)

— T = 1.1010 s: Fault is cleared

Figure 136



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

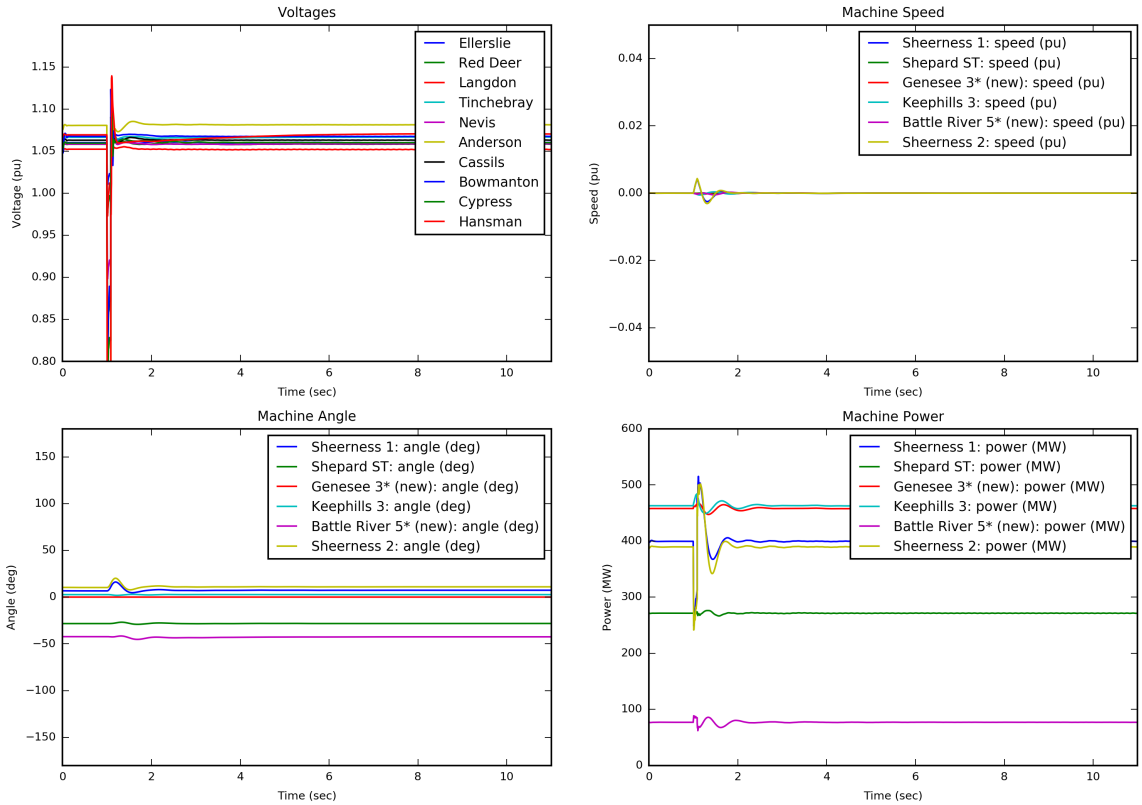
— T = 1.0020 s: Applied 3-ph fault on 9L46 (New Brigden - Lanfine) near New Brigden

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L46 (New Brigden - Lanfine)

— T = 1.1010 s: Fault is cleared

Figure 137



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

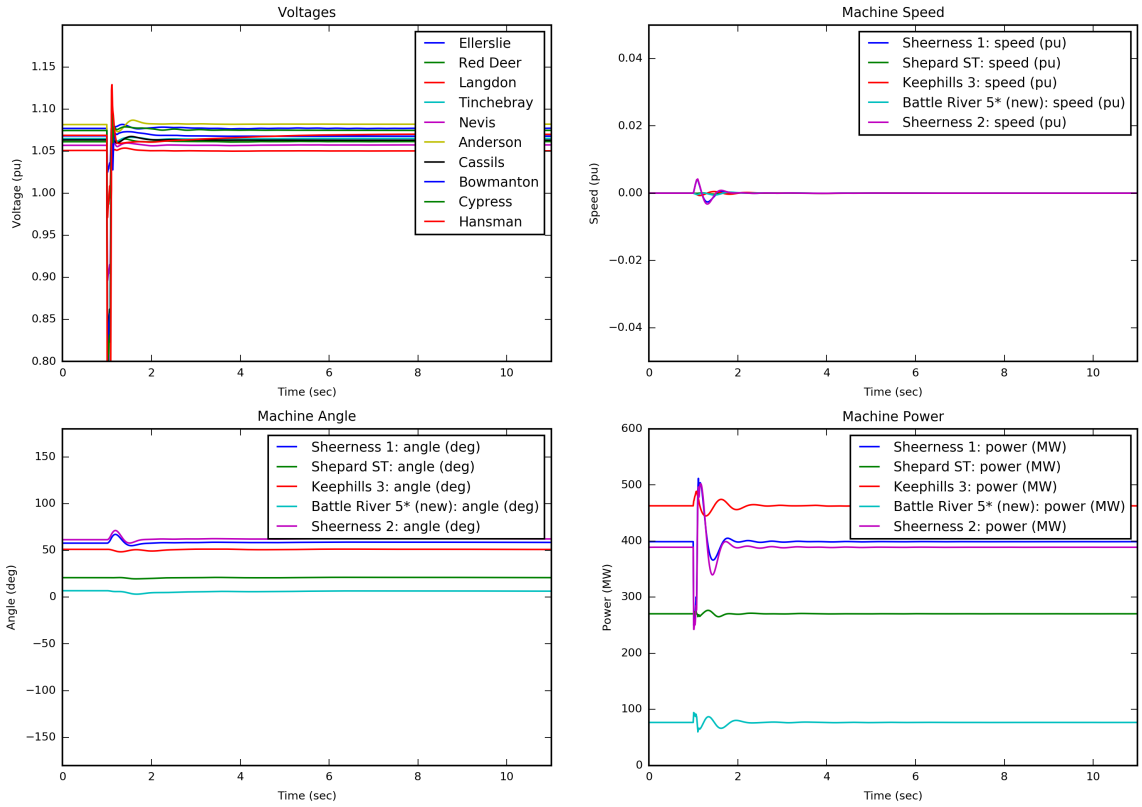
— T = 1.0020 s: Applied 3-ph fault on 9L46 (Lanfine - New Bridgen) near Lanfine

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L46 (Lanfine - New Bridgen)

— T = 1.1010 s: Fault is cleared

Figure 138



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

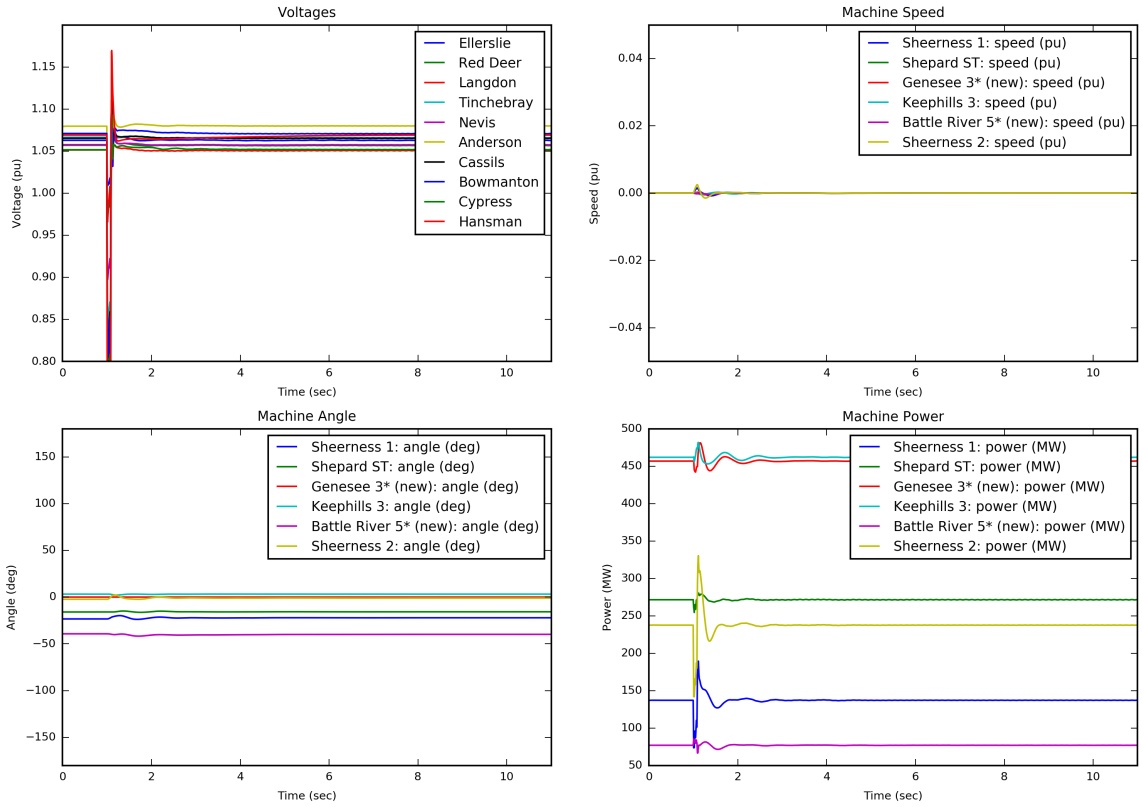
— T = 1.0020 s: Applied 3-ph fault on 9L46 (Lanfine - New Bridgen) near Lanfine

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L46 (Lanfine - New Bridgen)

— T = 1.1010 s: Fault is cleared

Figure 139



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

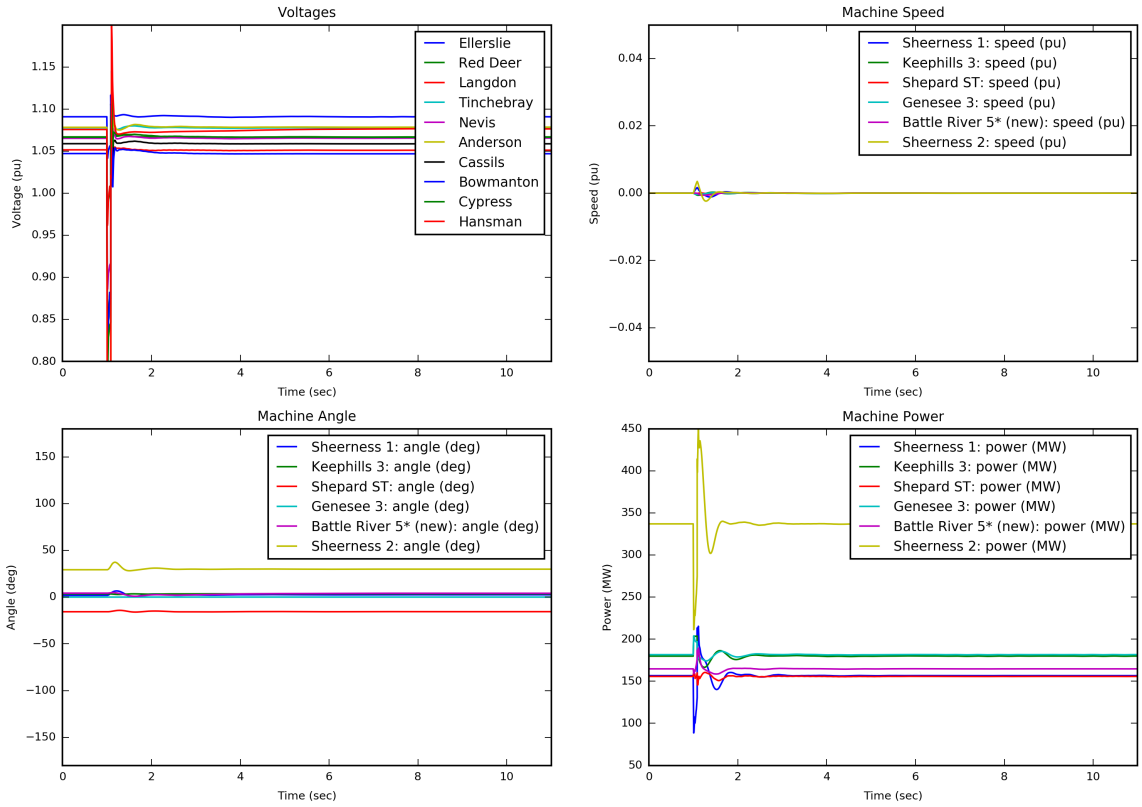
— T = 1.0020 s: Applied 3-ph fault on 9L46 (Lanfine - New Bridgen) near Lanfine

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L46 (Lanfine - New Bridgen)

— T = 1.1010 s: Fault is cleared

Figure 140



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

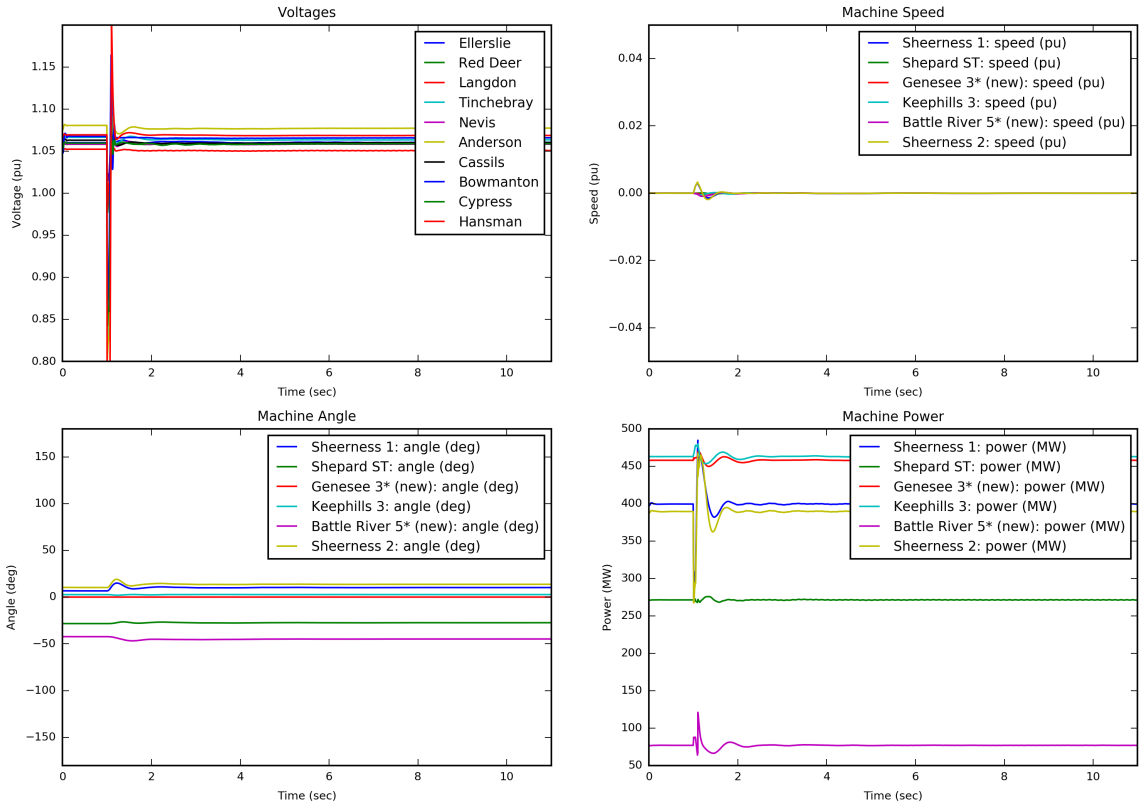
— T = 1.0020 s: Applied 3-ph fault on 9L46 (Lanfine - New Bridgen) near Lanfine

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L46 (Lanfine - New Bridgen)

— T = 1.1010 s: Fault is cleared

Figure 141



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

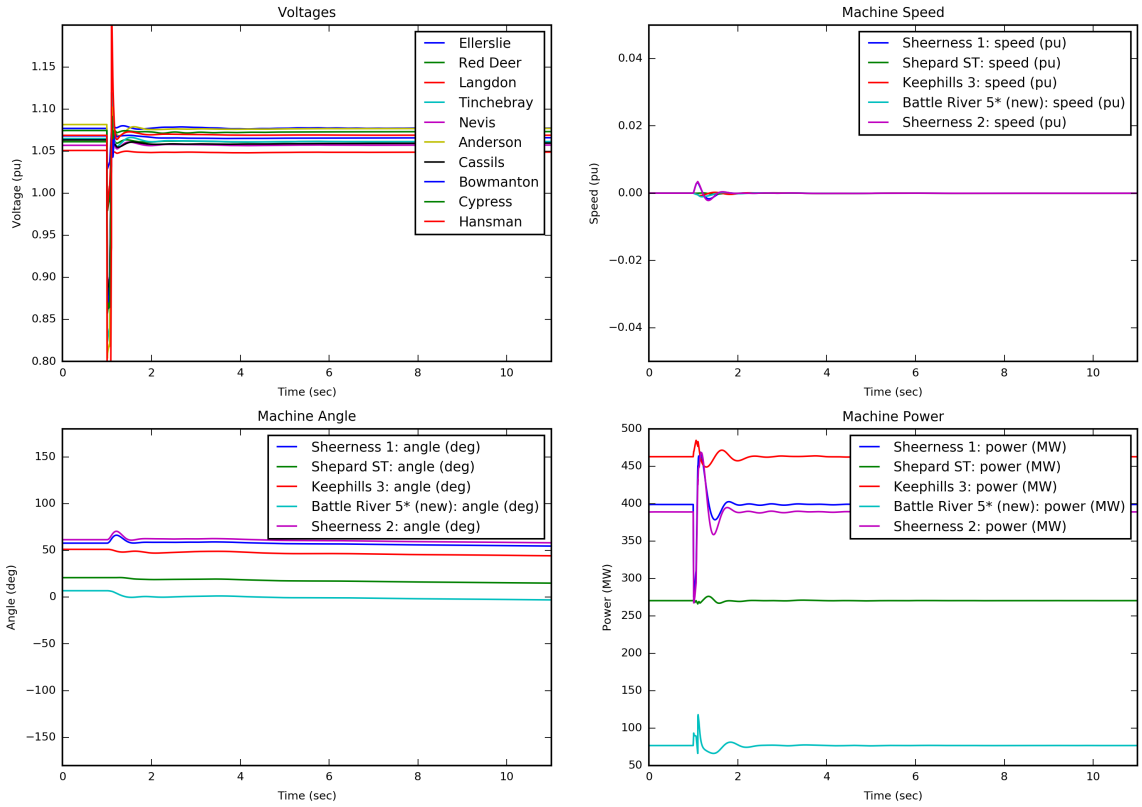
— T = 1.0020 s: Applied 3-ph fault on 9L51 (New Brigden - Pemukan) near New Brigden

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L51 (New Brigden - Pemukan)

— T = 1.1010 s: Fault is cleared

Figure 142



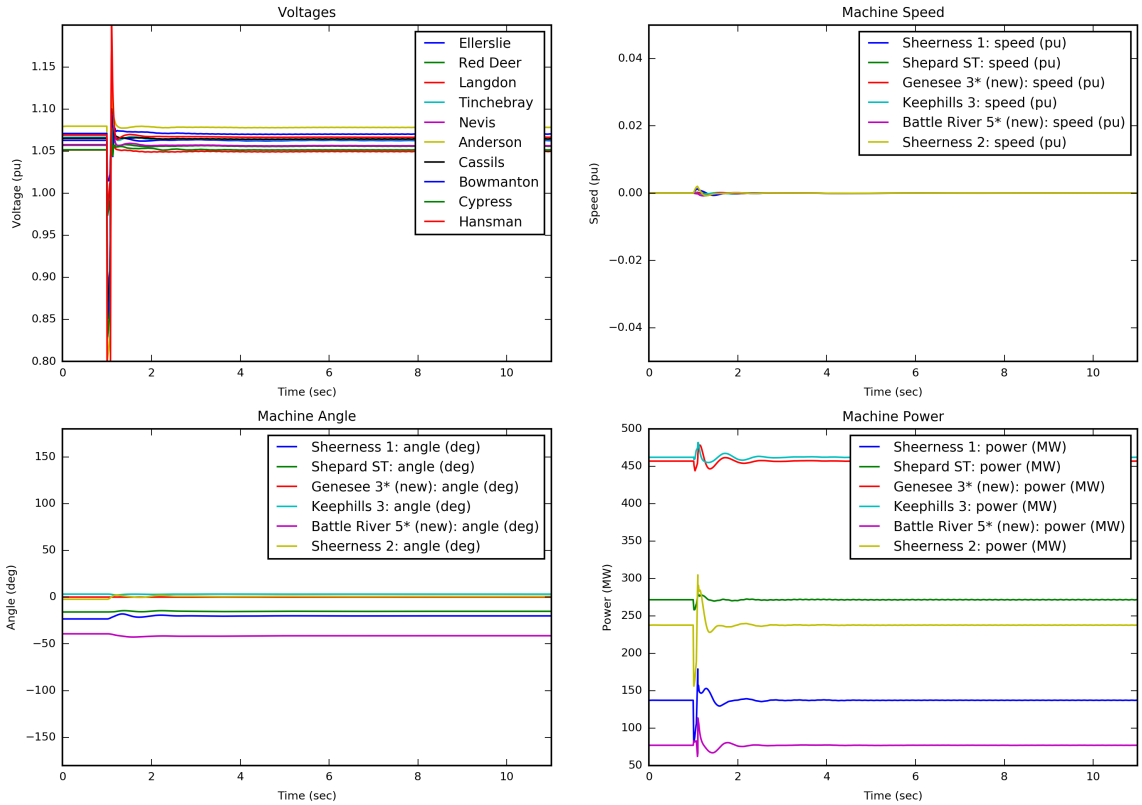
Case Description

- Study case: 2023 H7; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 9L51 (New Brigden - Pemukan) near New Brigden
- T = 1.0860 s: Opened near end breaker
- T = 1.1010 s: Tripped 9L51 (New Brigden - Pemukan)
- T = 1.1010 s: Fault is cleared

Figure 143



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

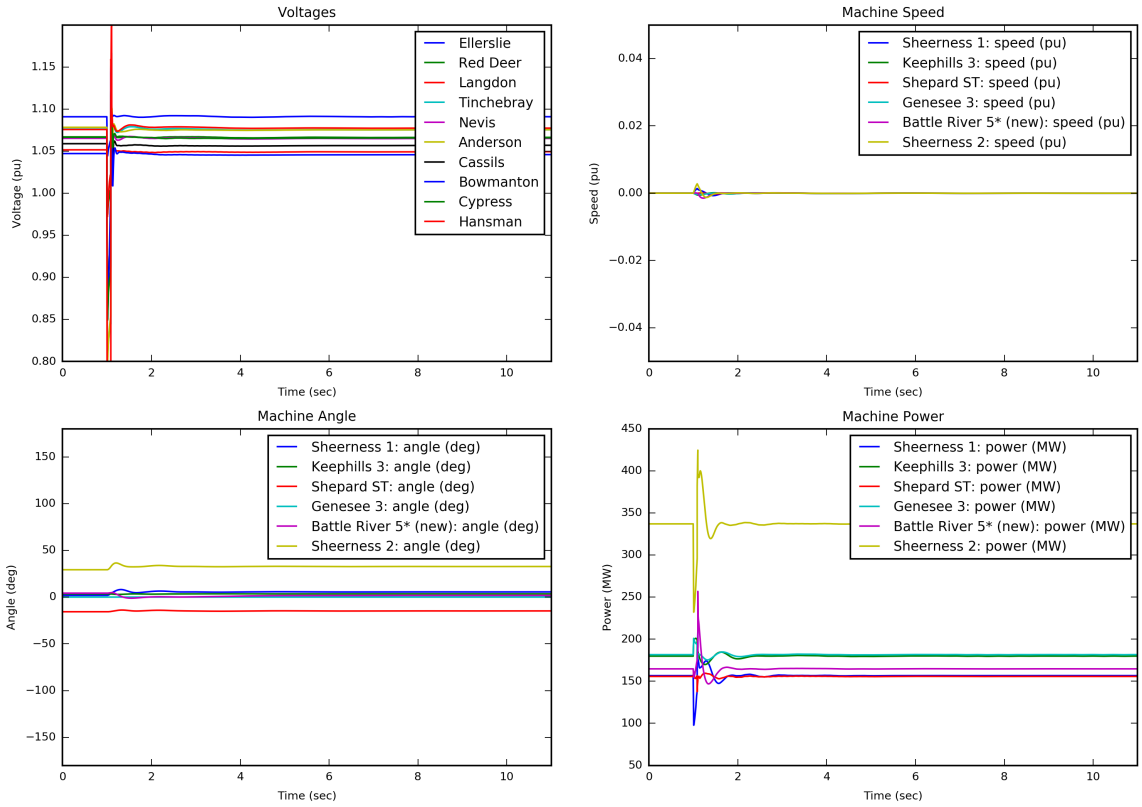
— T = 1.0020 s: Applied 3-ph fault on 9L51 (New Brigden - Pemukan) near New Brigden

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L51 (New Brigden - Pemukan)

— T = 1.1010 s: Fault is cleared

Figure 144



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

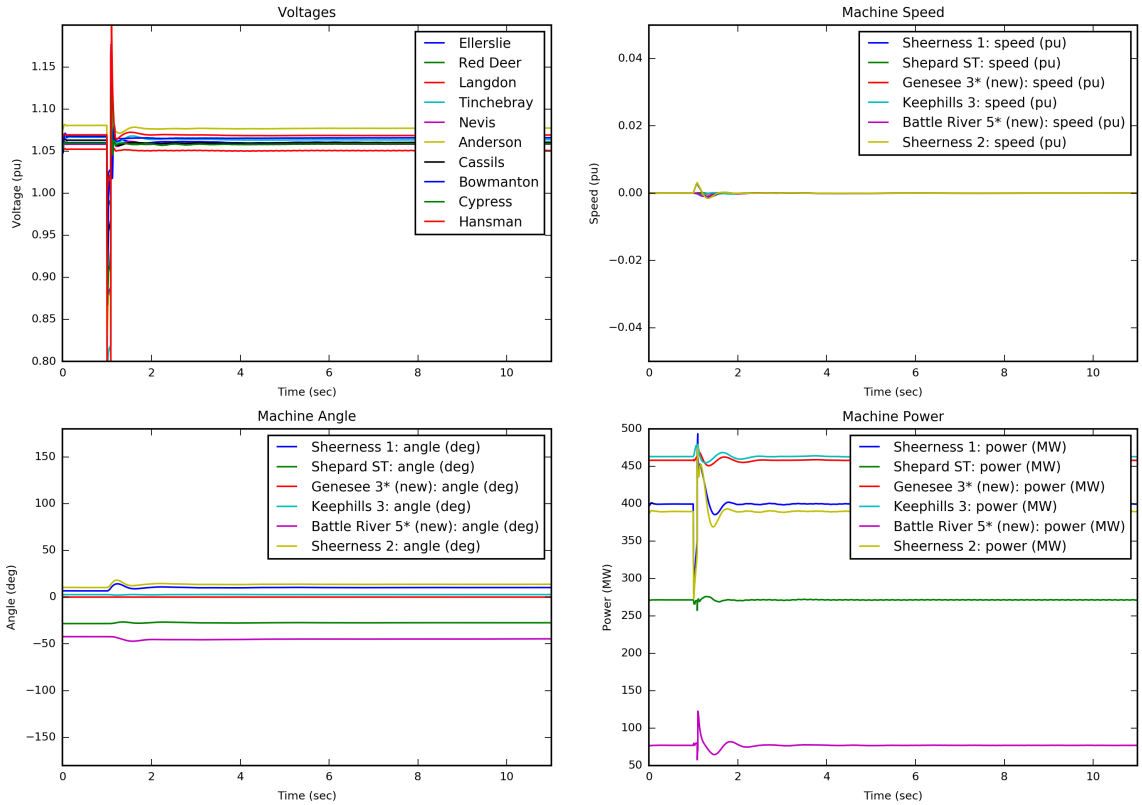
— T = 1.0020 s: Applied 3-ph fault on 9L51 (New Brigden - Pemukan) near New Brigden

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L51 (New Brigden - Pemukan)

— T = 1.1010 s: Fault is cleared

Figure 145



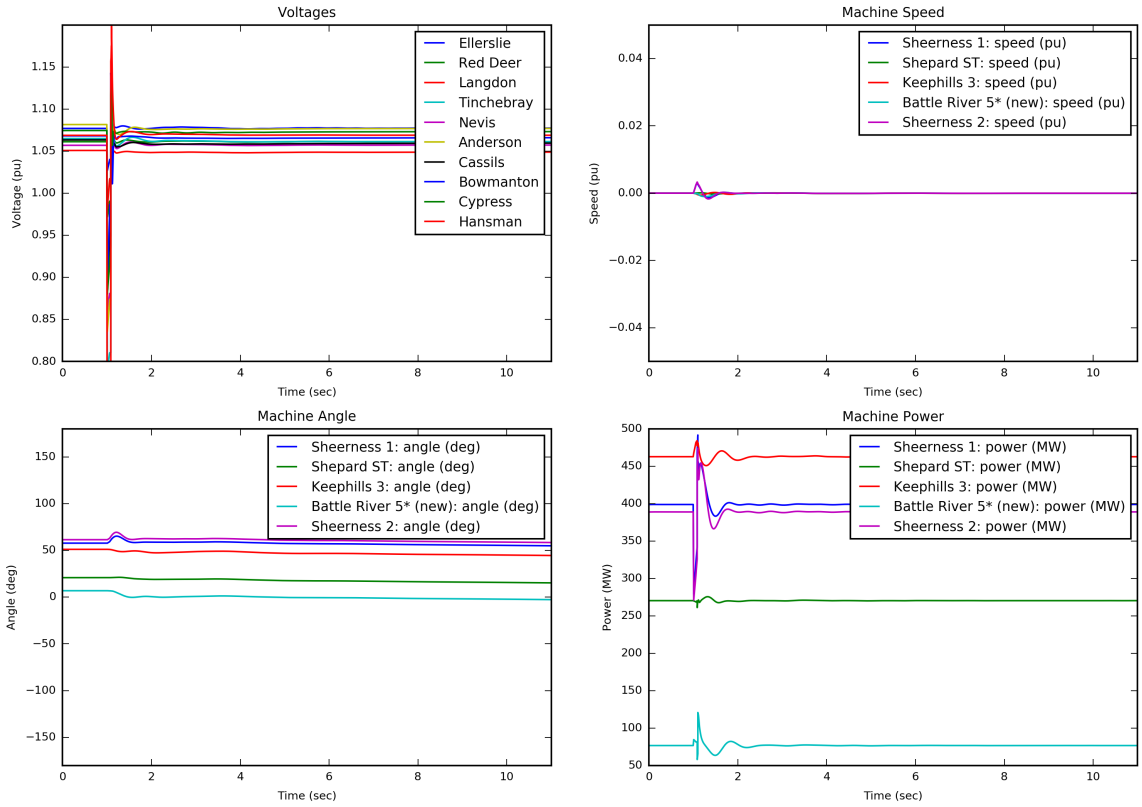
Case Description

- Study case: 2023 H4; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on 9L51 (Pemukan - New Bridgen) near Pemukan
- T = 1.0860 s: Opened near end breaker
- T = 1.1010 s: Tripped 9L51 (Pemukan - New Bridgen)
- T = 1.1010 s: Fault is cleared

Figure 146



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

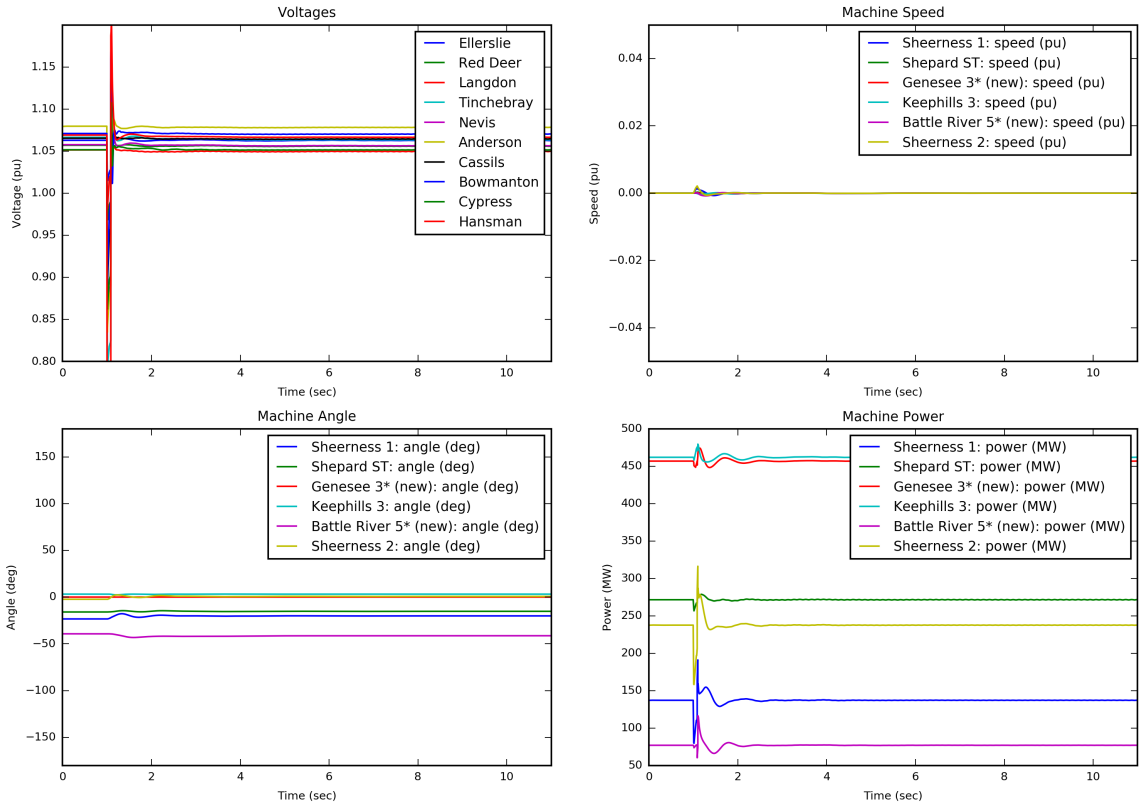
— T = 1.0020 s: Applied 3-ph fault on 9L51 (Pemukan - New Bridgen) near Pemukan

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L51 (Pemukan - New Bridgen)

— T = 1.1010 s: Fault is cleared

Figure 147



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

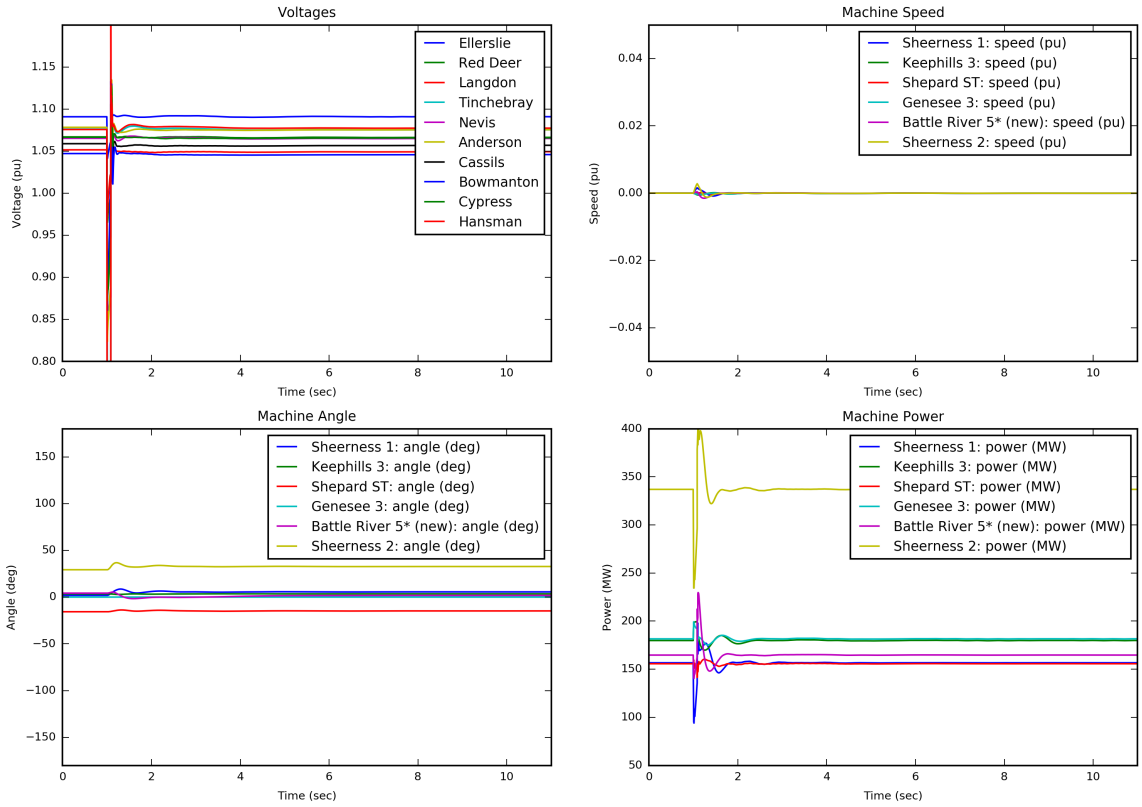
— T = 1.0020 s: Applied 3-ph fault on 9L51 (Pemukan - New Bridgen) near Pemukan

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L51 (Pemukan - New Bridgen)

— T = 1.1010 s: Fault is cleared

Figure 148



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

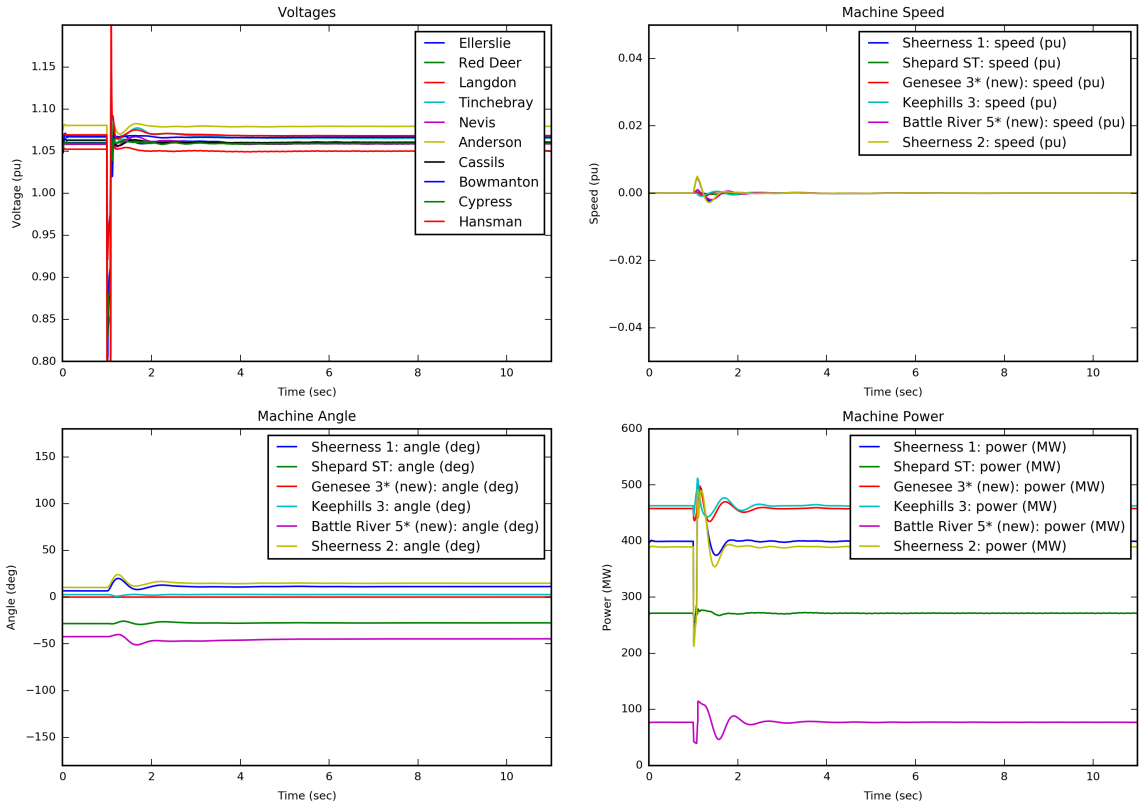
— T = 1.0020 s: Applied 3-ph fault on 9L51 (Pemukan - New Bridgen) near Pemukan

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L51 (Pemukan - New Bridgen)

— T = 1.1010 s: Fault is cleared

Figure 149



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

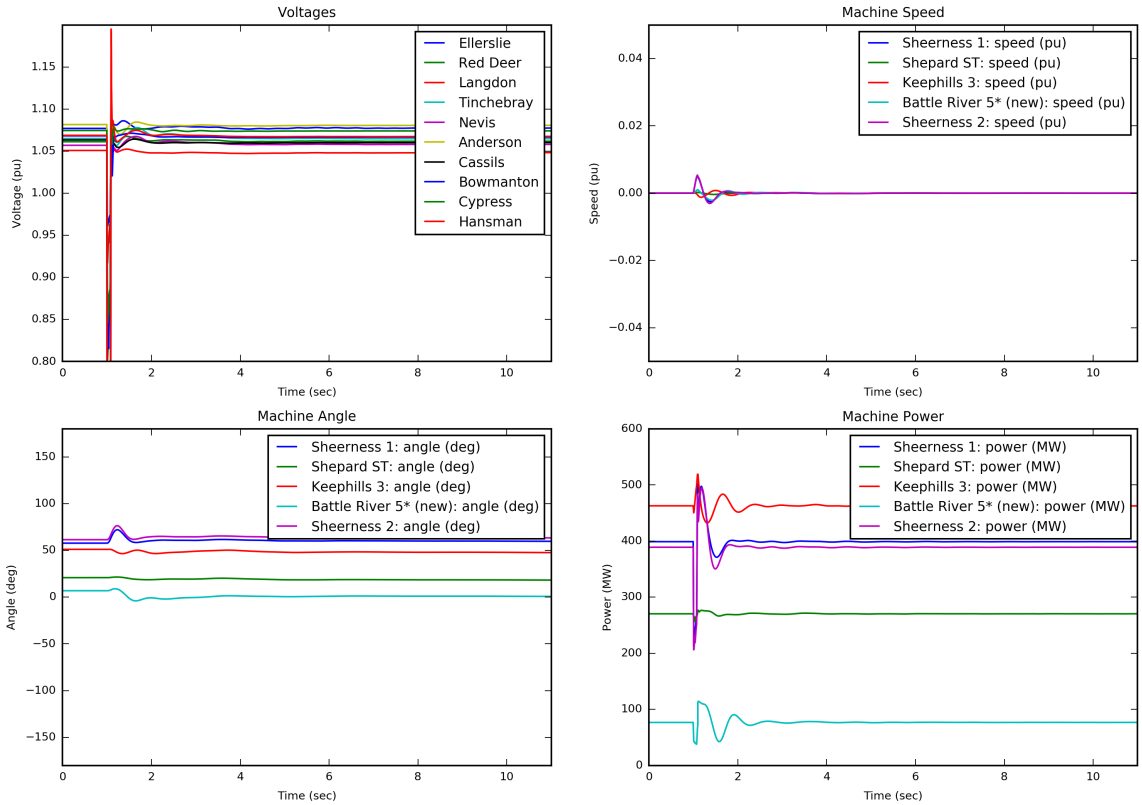
— T = 1.0020 s: Applied 3-ph fault on 9L59 (Tinchebray - Anderson) near Tinchebray

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L59 (Tinchebray - Anderson)

— T = 1.1010 s: Fault is cleared

Figure 150



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

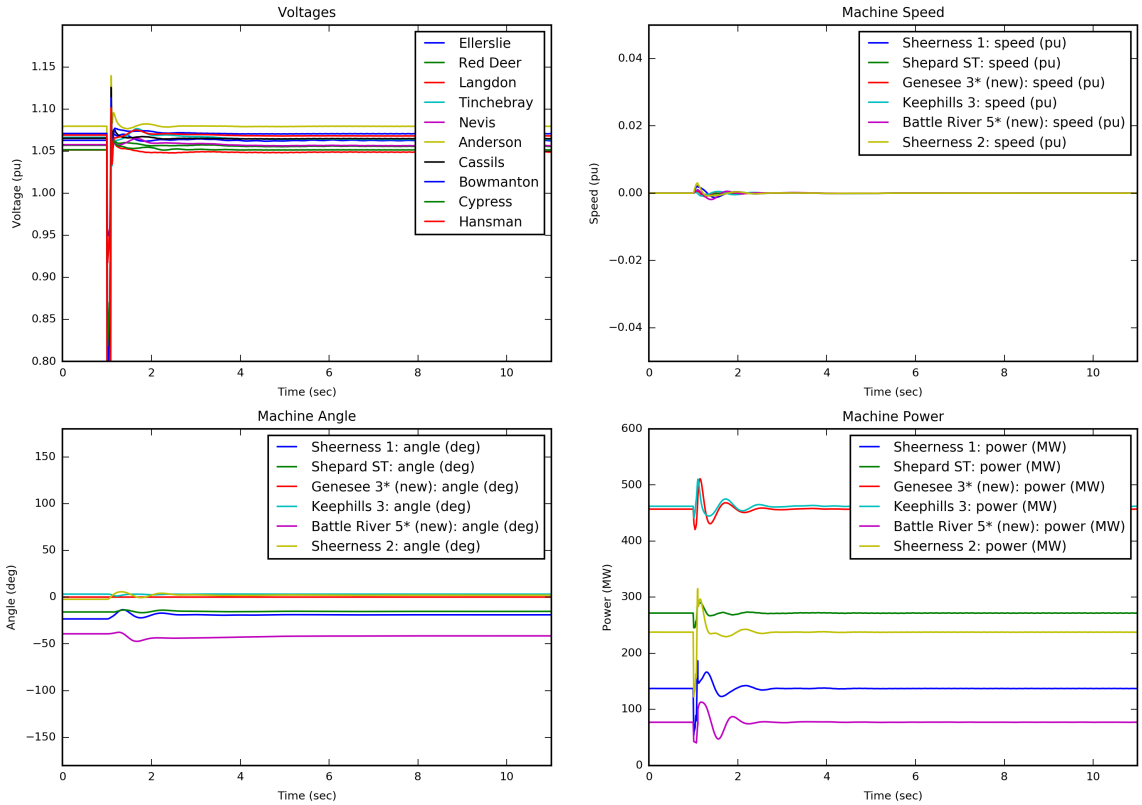
— T = 1.0020 s: Applied 3-ph fault on 9L59 (Tinchebray - Anderson) near Tinchebray

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L59 (Tinchebray - Anderson)

— T = 1.1010 s: Fault is cleared

Figure 151



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

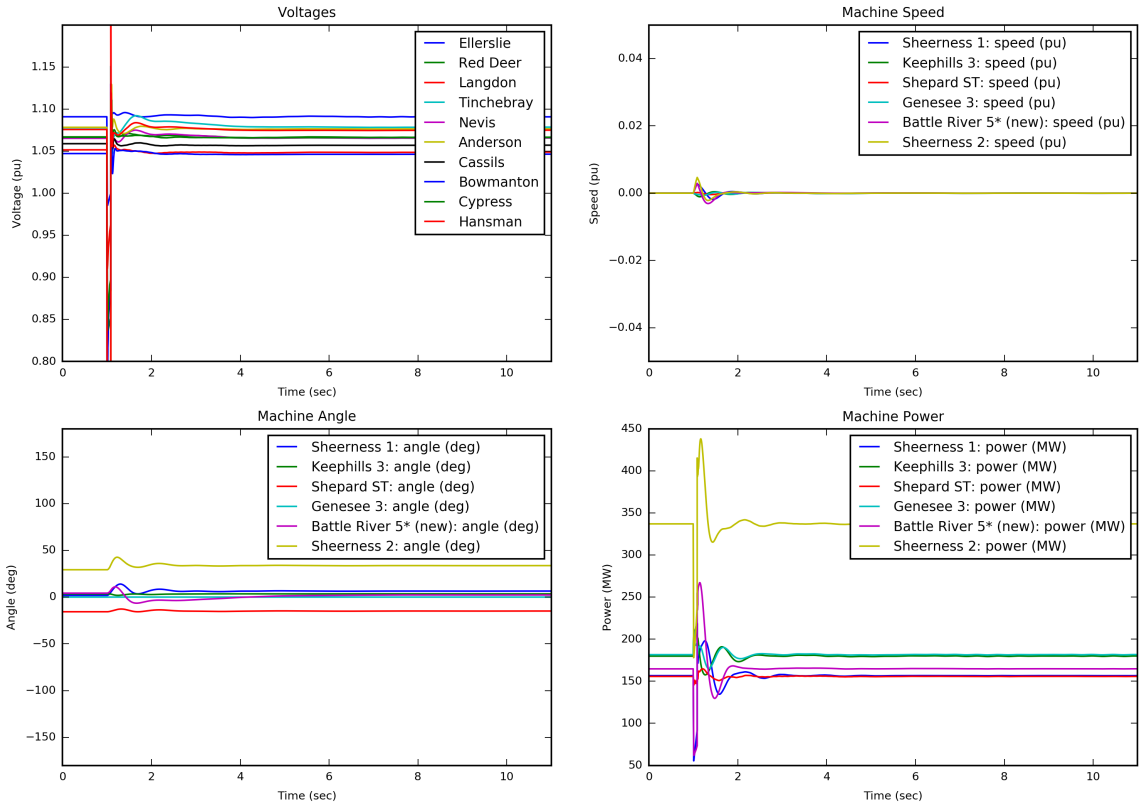
— T = 1.0020 s: Applied 3-ph fault on 9L59 (Tinchebray - Anderson) near Tinchebray

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L59 (Tinchebray - Anderson)

— T = 1.1010 s: Fault is cleared

Figure 152



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

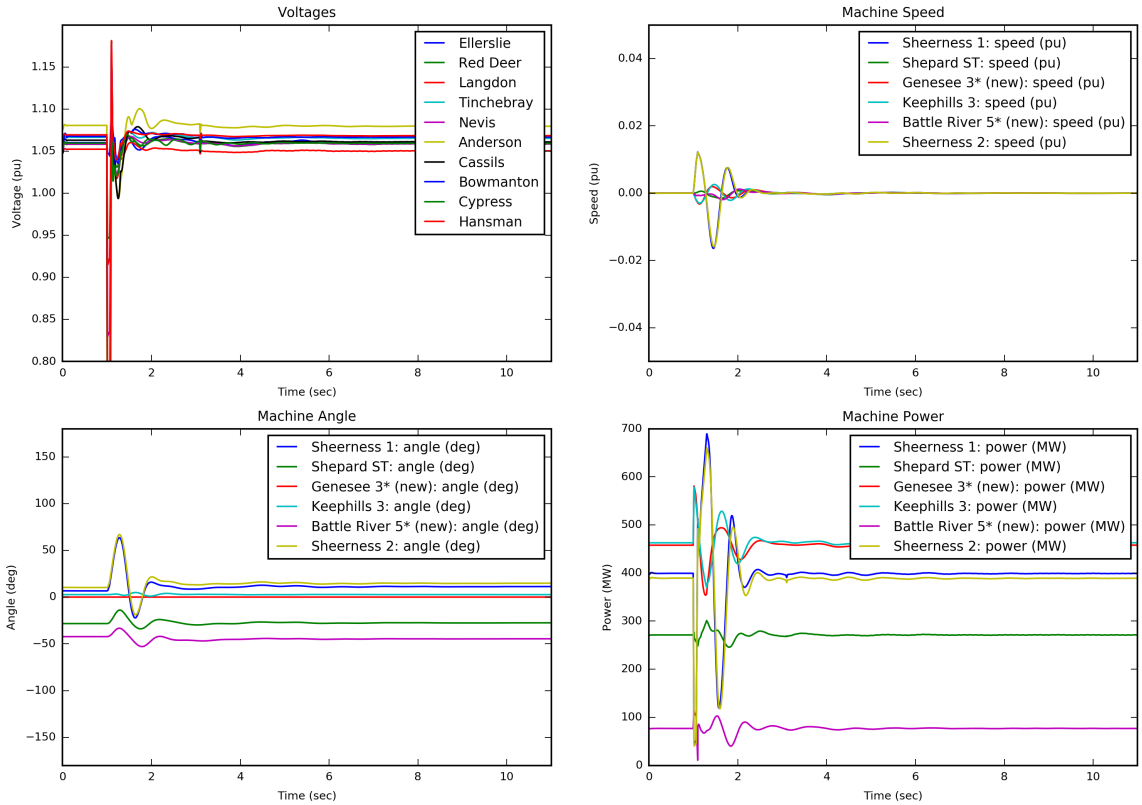
— T = 1.0020 s: Applied 3-ph fault on 9L59 (Tinchebray - Anderson) near Tinchebray

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L59 (Tinchebray - Anderson)

— T = 1.1010 s: Fault is cleared

Figure 153



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

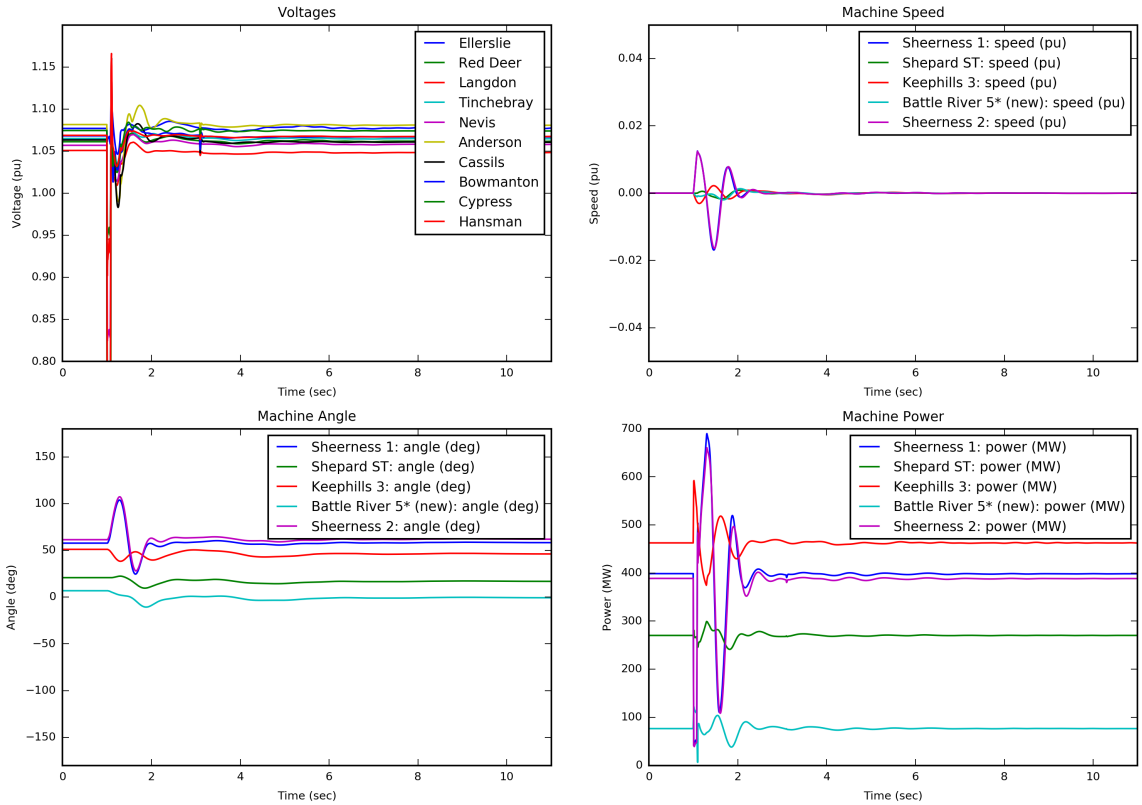
— T = 1.0020 s: Applied 3-ph fault on 9L59 (Anderson - Tinchebray) near Anderson

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L59 (Anderson - Tinchebray)

— T = 1.1010 s: Fault is cleared

Figure 154



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

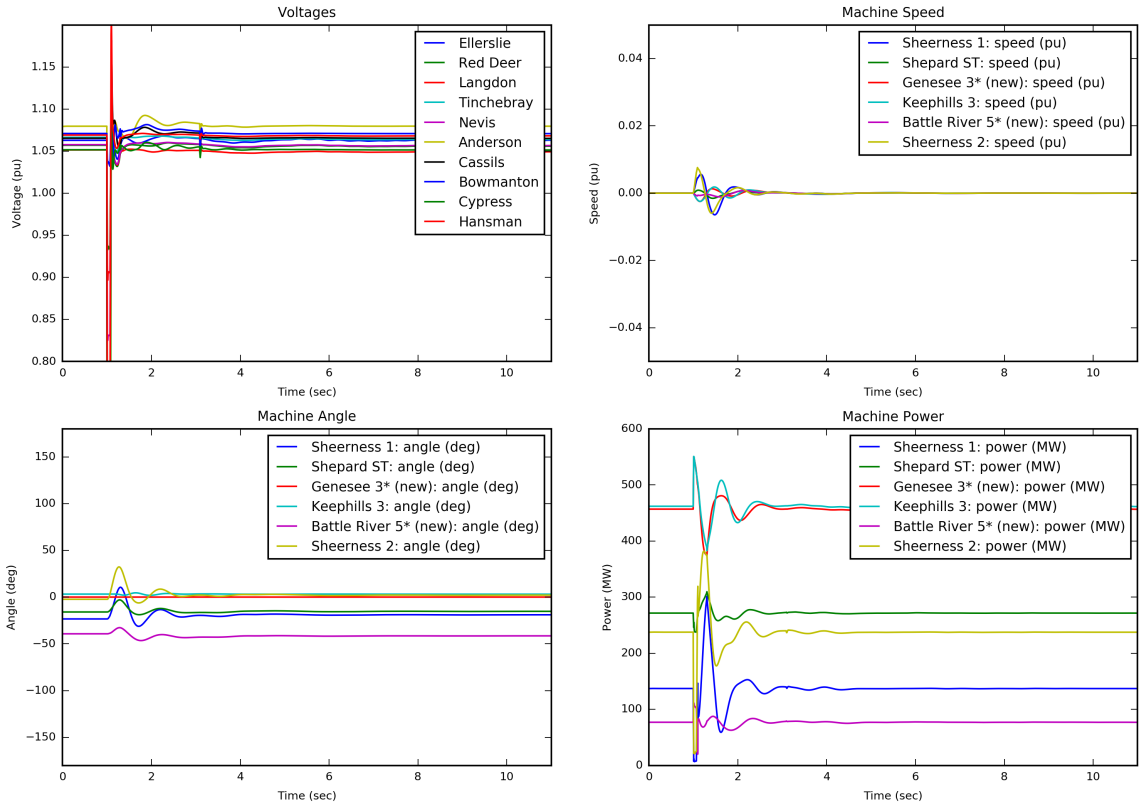
— T = 1.0020 s: Applied 3-ph fault on 9L59 (Anderson - Tinchebray) near Anderson

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L59 (Anderson - Tinchebray)

— T = 1.1010 s: Fault is cleared

Figure 155



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

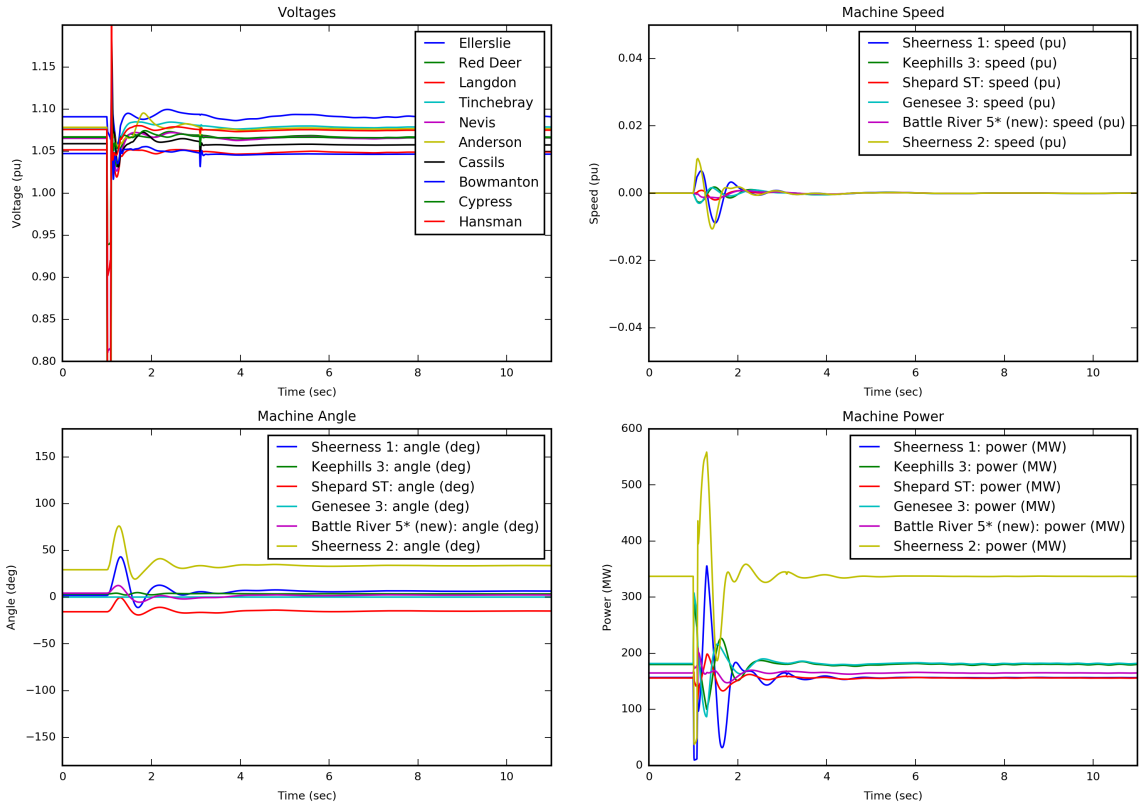
— T = 1.0020 s: Applied 3-ph fault on 9L59 (Anderson - Tinchebray) near Anderson

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L59 (Anderson - Tinchebray)

— T = 1.1010 s: Fault is cleared

Figure 156



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

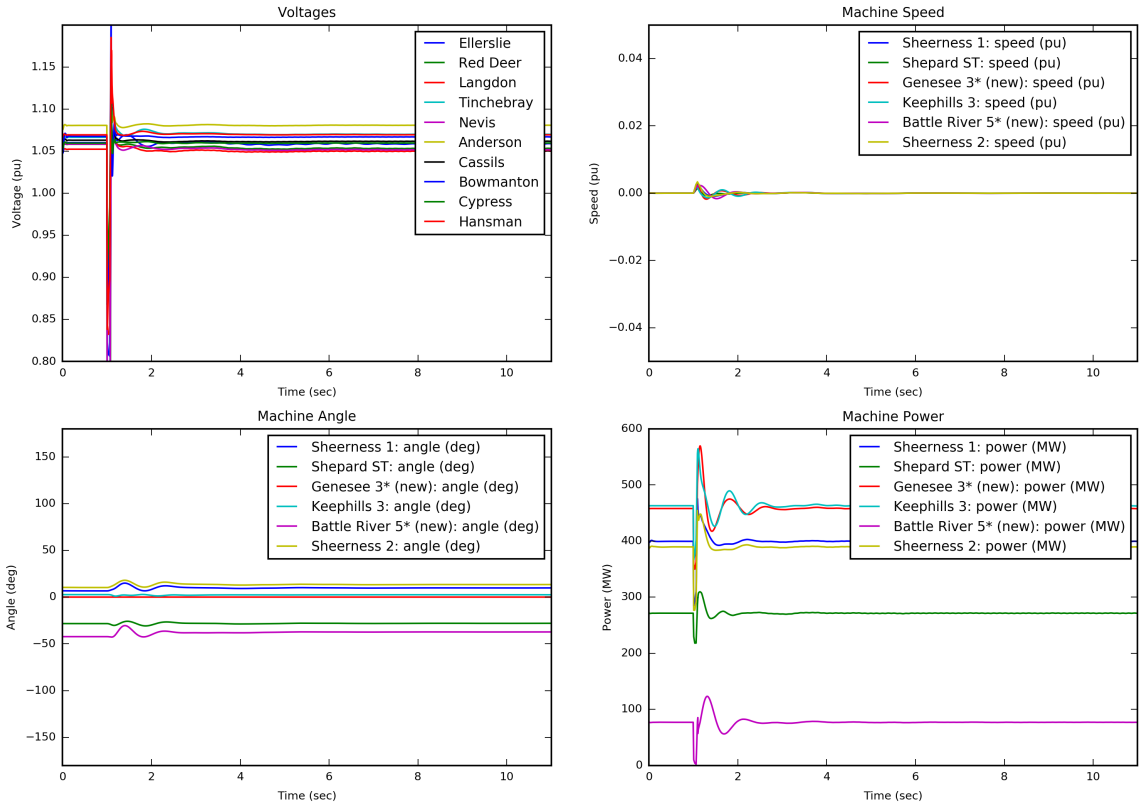
— T = 1.0020 s: Applied 3-ph fault on 9L59 (Anderson - Tinchebray) near Anderson

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped 9L59 (Anderson - Tinchebray)

— T = 1.1010 s: Fault is cleared

Figure 157



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

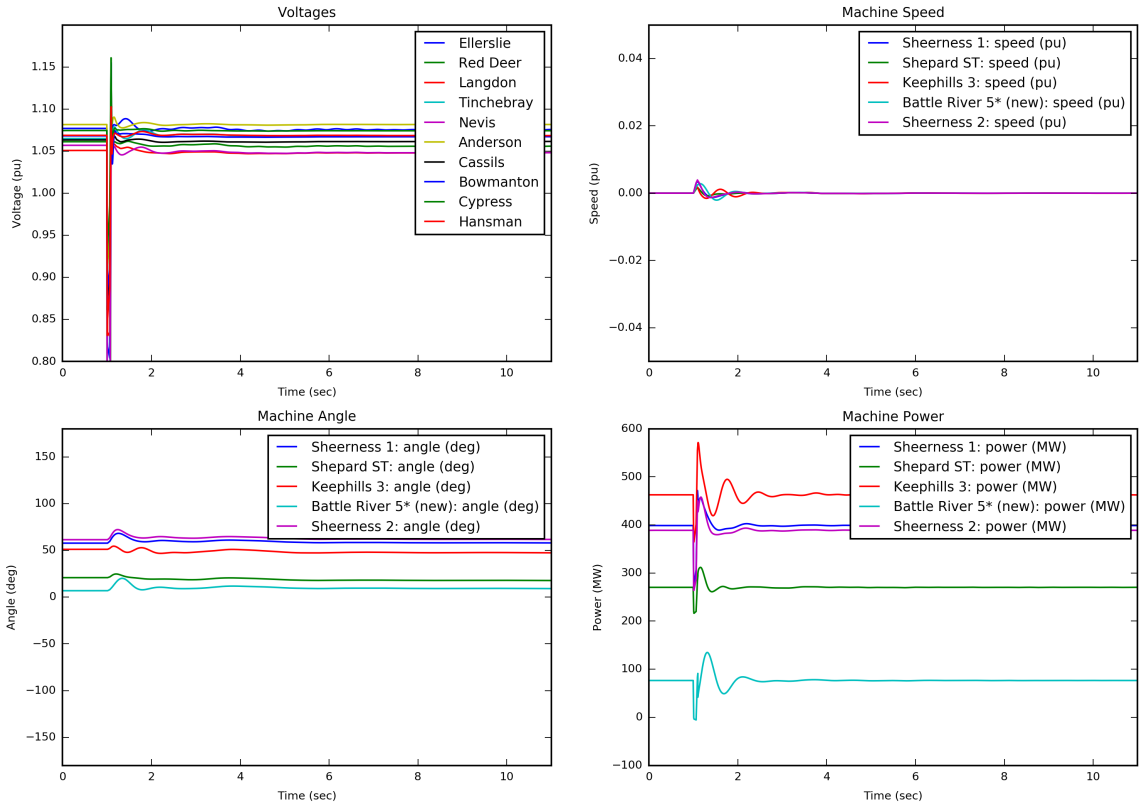
— T = 1.0020 s: Applied 3-ph fault on CETO1 (Tinchebray - Gaetz) near Tinchebray

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped CETO1 (Tinchebray - Gaetz)

— T = 1.1010 s: Fault is cleared

Figure 158



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

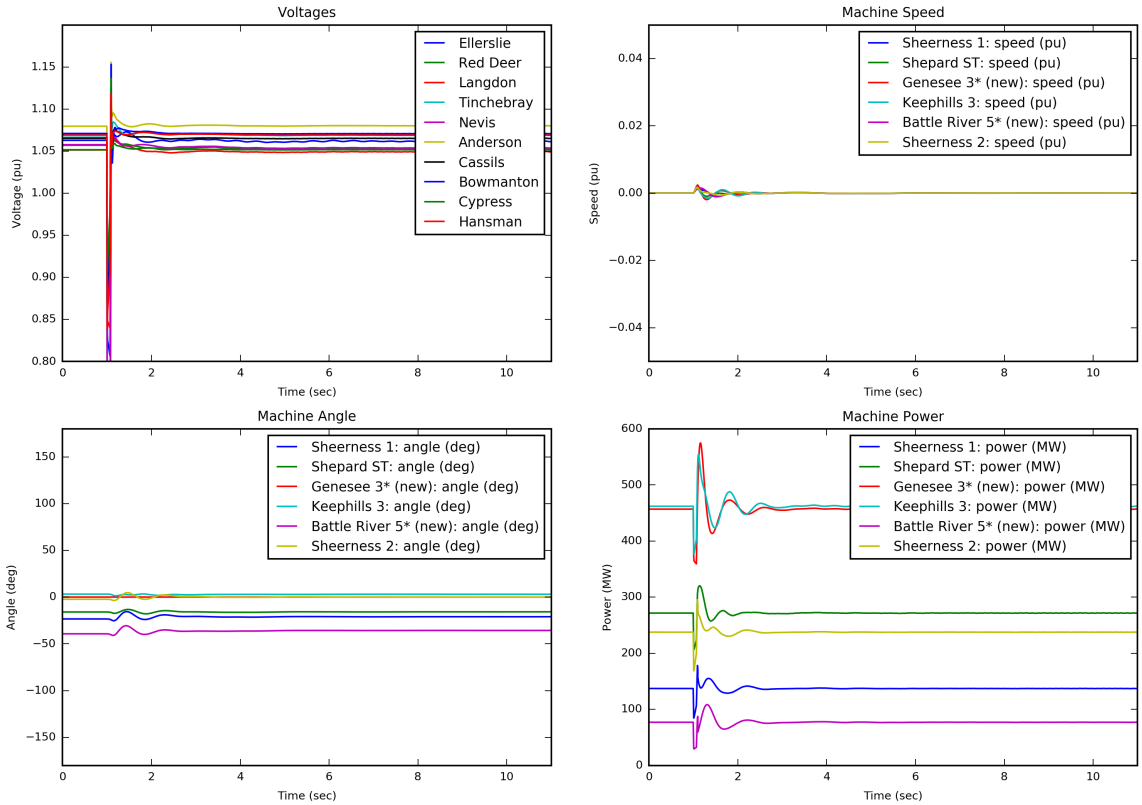
— T = 1.0020 s: Applied 3-ph fault on CETO1 (Tinchebray - Gaetz) near Tinchebray

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped CETO1 (Tinchebray - Gaetz)

— T = 1.1010 s: Fault is cleared

Figure 159



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

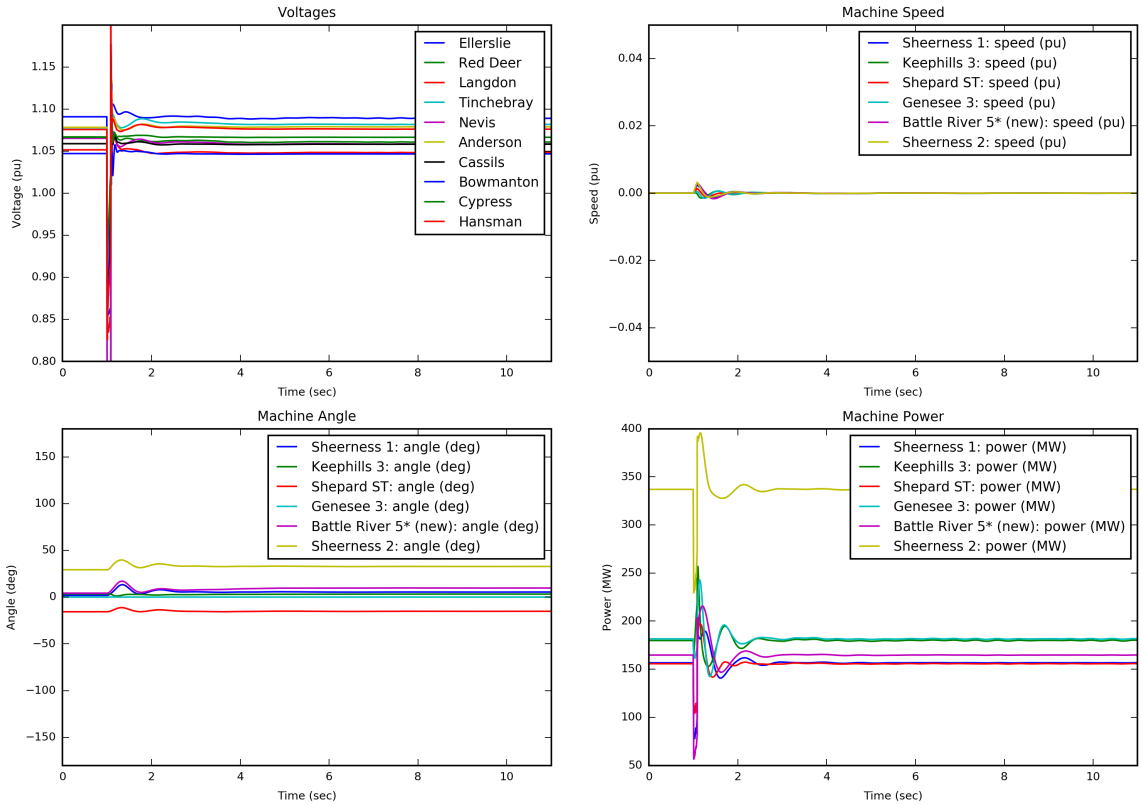
— T = 1.0020 s: Applied 3-ph fault on CETO1 (Tinchebray - Gaetz) near Tinchebray

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped CETO1 (Tinchebray - Gaetz)

— T = 1.1010 s: Fault is cleared

Figure 160



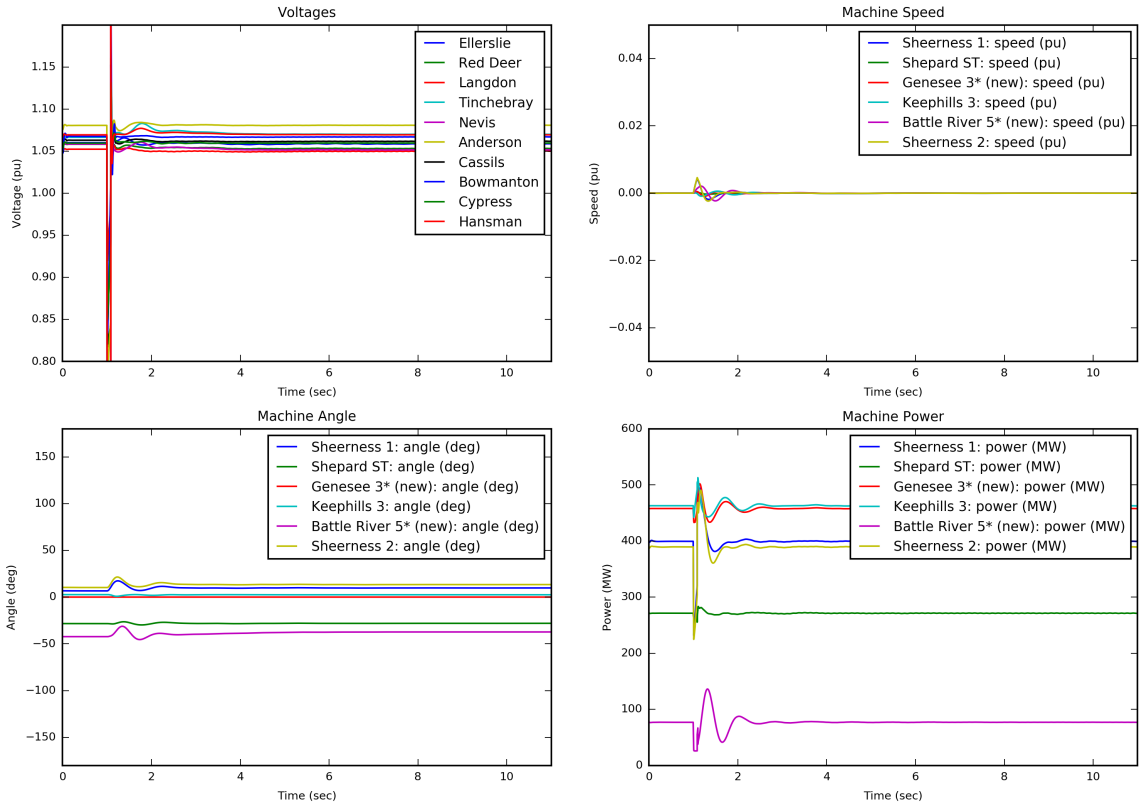
Case Description

- Study case: 2023 H3; CRPC and CETO Circuits

Event Description

- T = 1.0020 s: Applied 3-ph fault on CETO1 (Tinchebray - Gaetz) near Tinchebray
- T = 1.0860 s: Opened near end breaker
- T = 1.1010 s: Tripped CETO1 (Tinchebray - Gaetz)
- T = 1.1010 s: Fault is cleared

Figure 161



Case Description

— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

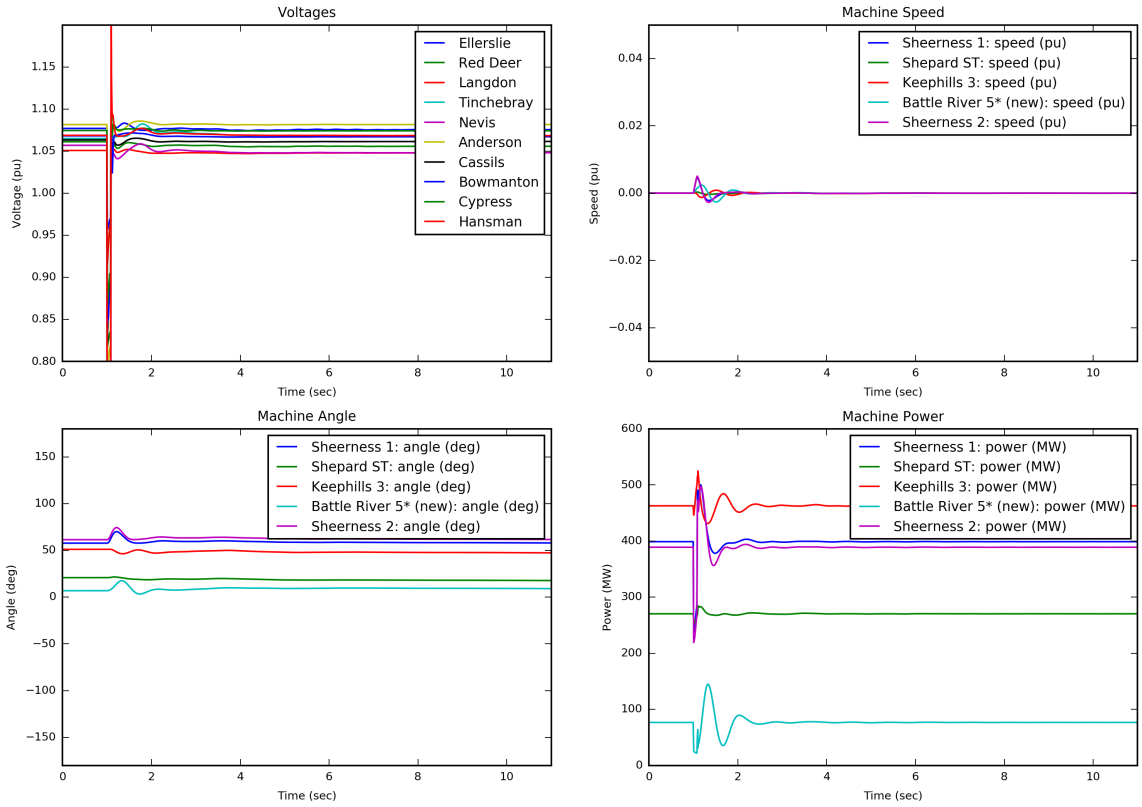
— T = 1.0020 s: Applied 3-ph fault on CETO1 (Gaetz - Tinchebray) near Gaetz

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped CETO1 (Gaetz - Tinchebray)

— T = 1.1010 s: Fault is cleared

Figure 162



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

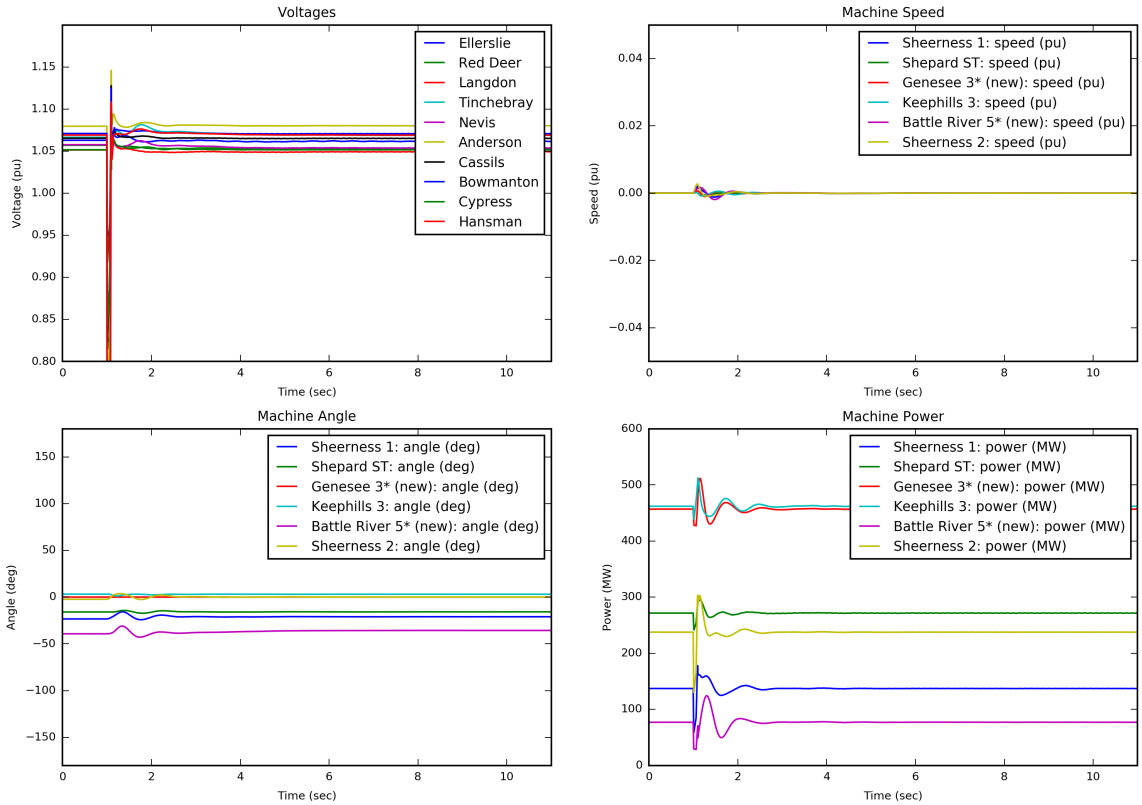
— T = 1.0020 s: Applied 3-ph fault on CETO1 (Gaetz - Tinchebray) near Gaetz

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped CETO1 (Gaetz - Tinchebray)

— T = 1.1010 s: Fault is cleared

Figure 163



Case Description

— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

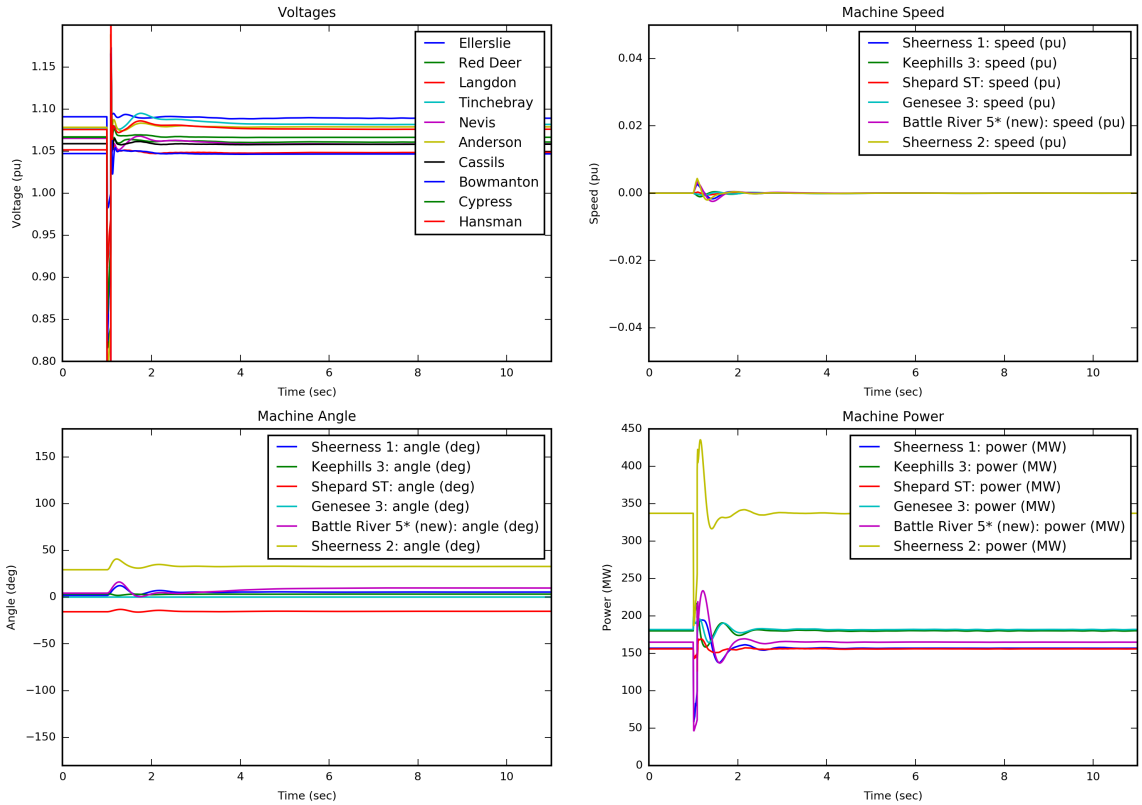
— T = 1.0020 s: Applied 3-ph fault on CETO1 (Gaetz - Tinchebray) near Gaetz

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped CETO1 (Gaetz - Tinchebray)

— T = 1.1010 s: Fault is cleared

Figure 164



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

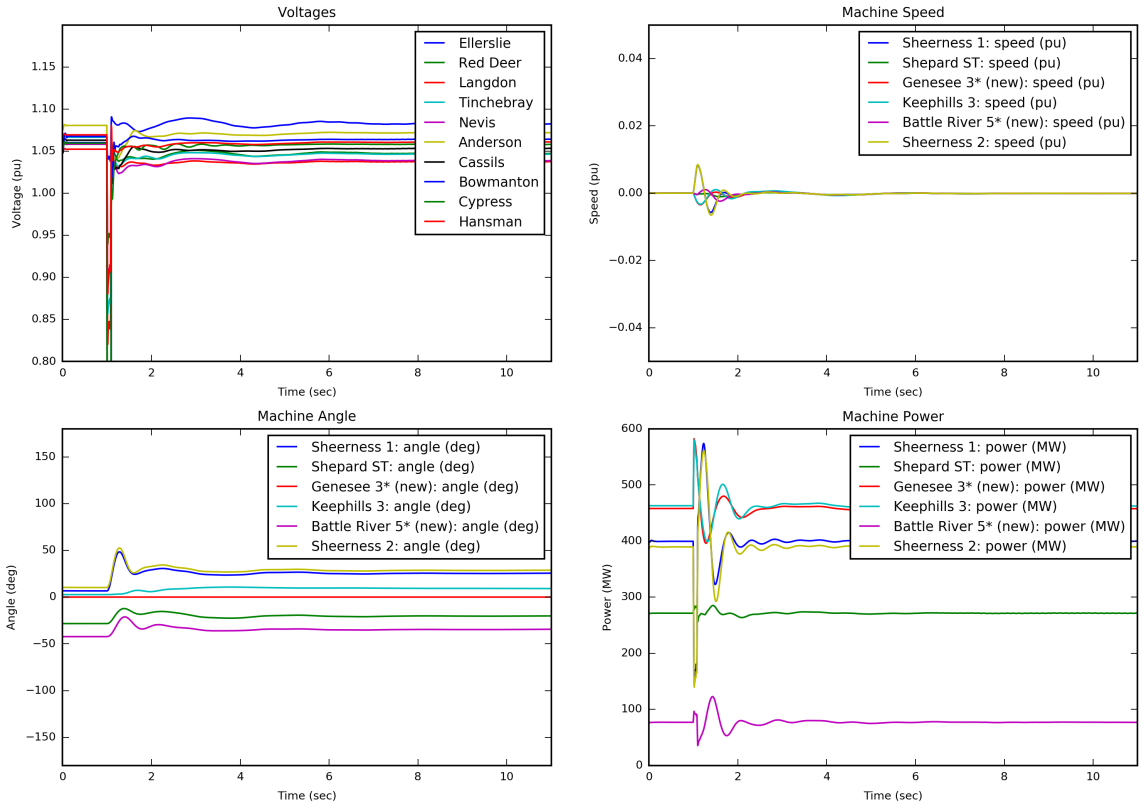
— T = 1.0020 s: Applied 3-ph fault on CETO1 (Gaetz - Tinchebray) near Gaetz

— T = 1.0860 s: Opened near end breaker

— T = 1.1010 s: Tripped CETO1 (Gaetz - Tinchebray)

— T = 1.1010 s: Fault is cleared

Figure 165



Case Description

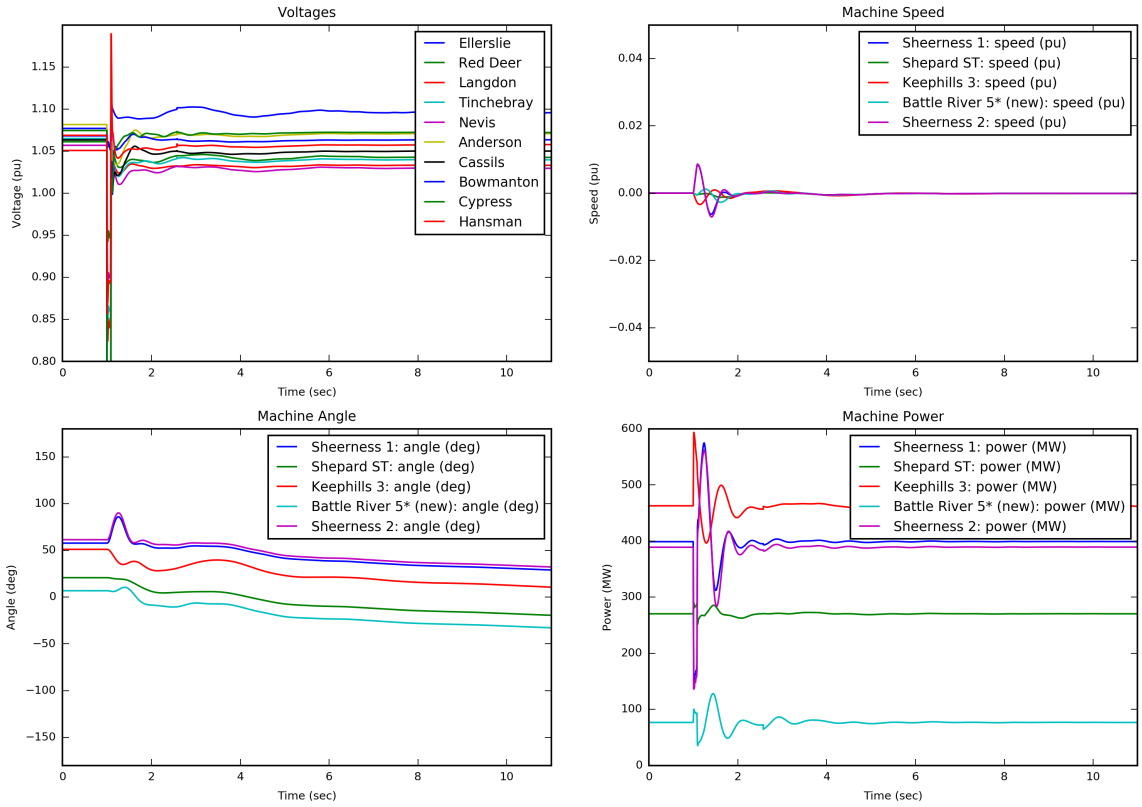
— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

— T = 1.0020 s: Applied 3-ph fault at Newell

— T = 1.0860 s: Blocked EATL

Figure 166



Case Description

— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

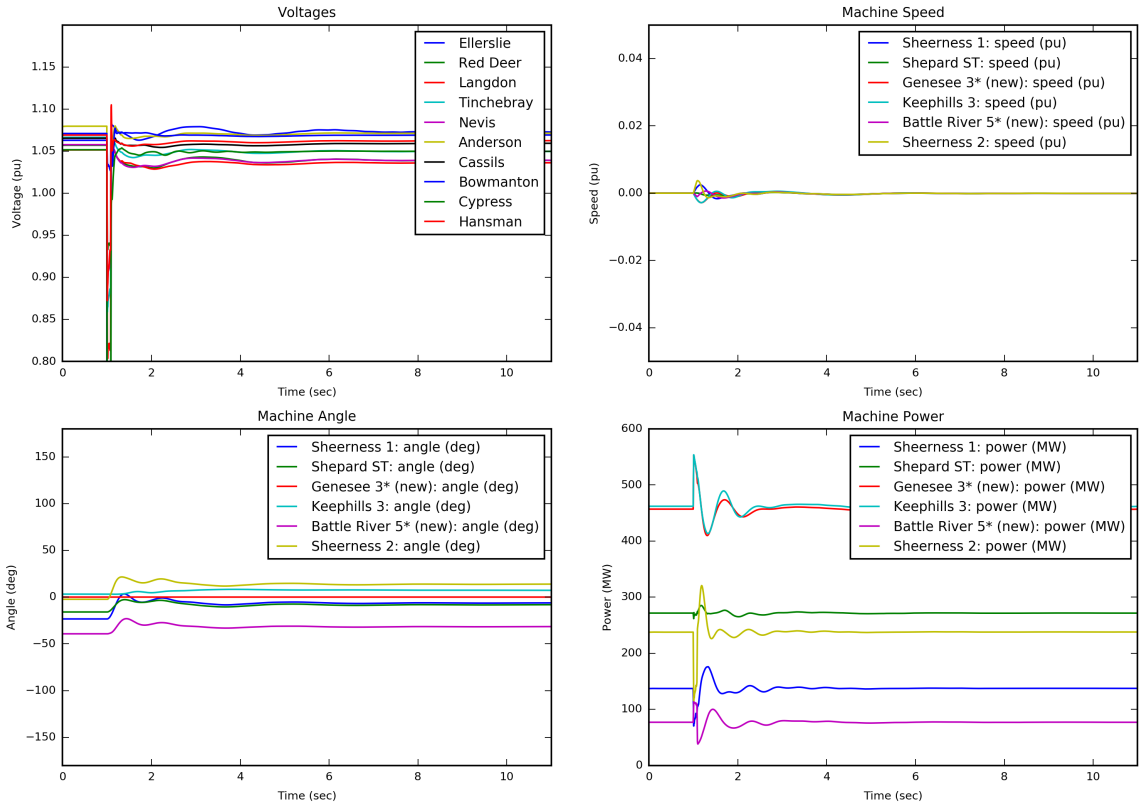
— T = 1.0020 s: Applied 3-ph fault at Newell

— T = 1.0860 s: Blocked EATL

— T = 2.5740 s: 174L thermal RAS activated

— T = 2.5740 s: Tripped 174L

Figure 167



Case Description

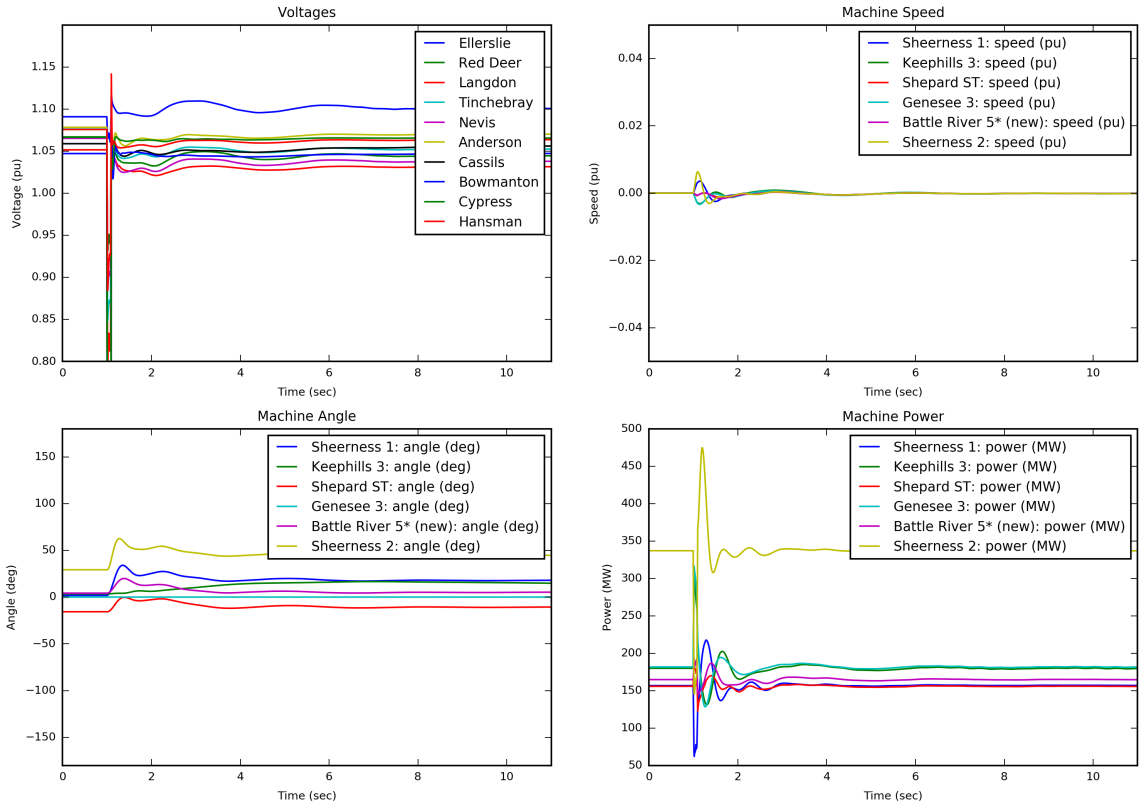
— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

— T = 1.0020 s: Applied 3-ph fault at Newell

— T = 1.0860 s: Blocked EATL

Figure 168



Case Description

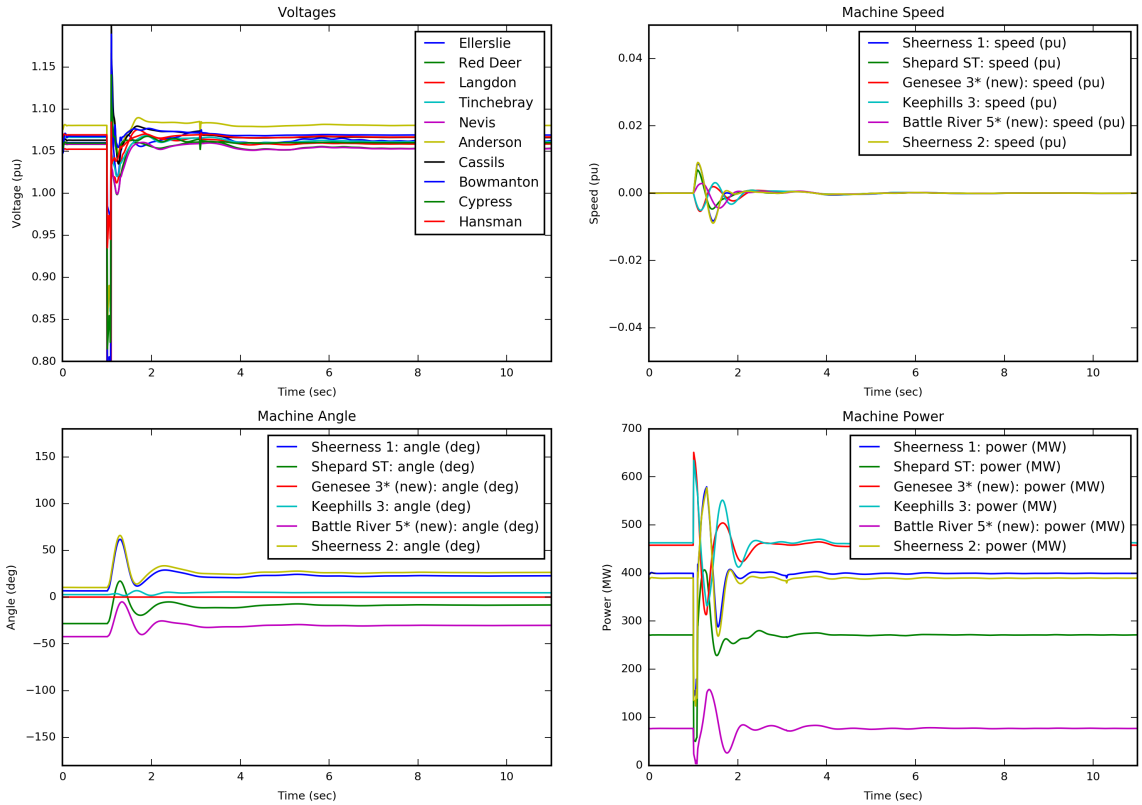
— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

— T = 1.0020 s: Applied 3-ph fault at Newell

— T = 1.0860 s: Blocked EATL

Figure 169



Case Description

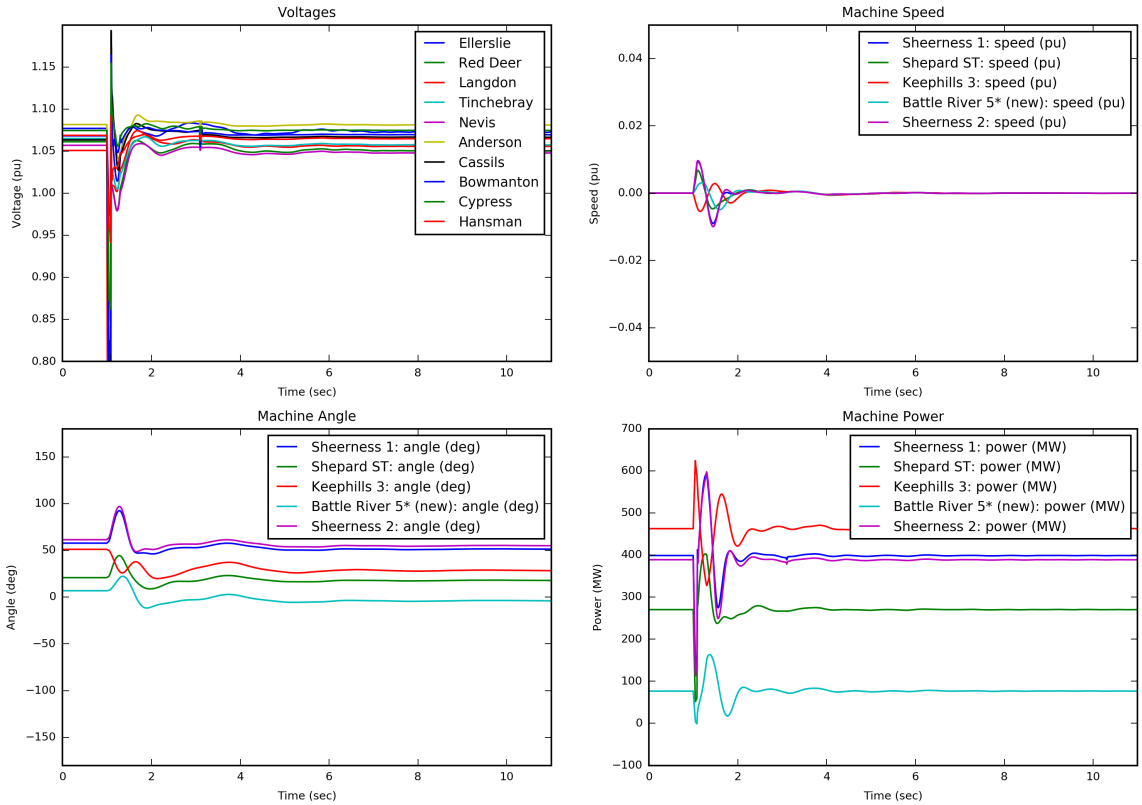
— Study case: 2023 H4; CRPC and CETO Circuits

Event Description

— T = 1.0020 s: Applied 3-ph fault at Crossings

— T = 1.0860 s: Blocked WATL

Figure 170



Case Description

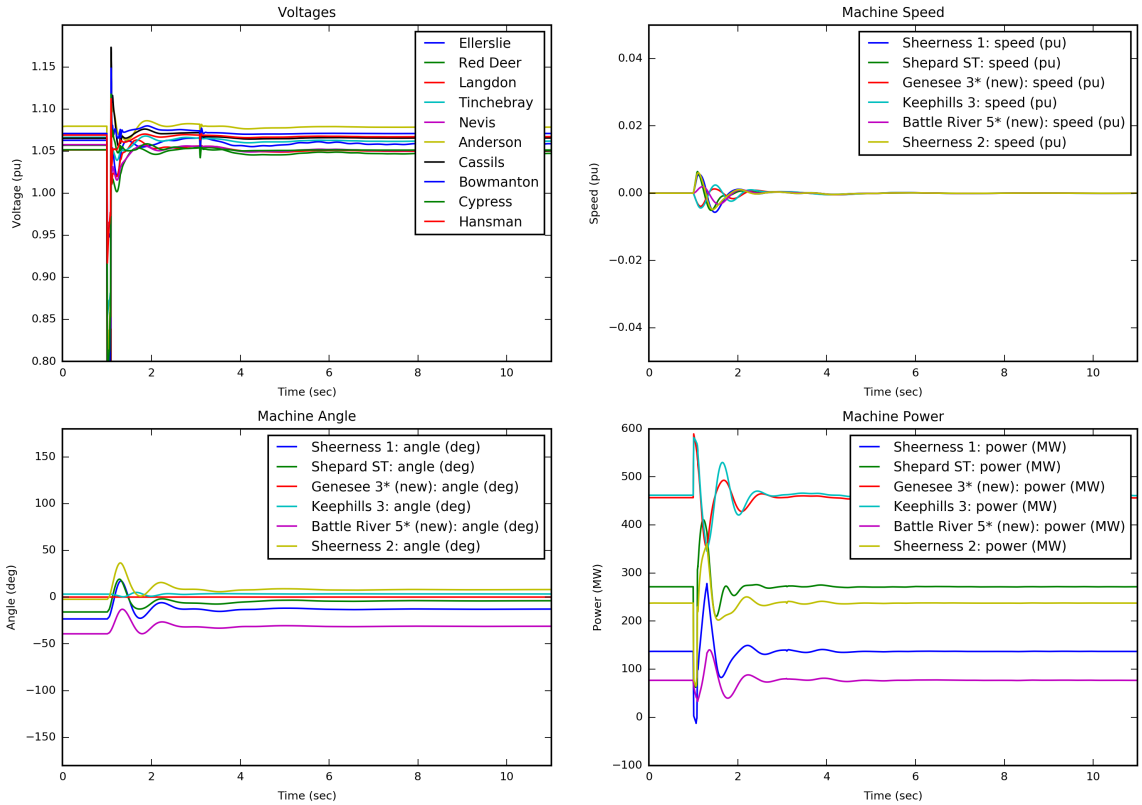
— Study case: 2023 H7; CRPC and CETO Circuits

Event Description

— T = 1.0020 s: Applied 3-ph fault at Crossings

— T = 1.0860 s: Blocked WATL

Figure 171



Case Description

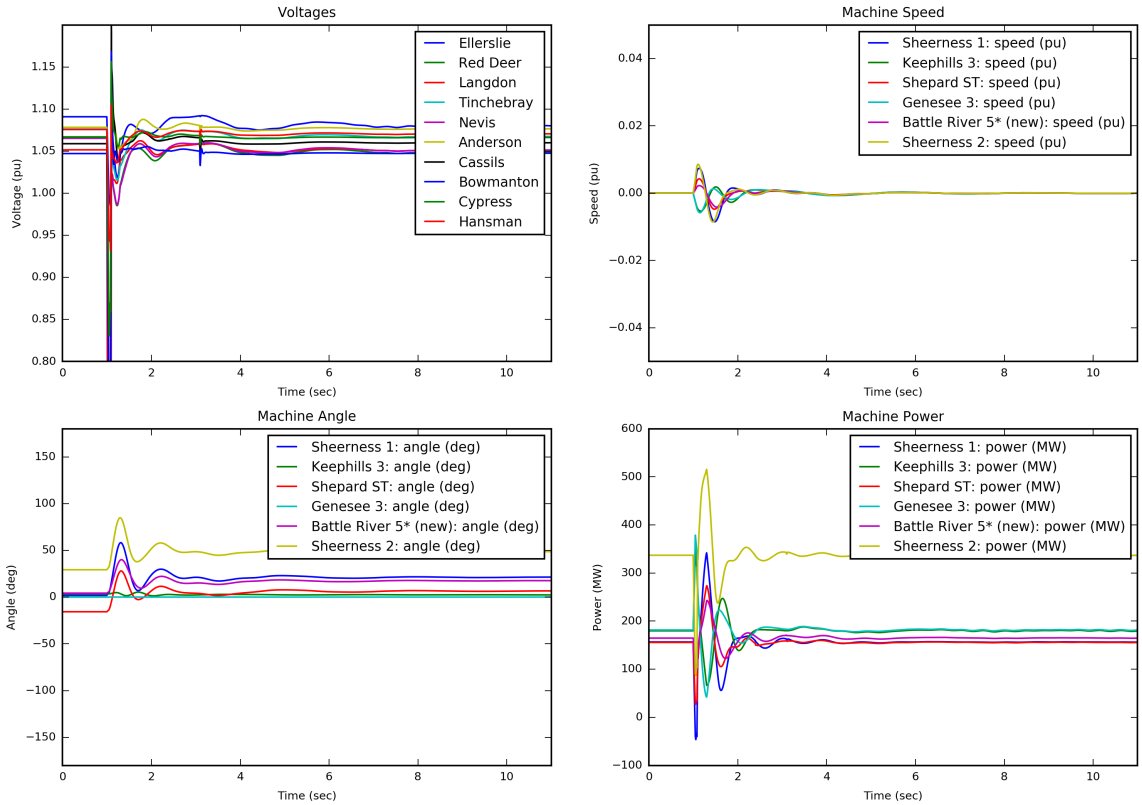
— Study case: 2023 H6; CRPC and CETO Circuits

Event Description

— T = 1.0020 s: Applied 3-ph fault at Crossings

— T = 1.0860 s: Blocked WATL

Figure 172



Case Description

— Study case: 2023 H3; CRPC and CETO Circuits

Event Description

— T = 1.0020 s: Applied 3-ph fault at Crossings

— T = 1.0860 s: Blocked WATL

— T = 2.3970 s: 916L thermal RAS activated

— T = 2.3970 s: Split Sarcee bus