

Target

HAI

Scenario

Description

Controller

Variable

Point

20.07

21.03

22.04

23.05

and restores to normal. Repeat several times

while hiding SP changes in HMI.

Long-term (LT) attack that decrease or

P1_PP04_S

AP25

P1-CC

SP1-LT

increase SP value of P1-CC continuously for

P

more than 10 minutes and restores to normal.

P2_AutoSD

Decrease or increase SP value of P2-SC.

AP26

P2-SC

SP1

Restore as a form of a trapezoidal profile while

(P2_SD01)

hiding SP changes in HMI.

Decrease or increase SP value of P2-SC.

P2_AutoSD

SP1

Restore as a form of a trapezoidal profile while

(P2_SD01)

AP27

P2-SC

hiding SP changes in HMI.

PV1

P2_SIT01

Attempt to maintain previous sensor value.

Decrease or increase SP value of P2-SC.

P2_ManualS

AP28

P2-SC

SP2

Restore as a form of a trapezoidal profile while

D

hiding SP changes in HMI.

Decrease or increase CV value of P2-SC.

AP29

P2-SC

CV1

P2_SCO

Restore to normal.

Decrease or increase CV value of P2-SC.

CV1

P2_SCO

Restore to normal.

AP30

P2-SC

PV1

P2_SIT01

Attempt to maintain previous sensor value.

Short-term (ST) attack that decrease or

increase CV value of P2-SC for a few seconds

AP31

P2-SC

SP1-ST

P2_AutoSD

and restores to normal. Repeat several times

while hiding SP changes in HMI.

Decrease or increase SP value of P2-TC.

AP32

P2-TC

SP1

P2_VTR01

Restore as a form of a trapezoidal profile while

hiding SP changes in HMI.

Decrease or increase SP value of P2-SC.

AP33

P2-TC

SP2

P2_VTR02

Restore as a form of a trapezoidal profile while
hiding SP changes in HMI.

Decrease or increase SP value of P2-SC.

AP34

P2-TC

SP3

P2_RTR

Restore as a form of a trapezoidal profile while
hiding SP changes in HMI.

AP35

P3-LC

CV1

P3_LCP01D

Attempt to repeat previous sensor value.

Decrease or increase CV value of P3-LC.

CV1

P3_LCP01D

Restore to normal.

AP36

P3-LC

PV1

P3_LIT01

Attempt to maintain previous sensor value.

Decrease or increase CV value of P3-LC.

AP37

P3-LC

CV2

P3_LCV01D

Restore to normal.

Decrease or increase CV value of P3-LC.

CV2

P3_LCV01D

Restore to normal.

AP38

P3-LC

PV1

P3_LIT01

Attempt to maintain previous sensor value.

Long-term (LT) attack that decrease or

AP39

P3-LC

CV2-LT

P3_LCV01D

increase CV value of P3-LC continuously for
more than 10 minutes and restores to normal.

Long-term (LT) attack that decrease or

AP40

P1-PC

SP1-LT

P1_B2016

increase SP value of P1-PC continuously for
more than 10 minutes and restores to normal.

27