Target
HAI
Scenario
Description
Controller
Variable
Point
20.07
21.03
22.04
23.05
Decrease or increase SP value of P1-FC.
SP1
P1_B3005
Restore as a form of a trapezoidal profile while
hiding SP changes in HMI
AP10
P1-FC
PV1
P1 FT03
Attempt to maintain previous sensor value.
PV2
P1 LITO1
Attempt to maintain previous sensor value.
Decrease or increase CV value of P1-FC.
AP11

P1-FC
CV1
P1_FCV03D
Restore in form of trapezoidal profile.
Decrease or increase CV value of P1-FC.
CV1
P1_FCV03D
Restore to normal.
AP12
P1-FC
PV1
P1_FT03
Attempt to maintain previous sensor value.
Short-term (ST) attack that decrease or
increase CV value of P1-FC for a few seconds
AP13
P1-FC
CV1-ST
P1 FCV03D
and restores to normal. Repeat several times
while hiding SP changes in HMI.
Decrease or increase SP value of P1-LC.
AP14
P1-LC
SP1
P1_B3004

Restore as a form of a trapezoidal profile while
hiding SP changes in HMI.
Decrease or increase SP value of P1-LC.
SP1
P1_B3004
Restore as a form of a trapezoidal profile while
AP15
P1-LC
hiding SP changes in HMI.
PV1
P1_LIT01
Attempt to repeat previous sensor value.
Decrease or increase CV value of P1-LC.
AP16
P1-LC
CV1
P1_LCV01D
Restore to normal.
Decrease or increase CV value of P1-LC.
CV1
P1_LCV01D
Restore to normal.
AP17
P1-LC
PV1
P1_LIT01

Attempt to repeat previous sensor value.
Short-term (ST) attack that decrease or
increase CV value of P1-LC for a few seconds
AP18
P1-LC
CV1-ST
P1_LCV01D
and restores to normal. Repeat several times
while hiding SP changes in HMI.
Decrease or increase CV value of P1-TC.
AP19
P1-TC
CV1
P1_FCV01D
Restore to normal.
Decrease or increase CV value of P1-TC.
CV1
P1_FCV01D
Restore to normal.
AP20
P1-TC
PV1
P1_TIT01
Attempt to repeat previous sensor value.
Short-term (ST) attack that decrease or
increase CV value of P1-TC for a few seconds

AP21
P1-TC
CV1-ST
P1_FCV01D
and restores to normal. Repeat several times
while hiding SP changes in HMI.
Long-term (LT) attack that decrease or
AP22
P1-TC
SP1-LT
P1_B4002
increase SP value of P1-TC continuously for
more than 10 minutes and restores to normal.
Decrease or increase CV value of P1-CC.
AP23
P1-CC
CV1
P1_PP04
Restore to normal.
Short-term (ST) attack that decrease or
AP24
P1-CC
CV1-ST
P1_PP04
increase CV value of P1-CC for a few seconds