The Result of all Tests:

06/23/23 11:41:20

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Test: Preal Ramp Rate

These are the parameters of the test

test parameters:

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1. Permanent Values:

RampRate = 1 %

& does not change during the test

2. Initial Conditions:

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time_limit = not time restrictions

Station01InputMapping.Station01PlantPrealSpt = 10

PlantRealPower.PlantLevelPrealSetpoints.PrealAutoSpt = 10

InputConditioning.FeedbackCore_POI[PPCPersistentVariables.POIMeterInUse].PrealFbk =

between 10 & 10.1

** Note:

InputConditioning.FeedbackCore_POI[PPCPersistentVariables.POIMeterInUse].PrealFbk

needs to be stabilized for

10000 ms

in order for the test to continue

3. Changing Conditions:

Station01InputMapping.Station01PlantPrealSpt = 15

Time allowed for

PlantRealPower.PlantLevelPrealSetpoints.PrealAutoSpt

to reach between 14.5 & 15.5 is:

5000 ms

Enough time is provided for

InputConditioning.FeedbackCore_POI[PPCPersistentVariables.POIMeterInUse].PrealFbk

to reach value below (variable not tested):

InputConditioning.FeedbackCore_POI[PPCPersistentVariables.POIMeterInUse].PrealFbk =

between 14.9 & 15.1
Note:
InputConditioning.FeedbackCore_POI[PPCPersistentVariables.POIMeterInUse].PrealFbk
needs to be stabilized for 10000 ms
in order for the test to continue
4. Final Conditions:

Station01InputMapping.Station01PlantPrealSpt = 0
Time allowed for
PlantRealPower.PlantLevelPrealSetpoints.PrealAutoSpt
to reach between -0.5 & 0.5 is:
15000 ms
** Note:
At this point the value of the
InputConditioning.FeedbackCore_POI[PPCPersistentVariables.POIMeterInUse].PrealFbk
is irrelevant for the test

`time logs for the Preal Ramp test`

time to ramp up & down

Operation 'RampTime' : start time 10:38:18 AM, end time 10:38:22 AM, duration 00:00:04.7462084

Operation 'RampTime' : start time 10:39:19 AM, end time 10:39:34 AM, duration 00:00:14.5778069

plot of the results