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PlantScape Controller Implementation

Lesson 4

Capturing History Values

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Notes

Introduction

The purpose of this Lesson is to give you the knowledge to be able to configure History values. Upon completion of this Lesson you will have configured the History values and set up a step to record the values.

Objectives

❶ Configure the History tab

❷ Configure a Step to record History values

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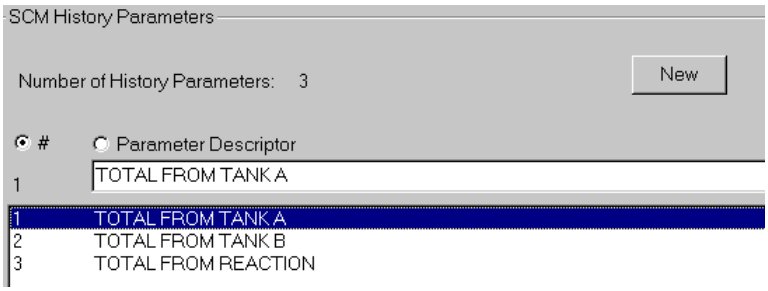
➢Capturing History Values

- Open the **SCM#_REACTR**
- Double Click on unoccupied area to open the Parameter Configuration form, and select the **History** Tab
- In the Parameter Descriptor box enter the 3 following **History** settings
  - –**1 TOTAL FROM TANK A**
  - –**2 TOTAL FROM TANK B**
  - –**3 TOTAL FROM REACTION**

  (You must Right Click to add a new history parameter)
- Click **OK**



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Notes

Configuring The History Tab

In configuring the History Tab all you are doing is assigning names to the different history parameters. The real functionality comes in when you configure a step to actually record the values.

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➢Adding and Configuring a Step (to record amounts)

- Scroll down in the **REACTR_SCM** to a fresh screen
- Drag and drop a Step from the **Library** tab into the SCM control drawing and position it under the **WAIT_DRAIN** Transition

Tab	Name		Description	
Main	**RECORD_AMOUNTS**		**RECORD AMOUNTS**	
	Wait Time	**0**	Active Time	**240**
	Description		Output Expression	
Out #1	**RECORD A TOTAL**		**SCM#_REACTR.HISTVALUE[1] := CM#_ACCA.TOTAL_A.PV**	
Out #2	**RECORD B TOTAL**		**SCM#_REACTR.HISTVALUE[2] := CM#_ACCA.TOTAL_B.PV**	
Out #3	**RECORD REACTION TOTAL**		**SCM#_REACTR.HISTVALUE[3] := CM#_ACCA.TOTAL_REACTR.PV**	
Out #4	**CLOSE CM#_FV103**		**CM#_FV103.DEVCTLA.GOP := 4**	

- Click **OK**
- Wire the **WAIT_DRAIN Transition** to the **RECORD_AMOUNTS Step**
- Save changes to **REACTR_SCM**

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Notes

Recording Amounts Through a Step

In order for an SCM to record history values, you must configure step outputs to record the amounts into the history values.

Here we are setting SCM#_REACTR History Value 1 equal to the total of ingredient A, as recorded by the Ingredient A totalizer. We are setting History Value 2 equal to the Ingredient B total, and History Value 3 equal to the product total.

Note: The values are overwritten each time SCM#_REACTR is executed

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This completes….

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