

Lab Exercise – Building the Class Project

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This module supports **TotalPlant** Solution (TPS) system network.

TPS is the evolution of TDC 3000^X.

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Lab Exercise

Objectives

After completing your class project, you will be able to:

- Complete a display that represents a process
- Be able to manipulate and control the simulated process
- Add the following to your display: a change zone, faceplate or a pop-up dialog, a trend, and embedded displays
- Be able to modify the background and static objects to match your required conventions for graphic display building

Prerequisites

Before you begin this lab exercise make sure that the following are met:

1. Must have the Native Window loaded on the Global User Station.
2. Must have the Display Builder running.
3. The HOPC status indicator must be green indicating that a valid connection has been made.
4. Have a student folder called **Library** on your hard drive.

Lab Exercise

CONSTRUCTION of Class Project

Introduction

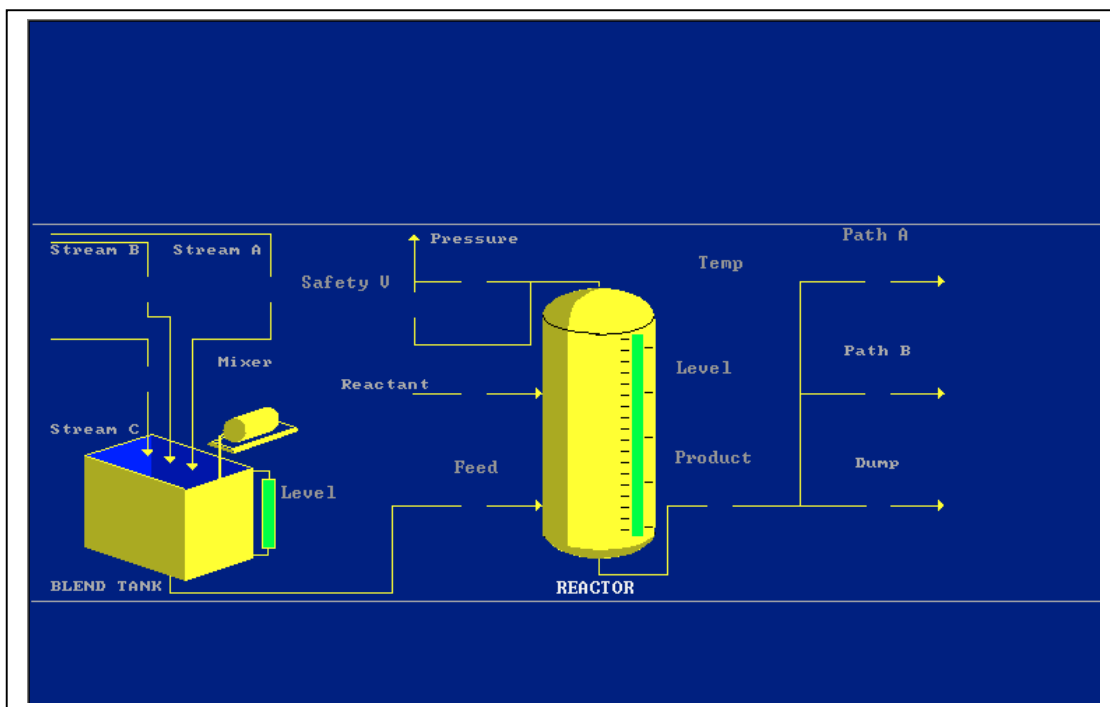
To complete your class project you will have to create and/or insert the following:

1. A trend.
2. A change zone, faceplate or pop-up dialog.
3. Embedded display for a regulatory valve and for a block valve.

Following this section on the “Class Project Introduction” there are lab exercises that will assist you in completing each of the above requirements.

Instructions for Building

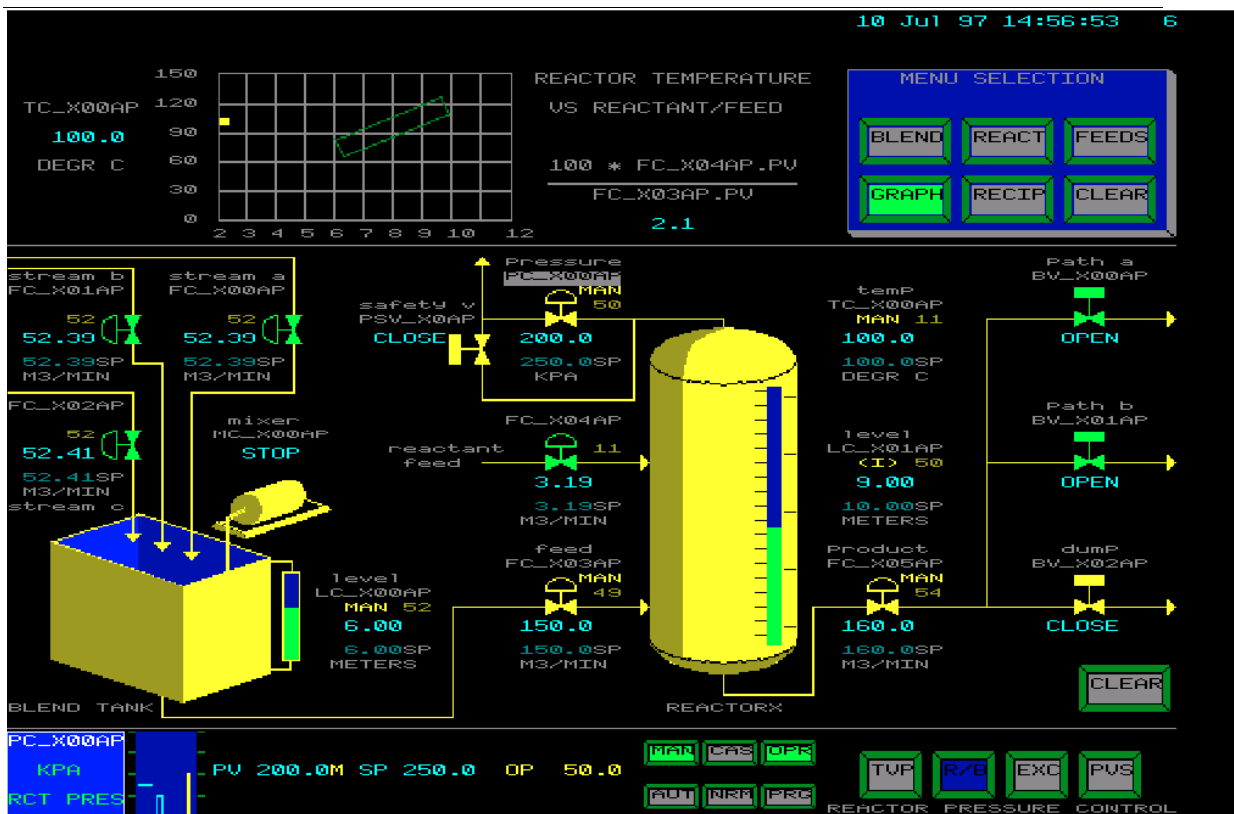
1. In your **Library Folder** is a display called **Reactor** that looks similar to the following. Open the display and save it as Reactor.pct in your student folder.



2. At this time, modify your display according to the design conventions you have chosen for building graphics.
3. In a later lab exercise, you will place a trend either at the top of your display or create a menu item (target) to invoke your trend into another window.
4. A lab exercise on the following pages covers the use of change zones. Your change zone (either the standard or user-created custom change zone) should be positioned at the bottom of the display. In a later lab you will be introduced to a pop-up dialog for digital control. If you decide to use this pop-up dialog for your digital composite points, position it accordingly.
5. You can use an LCN schematic "React###" (located on the LCN and pictured below) as a guide to insert embedded displays into your Class Project.
6. After each lab exercise, validate and run your display. It is good practice to save your display often, as well as periodically doing

a “Save as”, thereby creating a backup copy should something happen to your original project.

LCN Schematic



End of Lab 11

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