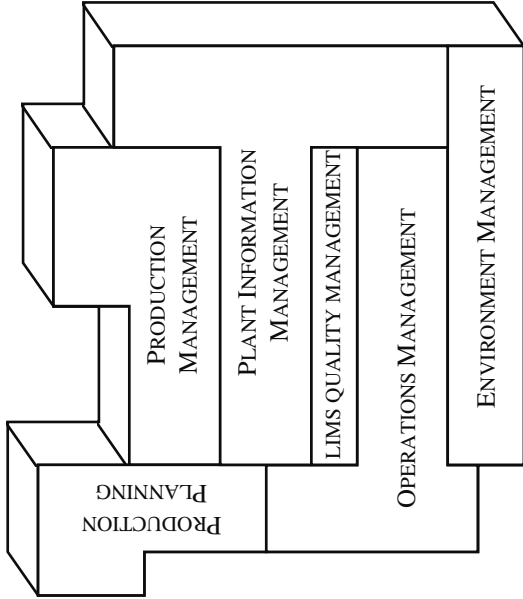


Uniformance Desktop

Process Trend



Lesson Objective

Objective

Build and operate plots using the Uniformance Desktop Process Trend.

Topics

- Features
- Display Format and Tools
- Tag Explorer and Favorite Tags
- Retrieval Options
- Callup Methods
- Login
- Software Components
- Hands-on Exercise

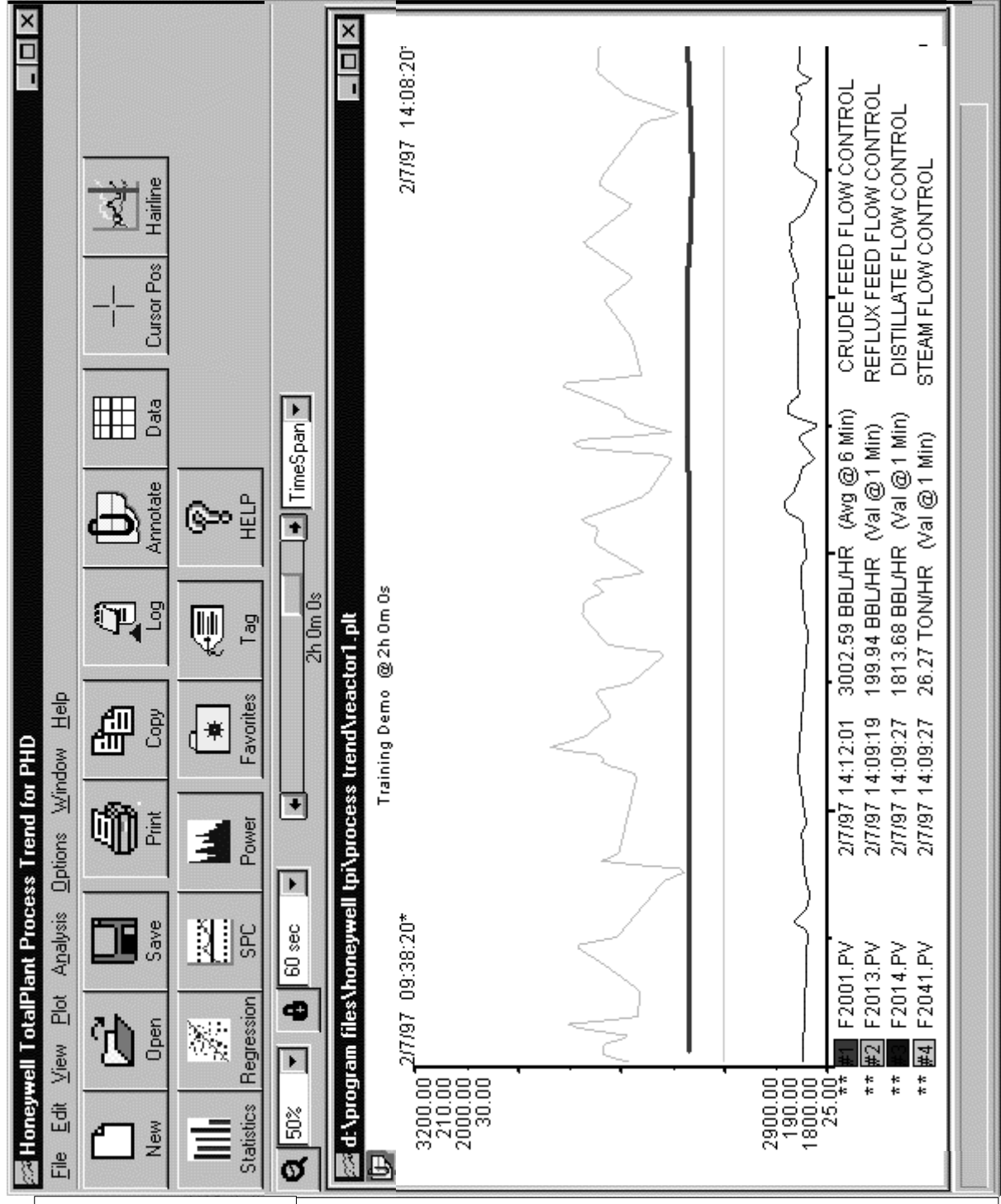
Process Trend Features

Trend and analysis tool for a PC

Designed to support engineering personnel

Features:

- Zoom
- Slider Control
- Hairline Cursor
- Time Offset
- Auto Scale
- Conditional Search
- Export Data



Basic and Advanced Modes

- There are Basic and Advanced versions of the *Plot Tag Definition* dialog (see below)
 - Using the Basic dialog, users can create their first trend without documentation.
 - Process Trend defaults to the Basic dialog, supporting many trending needs.



Basic dialog

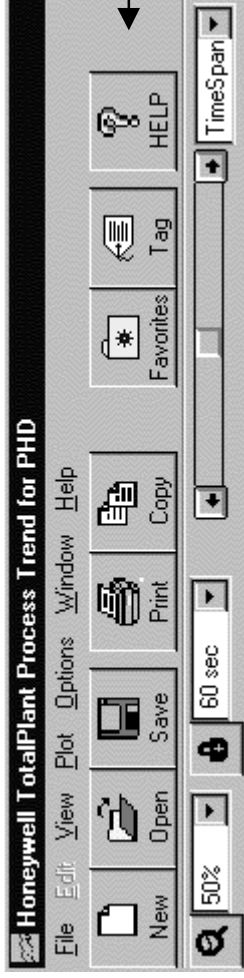


Advanced dialog

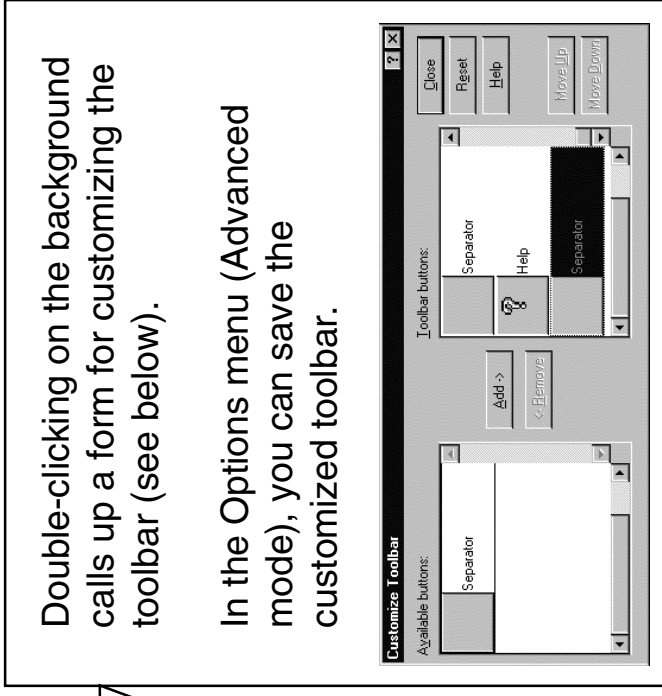
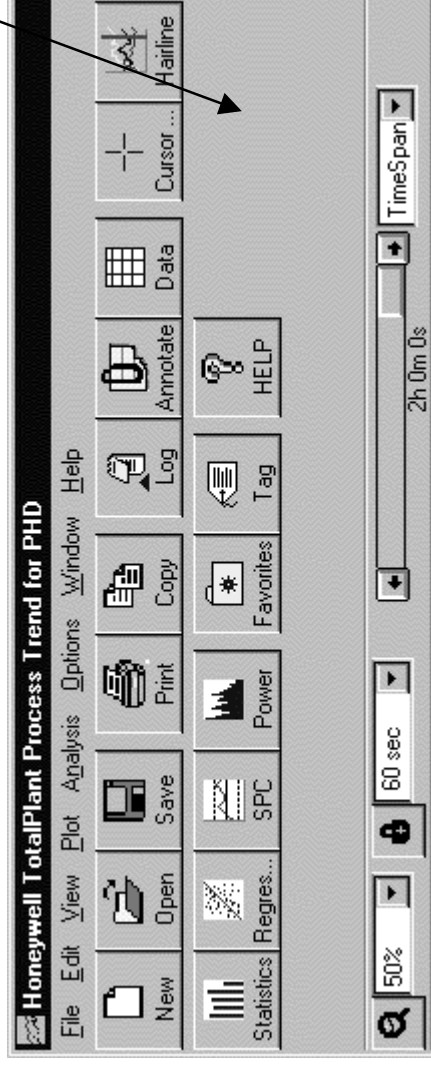
Basic and Advanced Modes, continued

- There are Basic and Advanced versions of the Process Trend *Toolbar and Pulldown Menus* (select View/Basic Trend or View/Advanced Trend).
 - Process Trend defaults to Basic Trend, supporting most trending needs.
 - The selection of Basic or Advanced Trend is saved with the plot file.

Basic Trend Toolbar



Advanced Trend Toolbar



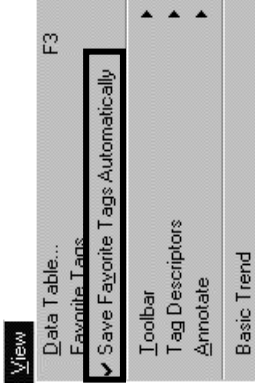
Double-clicking on the background calls up a form for customizing the toolbar (see below).

In the Options menu (Advanced mode), you can save the customized toolbar.

Favorite Tags

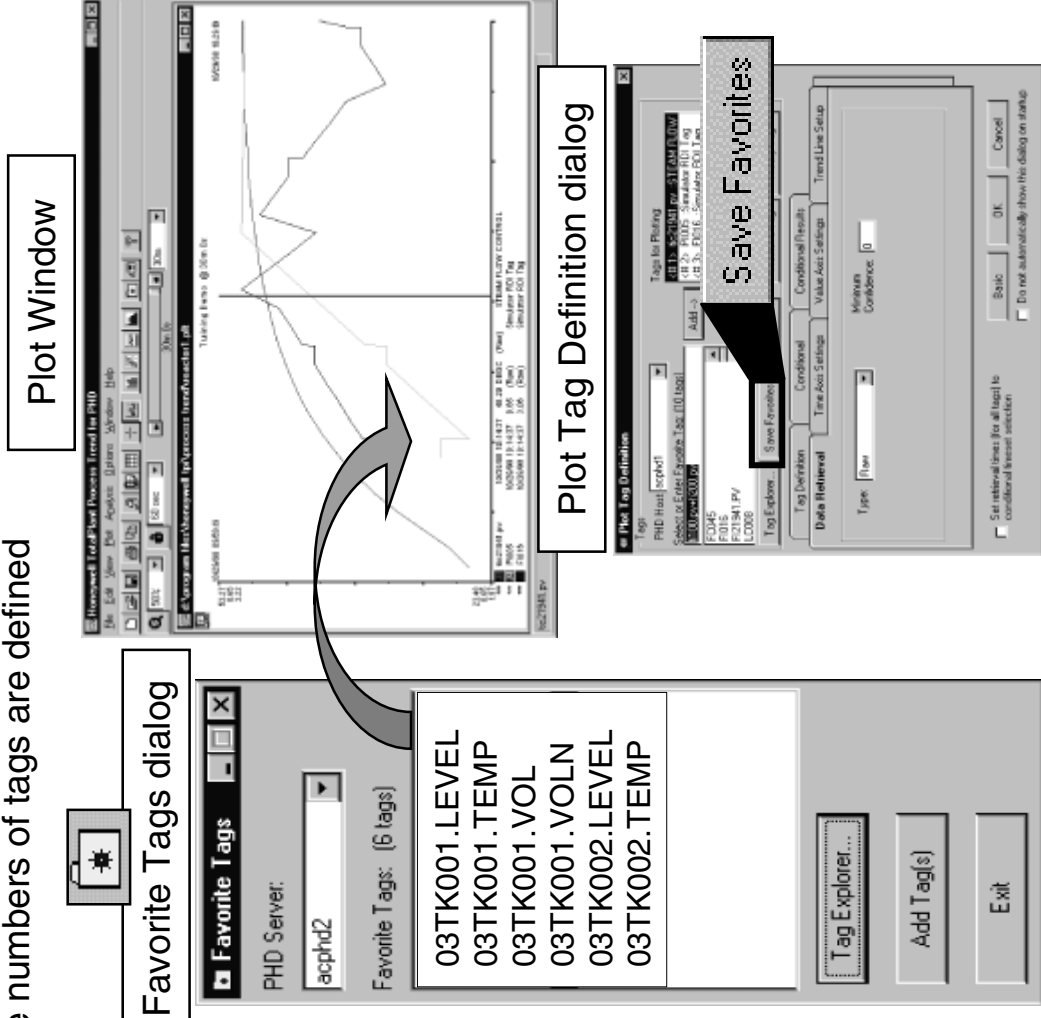
- The Process Trend 'Favorite Tags list' is an easy way to add tags to plot windows.
- By using the Favorite Tags list, the user can bypass using the Tag Explorer application. This is especially useful when large numbers of tags are defined in the PHD Server.
- After the list is created, you can *drag/drop* or *double-click* from the Favorite Tags dialog to add tags to a Plot window.
- You can select one or more tags in the Favorite Tags dialog, then select the Add Tag(s) button to add them to the Plot Window.

- Select the save option shown below and all plotted tags will be added to the Favorite Tags list automatically.



- The Favorite Tags list is held in memory.

The list is saved to a file (trdtags.ini) when you close Process Trend or when you select the Save Favorites button. The file can be used for easy distribution of the Favorite Tags list.



Favorite Tags, continued

- Here are three different ways to add tags to the Favorite Tags list

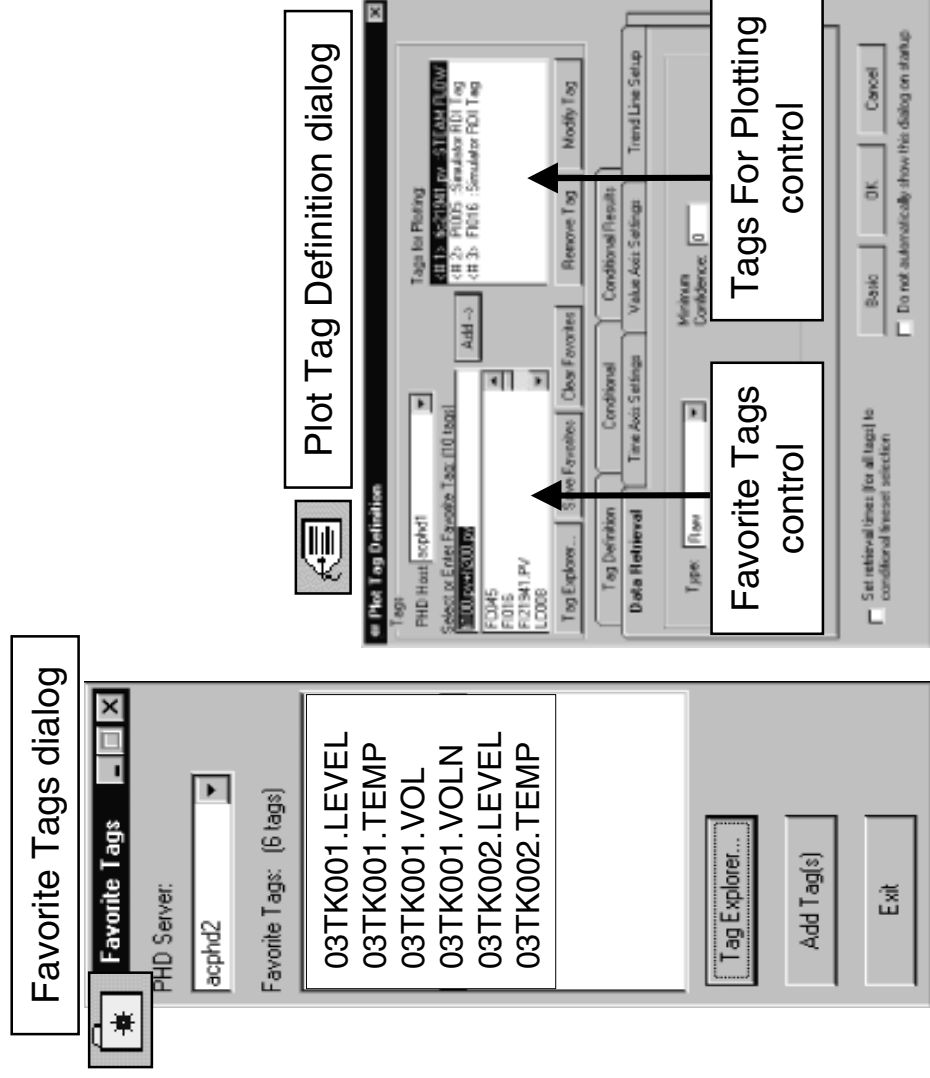
1. Type the tagname directly into the Favorite Tags control, then tab to the next control.
(Whenever the Favorite Tags control loses focus, its new tagname entry is added to the Favorite Tags list.)

OR

2. Drag tags from the Tag Explorer application to the Favorite Tags dialog.

OR

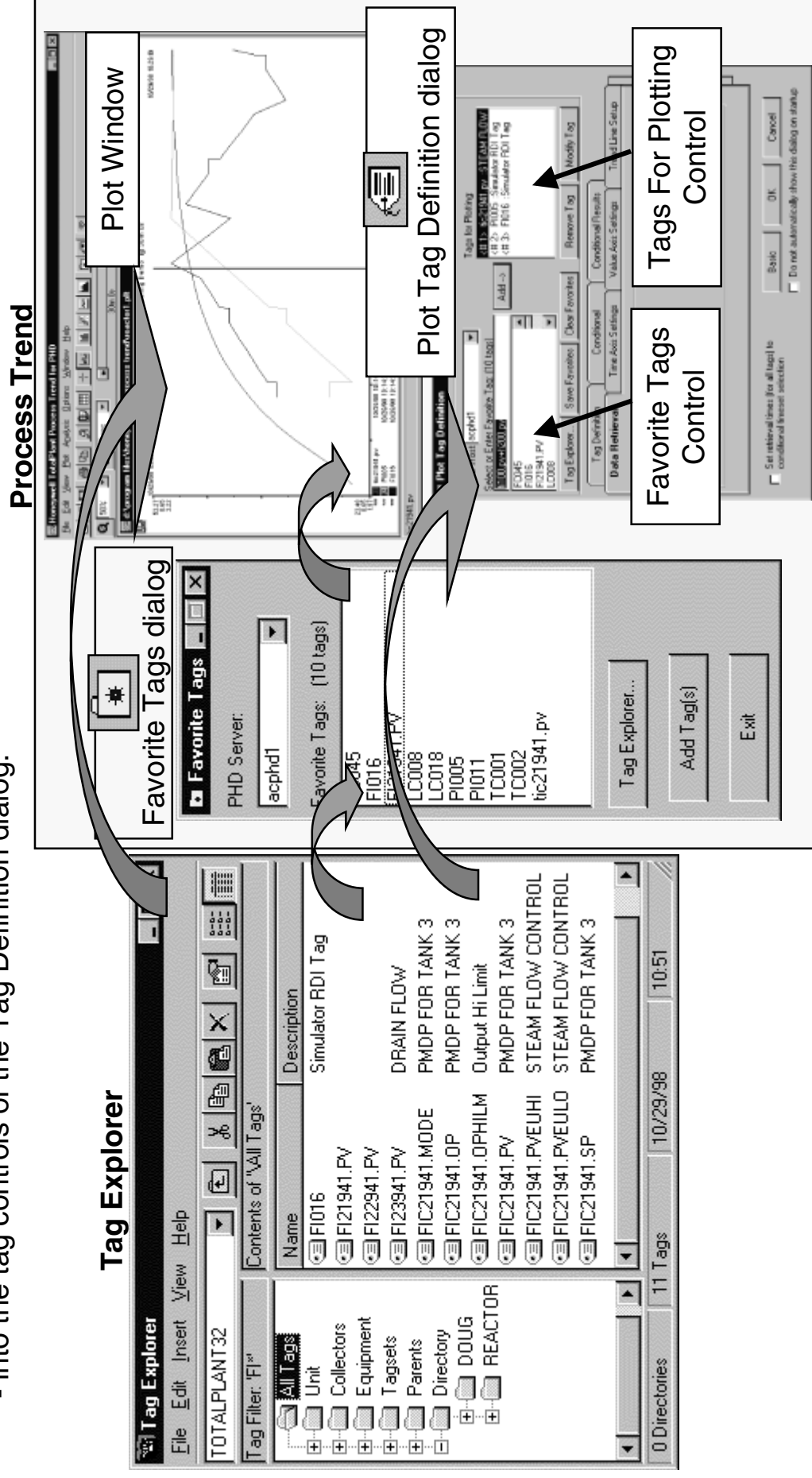
3. Drag tags from the Tag Explorer to the Favorite Tags control.



Tag Explorer

The user can drag and drop tags from Tag Explorer into Process Trend

- directly into a Plot window,
- into the Favorite Tags dialog, or
- into the tag controls of the Tag Definition dialog.



Drag and Drop Tags

From:

Tag Explorer

Favorite Tags dialog

Tag Explorer

Tag Explorer

To:

Plot Window

Plot Window

Favorite Tags dialog or
Favorite Tags control

Tags for Plotting control

Process Trend Callup Methods

- Select the Process Trend icon from the start program icons
- Invoke Process Trend, then use the File/Open menu or the Open icon
- Create shortcuts on the desktop.
- Through Windows Explorer, drag and drop a plot file on the phdtrend.exe
- Associate the process trend file types (.plt and the other analysis file extensions .STS, .SPC, .REG, .FFT, .STE) with the Process Trend application, then if you double click on the trend files (such as *.plt, *.sts), the trend is invoked using the selected file.

Attention: If you double click on a plot file with a long directory/filename in Windows Explorer, Process Trend displays the 8.3 version of the directory/filename in the plot title bar

(Example: c:\temp\just a test\just a test.plt
is displayed as c:\temp\justat~1\justat~1.plt).

This can be fixed by adding quotes to the file association action; that is, change it from

c:\Program Files\Honeywell TPI\Process Trend\phdtrend.exe
to "c:\Program Files\Honeywell TPI\Process Trend\phdtrend.exe"

- Applications can
 - invoke the Process Trend and pass trend input information through a command line interface, or
 - interface with a previously activated Process Trend, passing trend input information using DDE.
- (Refer to the Process Trend Help, Programmatic Interface to Process Trend)

Login

PHD_Host—The PHD server name defined during installation as default PHD host (TCP I/P host name).

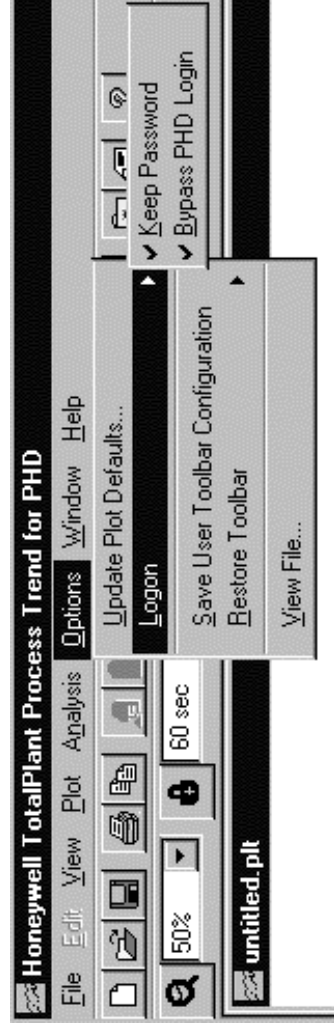
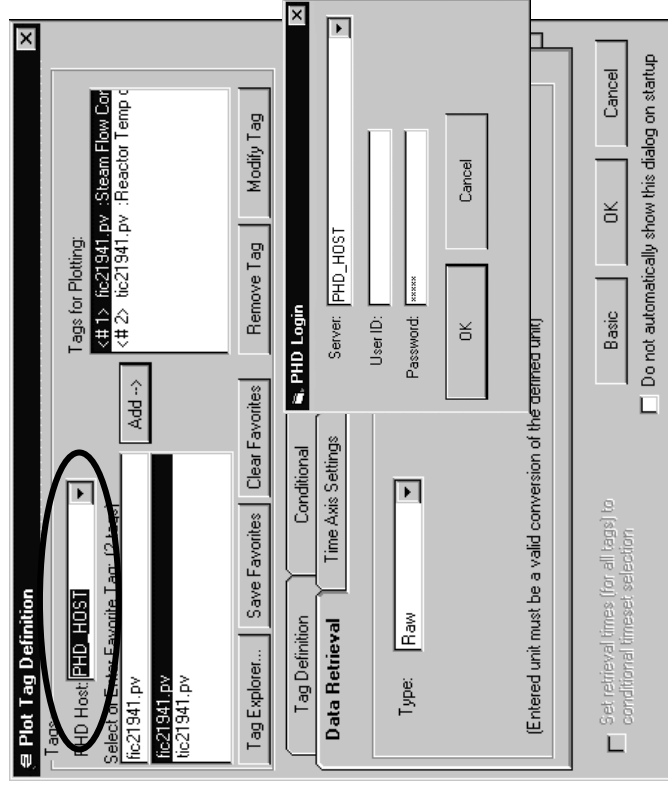
Example: The process engineer's default may be the lower level (main) PHD server. The manager's default may be the higher level (shadow) server.

Users are required to login to the PHD server, except if the option to Bypass PHD Login is selected.

If you select bypass, you will be logged in automatically with a proxy login (if a proxy login was specified in the PHD Server).

To minimize the number of logins (PHD Server and Oracle database), Process Trend passes the user name and password to Oracle.

During a Process Trend work session, the user may login to a different PHD server through File\PHD login.



If you enter blanks and bypass is not implemented, the login defaults to PHD_READONLY/PHD_READONLY.

Login, *continued*

The following PHDMAN command specifies a proxy login user for an operating system domain and user.

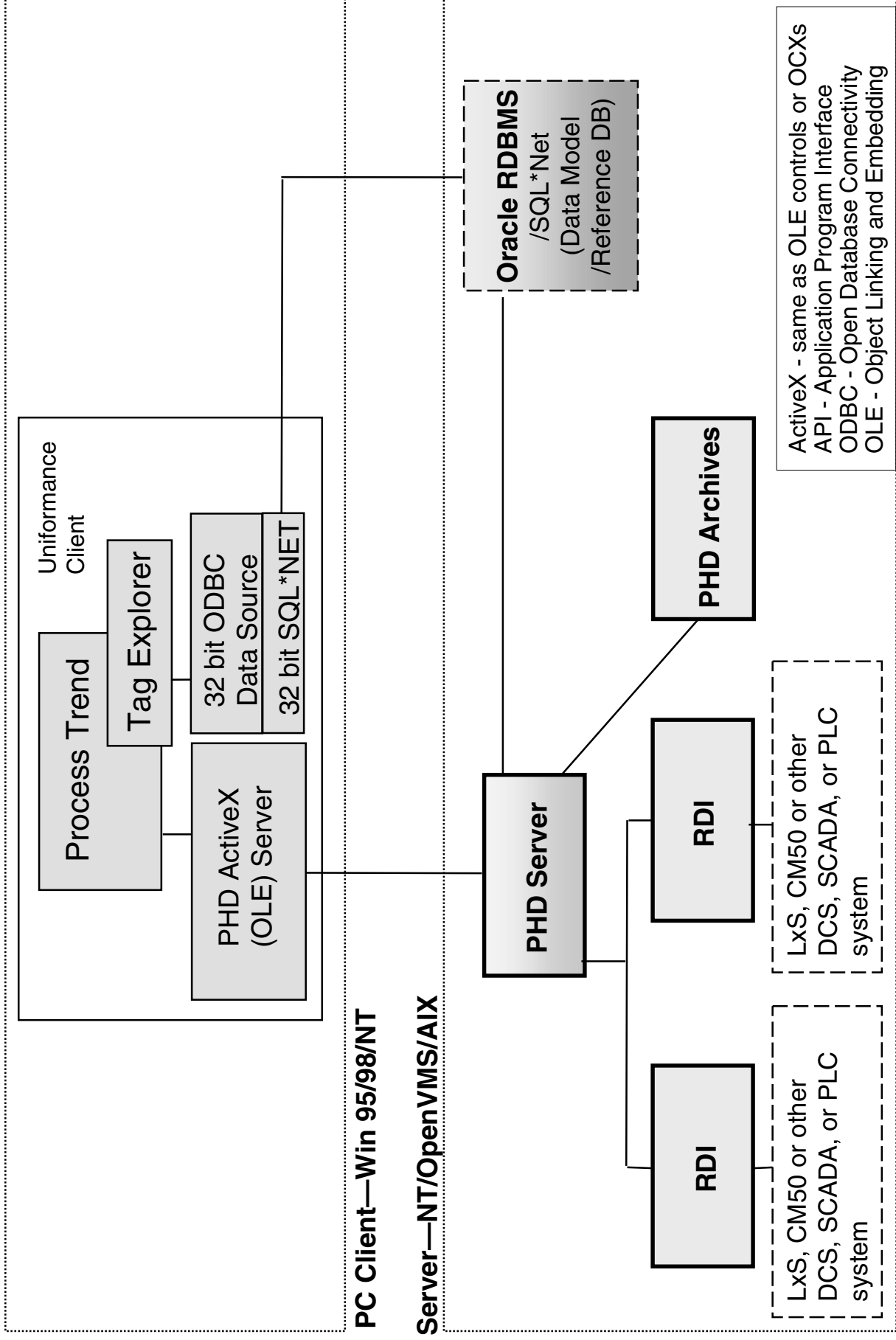
```
PHDMAN> PROXY os_domain os_username phd_username
```

When the specified user performs a proxy login (a login without specifying a username/password), the user will be logged into the PHD system as the specified phd_username.

To remove any previous proxy for a user, do not specify phd_username in the command.

PHD_SECURITY authorization is required to perform the PROXY command.

Process Trend Software Components



Hands-on Exercises

1. Build Plot
2. Annotate, Hairline, Data Table
3. Unlock Trend, Operate Scrollbar
4. Change Trend Scale
5. Zoom, Cursor Crosshair
6. Analysis Plots, Plot Suite
7. Data Retrieval Options, Export Data
8. Calculation Tag
9. Conditional Query
10. Modify Plot
11. Save Password and Bypass Login

Exercise 1—Build Plot

Instructions

Build a 24 hour plot comparing the day before yesterday's reactor temperature to yesterday's reactor temperature.

Overview

If you need more information than is provided below to do the steps, refer to the following pages for more detailed procedures.

- ☐ 1. Add Tags:
 - Add your temperature PV tag *twice* to a Process Trend plot. Use the **Tag Explorer** or enter the tagname directly (TIC21###.PV, where ### is your assigned number).
- ☐ 2. Change X-Axis
 - Change the X-Axis of the tags by entering appropriate start/end times for each tag so you can compare the two previous days.
- ☐ 3. Save Plot:
 - Save the plot as **PLOT1**.

NOTES

1. Asterisks (***) appear beside the date/time indicators in the Plot Window to show that the tags have different time spans.
2. When you set an Absolute-based time, the trend does not update for that tag.

Exercise 1—Build Plot, continued

Detailed Procedure

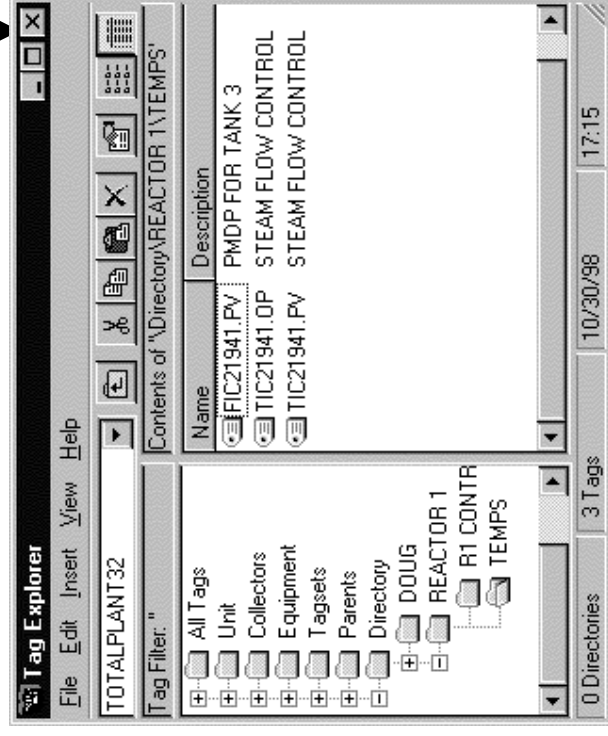
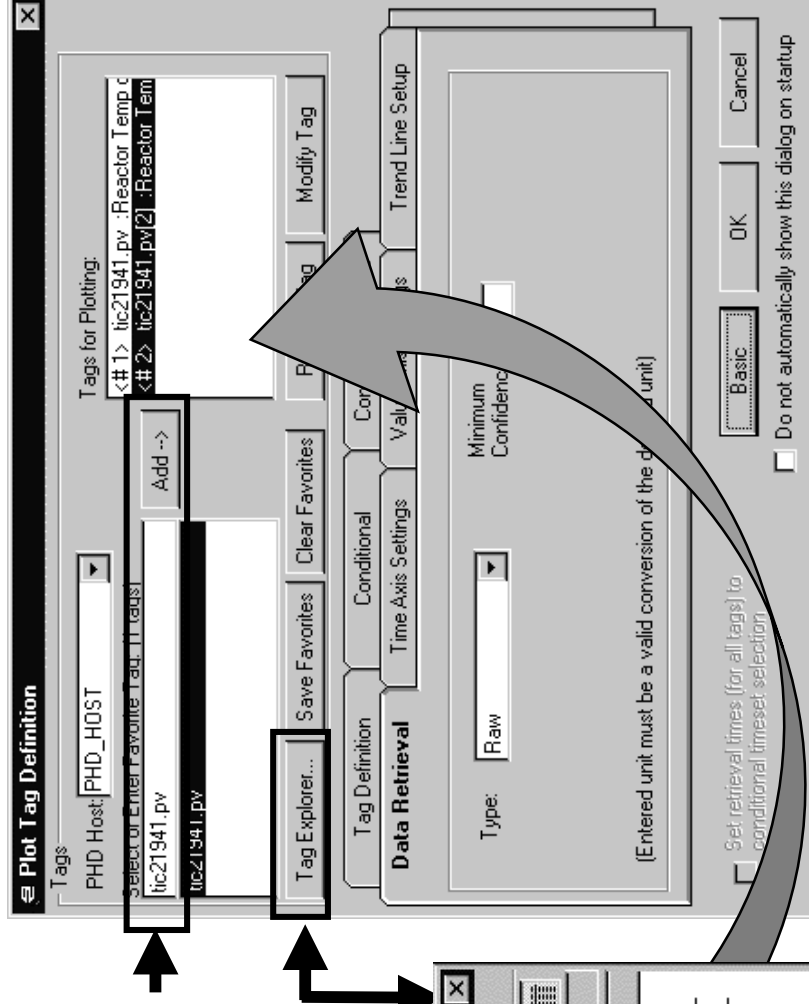
1. **Add Tags** - Add your temperature PV tag twice to a Process Trend plot (TIC21###.PV, where ### is your assigned number):

From the Plot Tag Definition window, use one of the following methods to add tags:

Type the tagname into the port “Select or Enter Favorite Tag”, then select Add, then select OK.

OR

Select Tag Explorer, locate tag, drag/drop the tag onto the Tags for Plotting window, then select OK.



TIP

Configure the Tag Explorer to be ‘Always On Top’ (View), then minimize it.

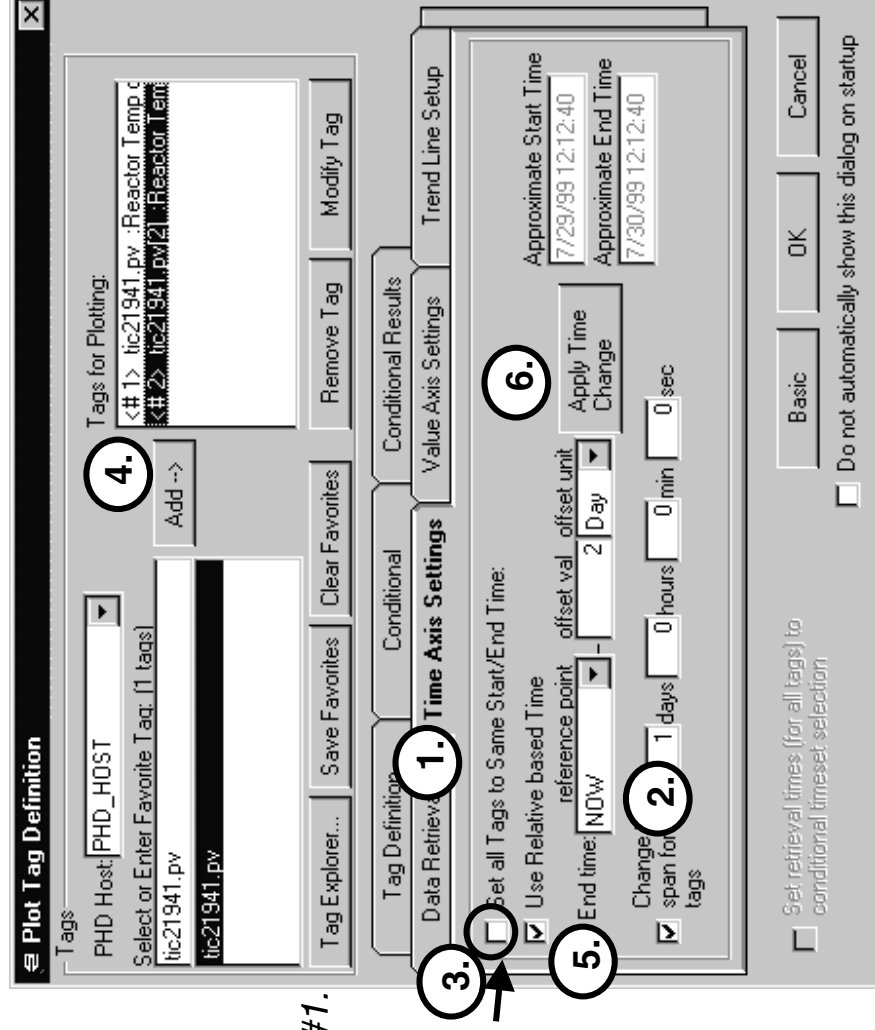
Exercise 1—Build Plot, continued

Detailed Procedure, continued

2. Change the X-Axis (Time Axis) of each tag to compare the operation of the previous two days:

- 2.1 Right Click on the trend and select *Plot Tag Definition*. In the *Plot Tag Definition* window, select 'Time Axis Settings'.
 - 2.2 The time span for all tags should be 1 day.
 - 2.3 Deselect the item "Set all Tags to... Time."
 - 2.4 In the Tags for Plotting window, select tag #1.
 - 2.5 Enter NOW -1 day for the tag's End time. (Do not type-in the minus sign.)
 - 2.6 Select 'Apply Time Change'.
 - 2.7 Select tag #2.
Enter NOW -2 days for its End time.
Select 'Apply Time Change'.
 - 2.8 Select OK. Observe the plot. (See NOTE)
 - 2.9 Select tag #1 at the bottom of the plot, and look at its start/end dates at the top of the plot. Select tag #2 and look at its dates.
3. Save the Plot.
Select the Save icon and save the plot as *PLOT1*.

END OF DETAILED PROCEDURE



NOTE

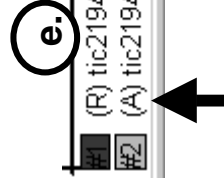
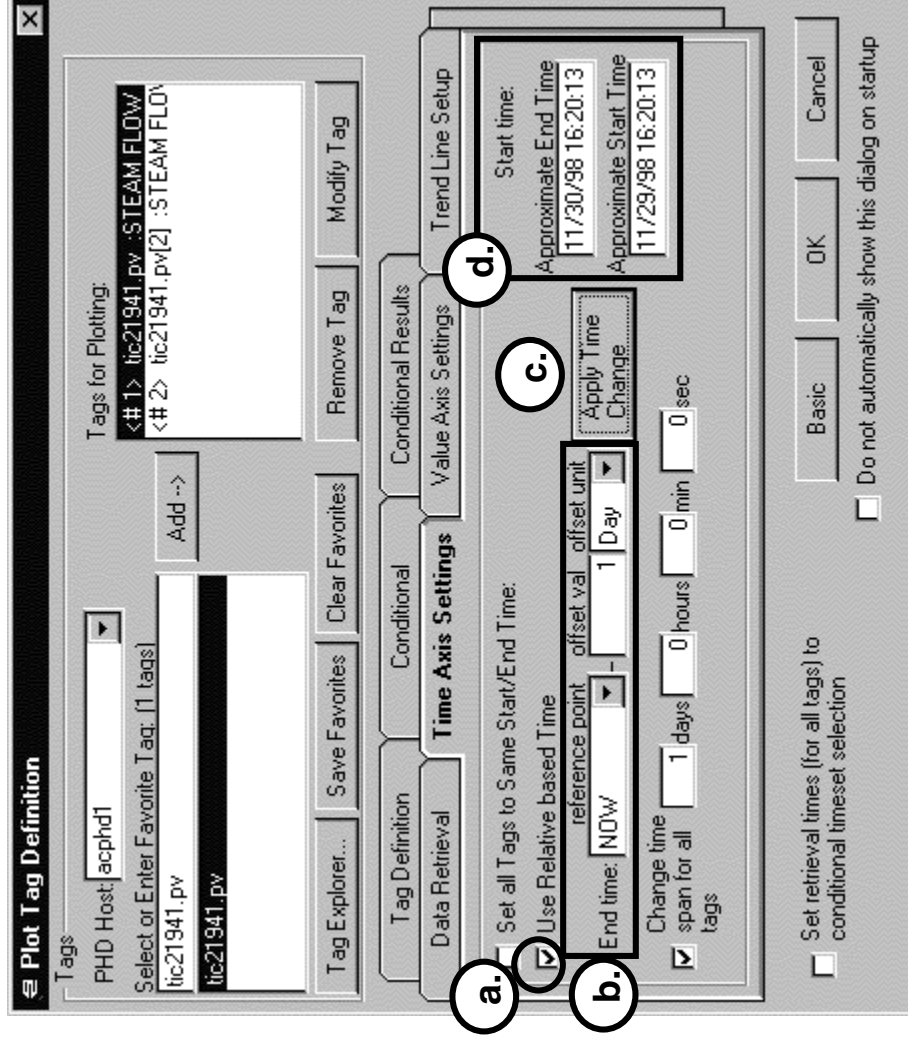
Asterisks (***) appear beside the date/time indicators in the Plot Window to show that the tags have different time spans.

Exercise 1—Build Plot, *continued*

For Your Information:

Relative Based Time

- a. If 'Use Relative based Time' is checked, then the user has chosen to enter relative times for the selected tag(s).
- b. The user selects the End Time by specifying a reference point (Now, Today, Yesterday, Tomorrow, Hour, Month, or Year) and an offset value to be subtracted from the reference point. The offset may be in units of seconds, minutes, hours, or days.
- c. When the user selects "Apply Time Change", the End Time is set.
- d. The Start Time is *calculated* by subtracting the time span from the End Time.
- e. The tag information at the bottom of a plot shows (R) if the tag is using relative-based time and (A) if absolute.



Exercise 2—Annotate, Hairline, Data Table

Instructions

Use the Annotate feature to add comments (annotations) to your plot.

Use the Hairline feature to read-out a value at a selected place on the trend.

Use the Data Table feature to view the values, timestamps and confidences of the entire plot in a data table.

Overview

If you need more information than is provided below to do the steps, refer to the following pages for more detailed procedures.

- ☐ 1. Annotations
 - Using your previous plot, enter two comments of your choice with the ‘**Annotate**’ icon.
 - Make the annotation text visible (View\Annotate**Show Text**).
 - **Position each annotation text** on a temperature trace, then print the plot.
- ☐ 2. Save Plot
 - **Save** the plot to the same file as the previous exercise.
- ☐ 3. View Values
 - Turn on the Hairline using the ‘**Hairline**’ icon.
 - Use the mouse to position the hairline.
 - View the values in the tag legend at the bottom of the plot.
 - Lock the hairline.
 - Use the left arrow key to move the hairline in small increments.
 - Use the left arrow key and the CTL key to move the hairline in larger increments.
 - Use the right arrow key to reset the hairline to the right side of the plot.
- ☐ 4. View Data Table
 - View data using the ‘**Data**’ icon. The values at the position of the hairline are highlighted in the table. Select a row in the table to move the hairline to that location on the trend.

Exercise 2—Annotate, Hairline, Data Table, continued

Detailed Procedure

1. Annotations

1.1 With plot PLOT1 open, select the Annotate icon.

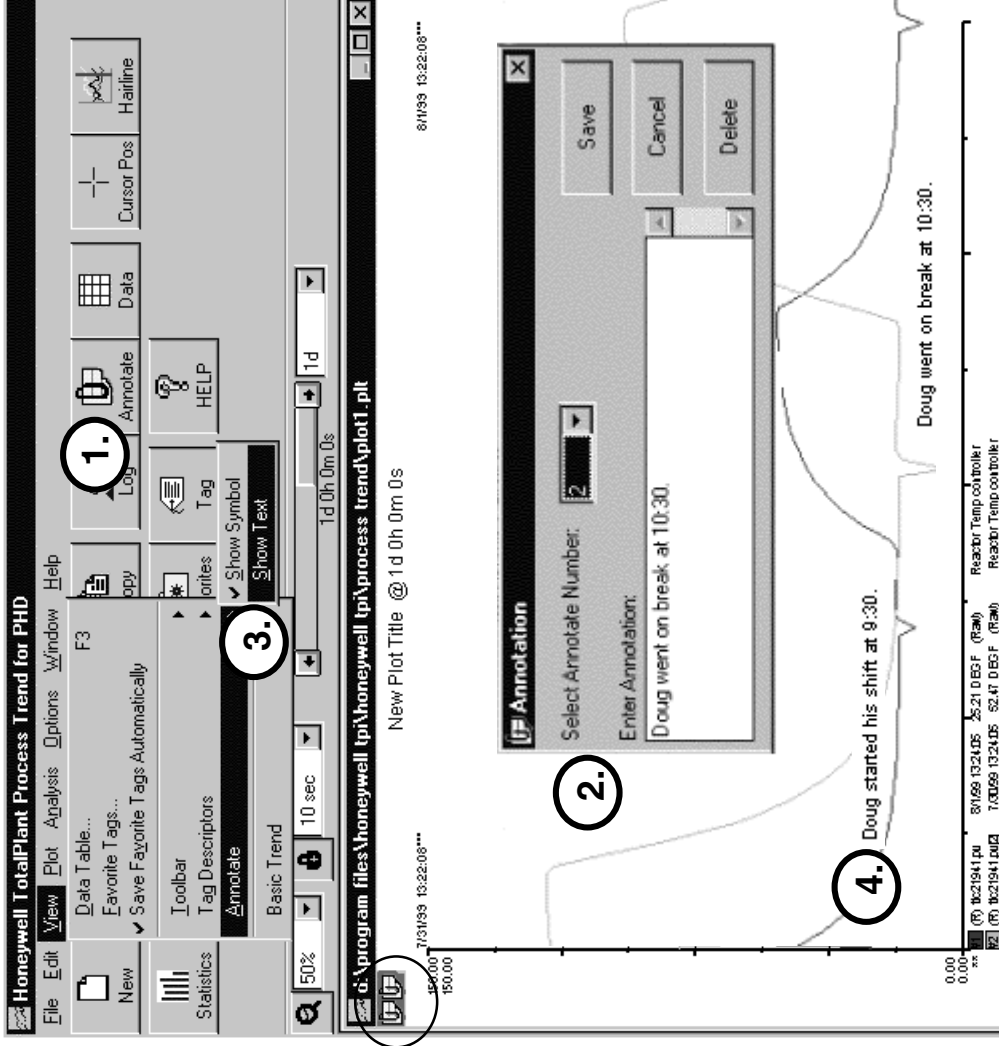
1.2 Type-in an annotation of your choice. Select a different annotation number. Type-in another annotation. Select Save.

The annotation symbols appear in the top left of the plot window.

1.3 Select View\Annotate\Show Text to display the annotations.

1.4 Move the annotation text from the top right corner of the window to where you want them on the plot.

1.5 Capture a screen print (ALT/Print Screen). Paste it into MS Word or Powerpoint and save it as PLOTPRINT.



Note

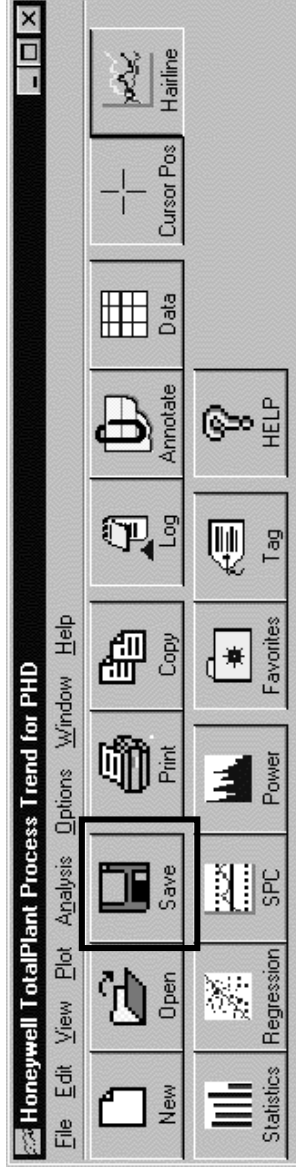
Positioning of annotation text is intended to support screen captures and screen prints. The annotation text does not move with the data, but remains in the same location as the trend updates.

Exercise 2—Annotate, Hairline, Data Table, continued

Detailed Procedure, continued

2. Save Plot

Select the 'Save' icon to save the plot as the same name.



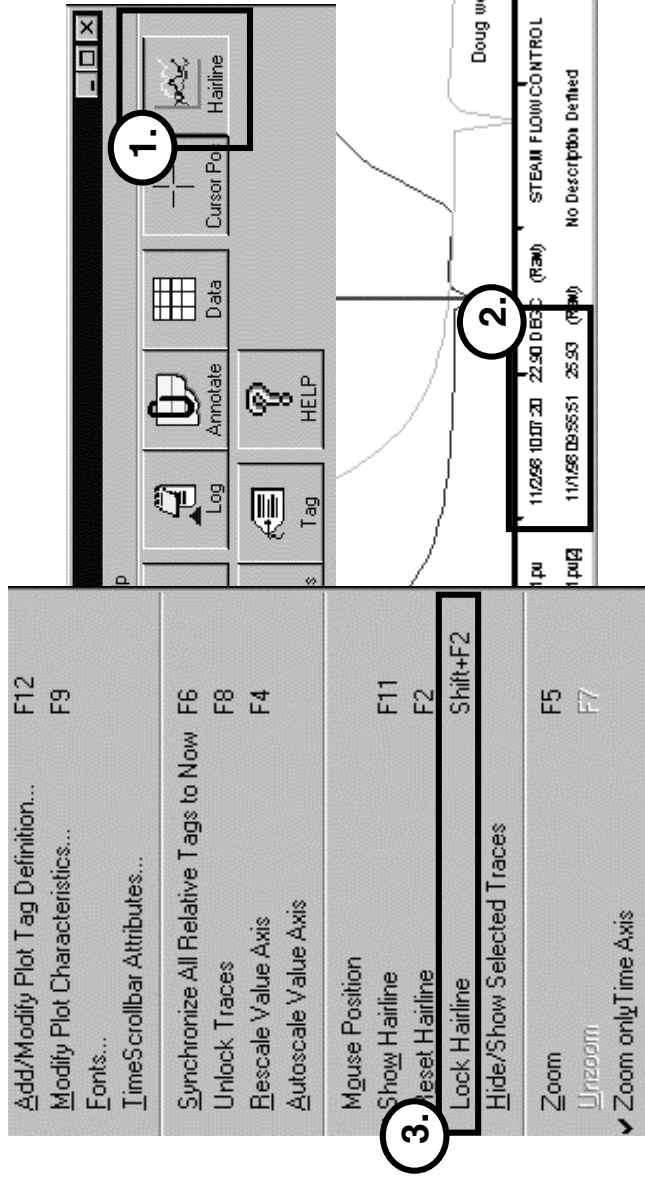
3. View Values Using Hairline

3.1 Select the 'Hairline' icon to display the Hairline. (It is a pink vertical bar.)

3.2 Move the mouse to position the hairline and watch the values at the bottom of the window.

3.3 Right Click to display the menu, then select 'Lock Hairline' (cursor movement will not change the hairline).

3.4 Press the left arrow key to move the hairline in small increments. Use the CTL key with the left arrow key to move in larger increments.

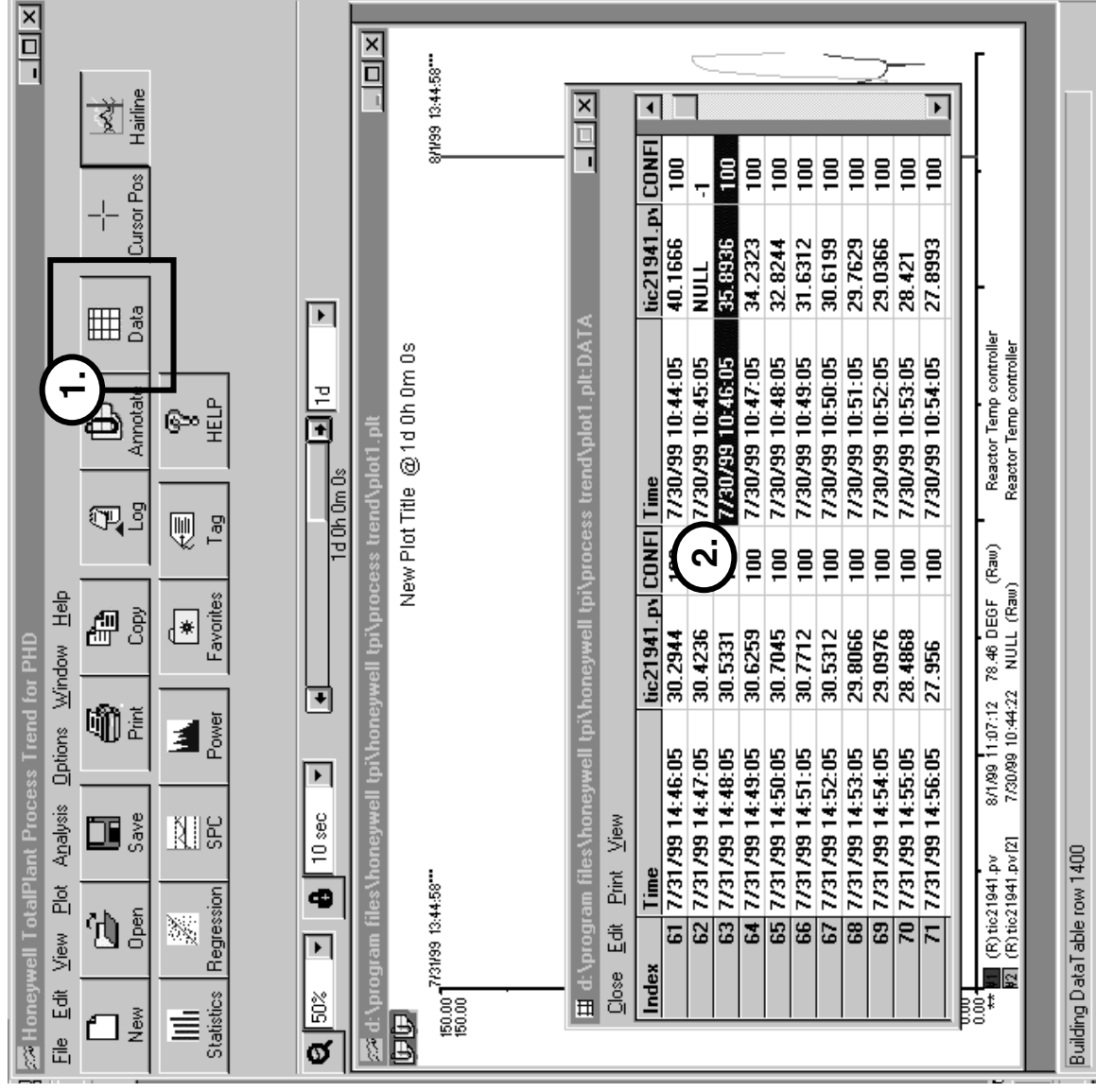


Exercise 2—Annotate, Hairline, Data Table, continued

Detailed Procedure, continued

4. View Data Table

- 4.1 Select the 'Data' icon.
- 4.2 The values at the position of the hairline are highlighted in the table.
- 4.3 Select a row in the table. The hairline moves to that location on the trend.
- 4.4 Unlock, then move the hairline.
- Notice the values at the hairline are highlighted in the table.
- 4.5 Press Shift/F2 to lock the hairline.
- 4.6 Close the data table and remove the hairline.



END OF DETAILED PROCEDURE

Exercise 3—Unlock Trend, Operate Scrollbar

Instructions

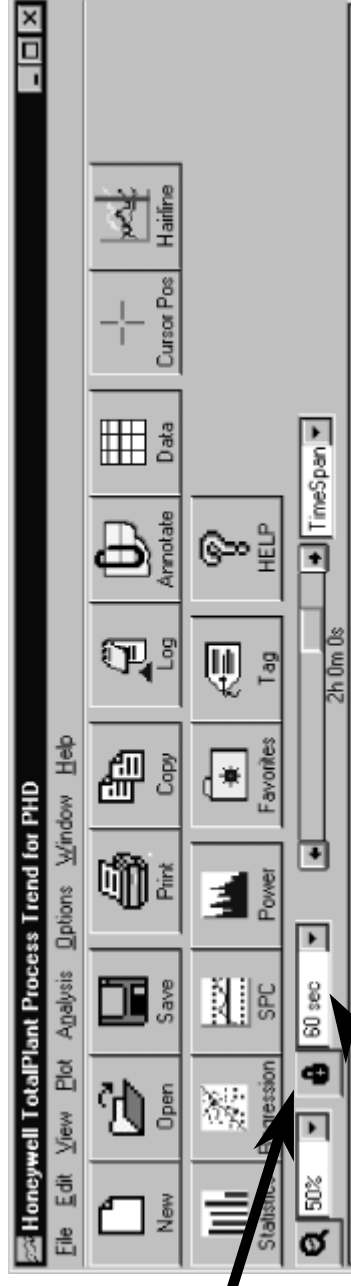
In this exercise, you will unlock the trend to cause it to update periodically, change the time span of the plot window, and scroll through the plot data.

Set X-Axis (Time Axis)

1. Right-Click, select the Plot Tag Definition. Set both tags to the same Time Axis, with the end time relative to current time and no offset. Set the time span to 2 hours.

Unlock Trend

1. Click on the padlock icon to unlock the traces to start the trend updating.
2. Set the update rate of the Plot Window to 10 seconds.



Watch the new data at the right side of the Plot Window.

3. What is the fastest update rate for a plot? _____

4. Lock the trend. _____

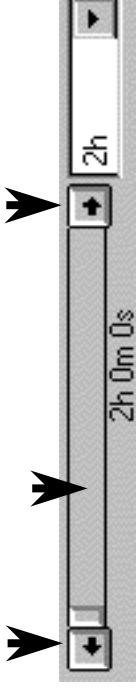
Why lock the trend?

- Locking the trend stops incoming data, allowing you to work with the existing data.
- Before minimizing the Process Trend or switching to a different application with Process Trend still open, it is a good idea to lock the trend first to stop it from updating, thus freeing up resources on your machine.

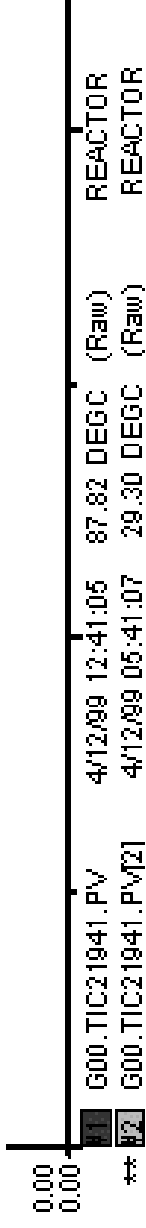
Exercise 3—Unlock Trend, Operate Scrollbar *continued*

Operate Scrollbar

1. Operate the scrollbar to view older data.
Click an arrow to make small moves.
Click inside the scrollbar to make large moves.



2. The scrollbar affects only selected tags (** beside tagname).
Left-Click on one of the tags. The other tag will be deselected



Now use the scrollbar to scroll through data for the selected tag only. Use this feature to compare operation over different time frames.

3. Use the CTL key to select both tags.

4. With both tags selected (** beside tagnames), notice that the “thumb” on the scrollbar is not available.

The scrollbar is not operational when the selected tags have different time axis.

Indication that scrollbar
is not available



5. Right-Click. Select “Plot Tag Definition”. Select Time Axis Settings. Select “Change time span for all tags”.



Now that the selected tags have the same time axis, the scrollbar is available.

Exercise 3—Unlock Trend, Operate Scrollbar, *continued*

6. Drag the “thumb” control on the scrollbar.

As you drag the thumb, observe the End date/time indication shown *under the scrollbar*.



7. Drag the “thumb” control to the far right.

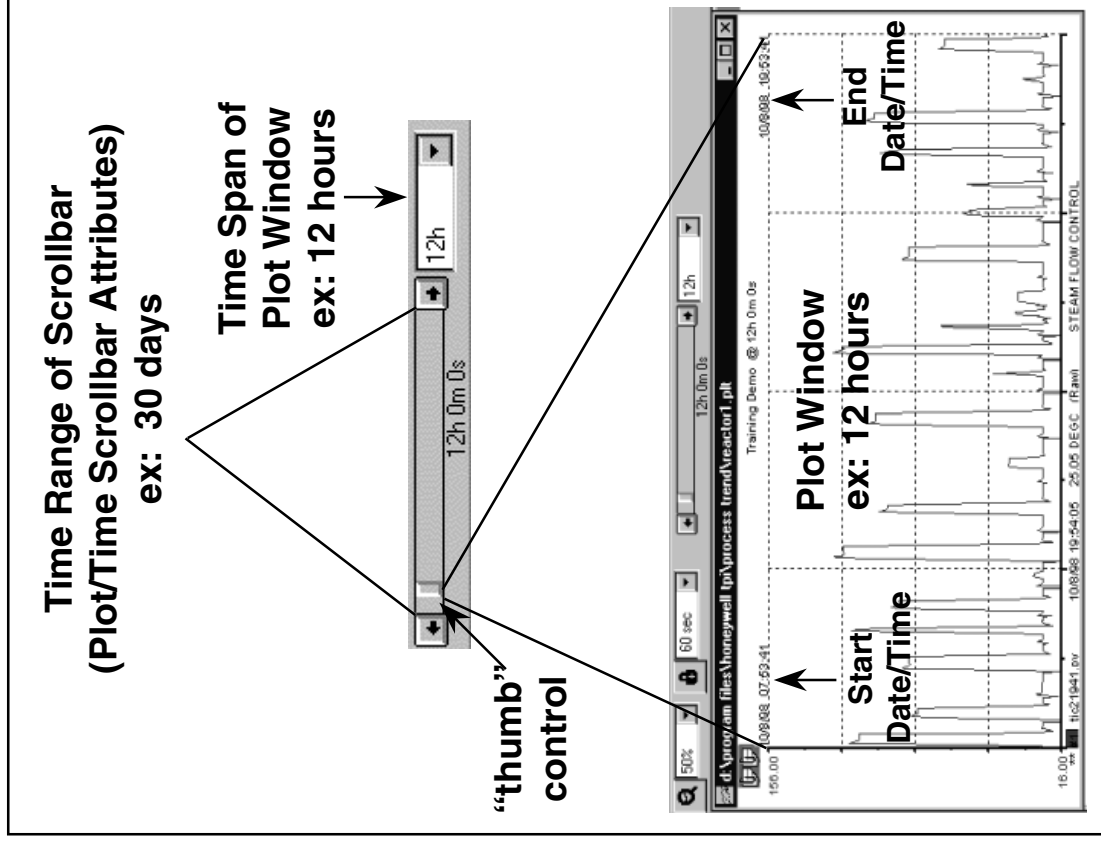
Record the Plot Window Start and End date/times after you complete your move.

Start Date/Time = _____
End Date/Time = _____

8. Drag the “thumb” control to the far left.

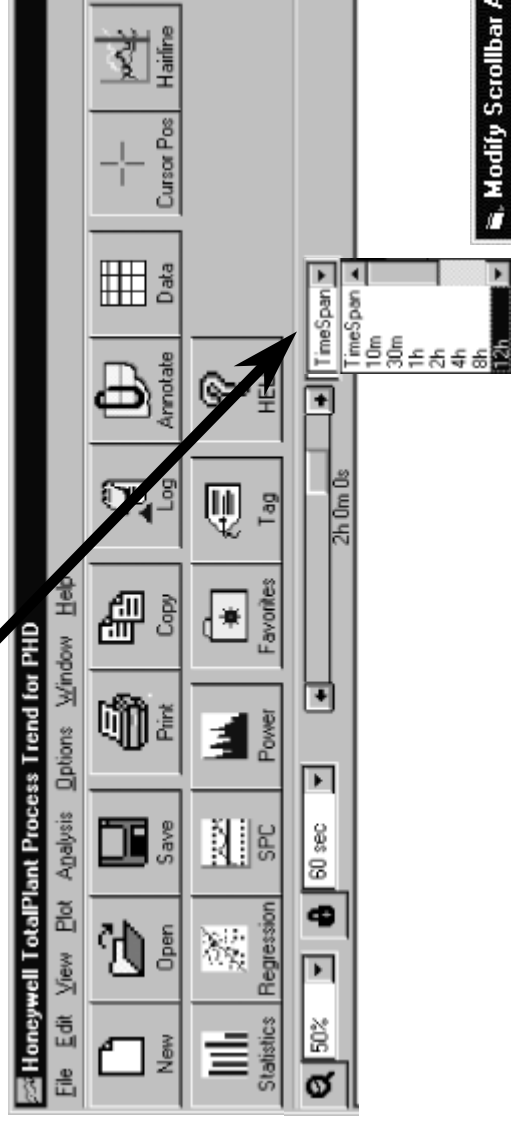
Record the Plot Window Start and End date/times after you complete your move.

Start Date/Time = _____
End Date/Time = _____



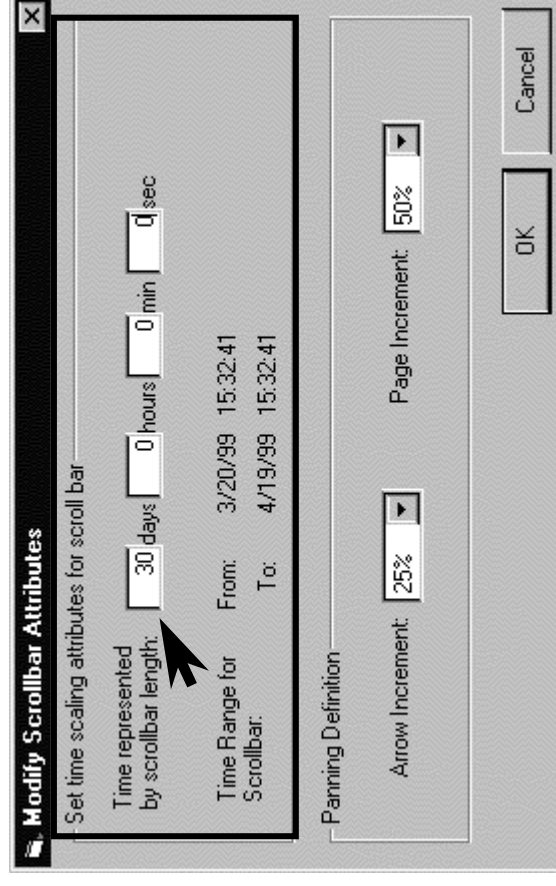
Exercise 3—Unlock Trend, Operate Scrollbar *continued*

- Use the Up/Down arrow keys to increase and decrease the time span of the Plot Window.
- Select a 12 hour time span from the pulldown menu.



Modify Scrollbar

- Right-Click on the trend, then select “TimeScrollbar Attributes”.
- Set the length (time range) of the scrollbar to 30 days.

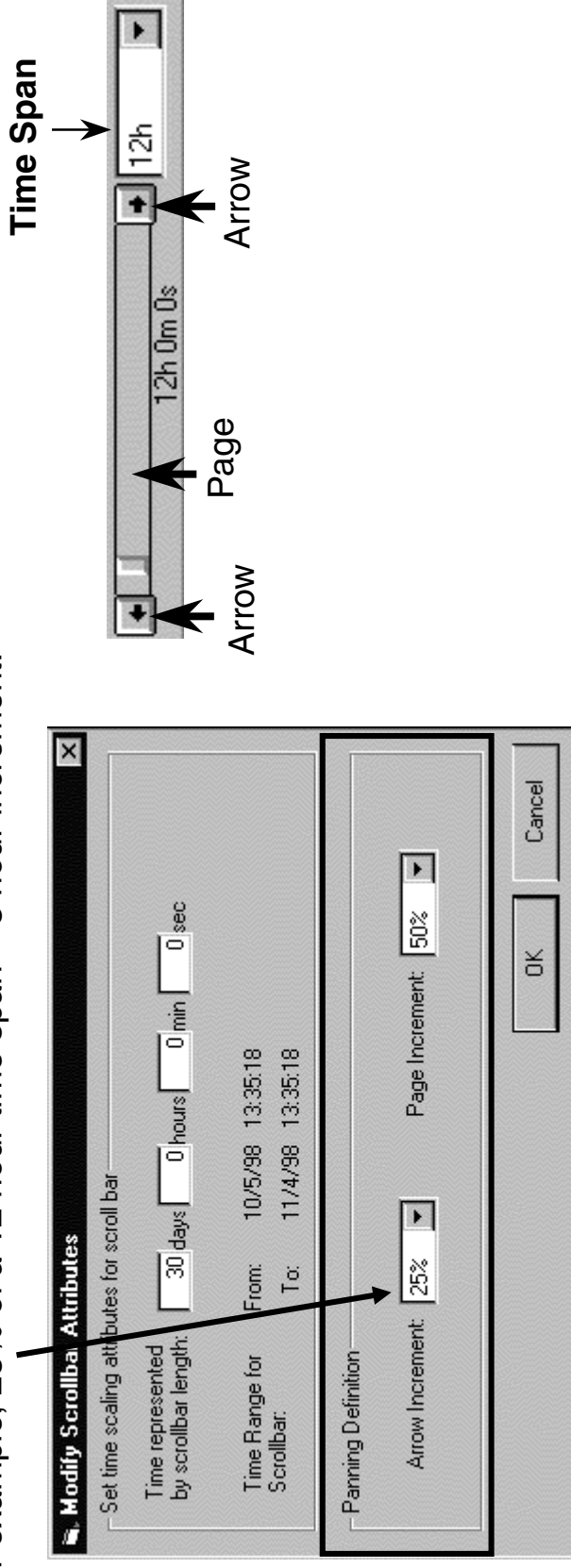


Exercise 3—Unlock Trend, Operate Scrollbar, *continued*

3. The scrollbar “arrow” increment and “page” increment are adjustable.

The increment = % of time span.

For example, 25% of a 12 hour time span = 3 hour increment.

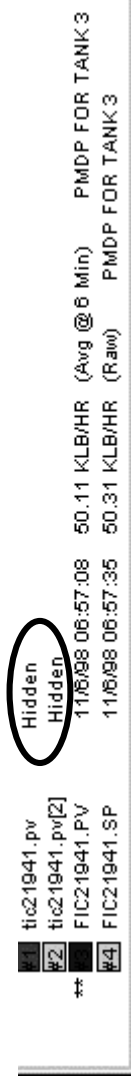


4. Experiment with different Arrow and Page increments.

Exercise 3—Unlock Trend, Operate Scrollbar, *continued*

Practice:

1. Add a flow PV tag to your trend plot: Right Click/Add/Modify Plot Tag Definition
2. Left-Click on the flow tag in the legend at the bottom of the plot (** appears beside selected tag). Other tags are deselected.
3. Operate the scrollbar to view the data—the scrollbar moves through the data of the selected tag only. The other tags stay at the previous start/end time.
4. To aid in viewing a plot containing multiple tags, you may want to hide specific trend traces. Alt/Left Click on a tag at the bottom of the plot to hide its trace




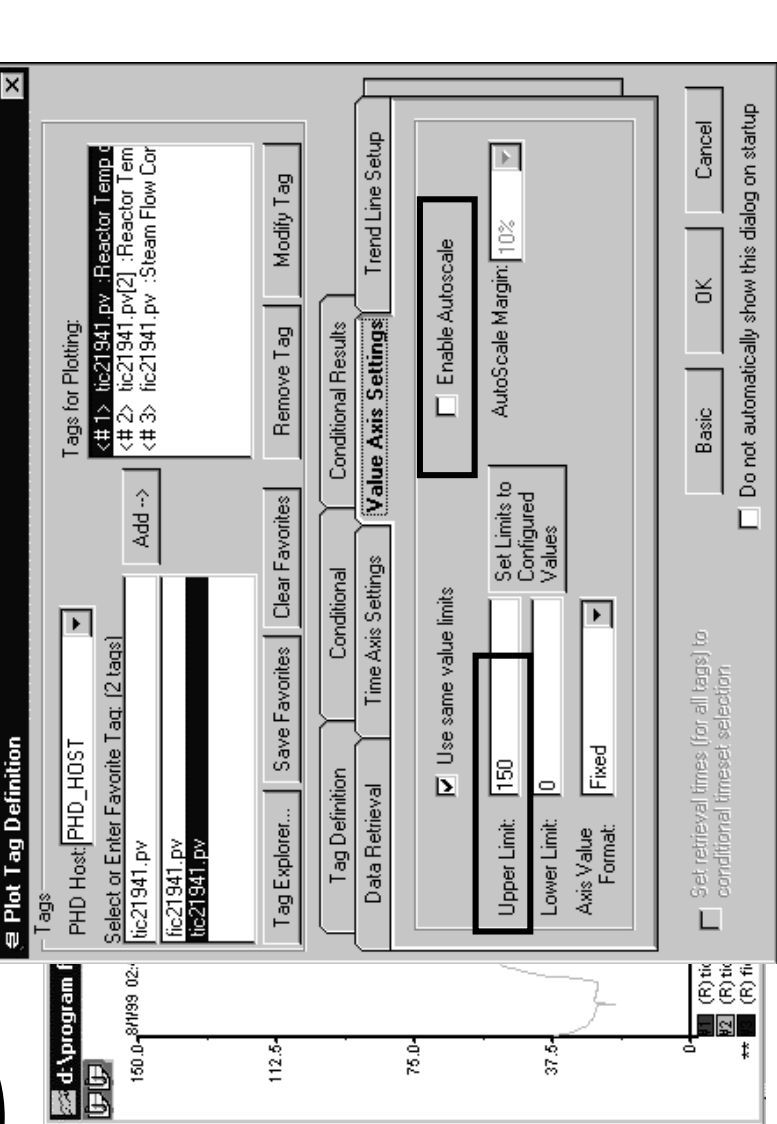
END OF EXERCISE

Exercise 4—Change Trend Scale

Instructions

In this exercise, you will rescale the trend using the following methods:

- Set one scale for all tags being plotted.
- Set a different scale for each tag.
- Apply Automatic Rescaling (continuous adjustment to highest/lowest values).
- Perform manual rescaling (one-time adjustment to highest/lowest values).

1. In the Plot Window, double click on either the upper or lower value limit for a tag.

2. Read the Text Tip for 'Use same value limits'.
Select 'Use same value limits'.
(Enable Autoscale should not be selected.)


Click OK and observe the change in the Y-axis values.

Exercise 4—Change Trend Scale, continued

3. Increase the Upper Limit.
Select OK.

Observe that the scale adjusts to reflect the entered upper limit value.

4. In the Plot Tag Definition window, select Value Axis Settings, then select each tag in the Tags For Plotting window and notice that the upper limits for the tags are the same.

5. Select 'Set Limits to Configured Values' to return the upper limits to the configured value for each tag.

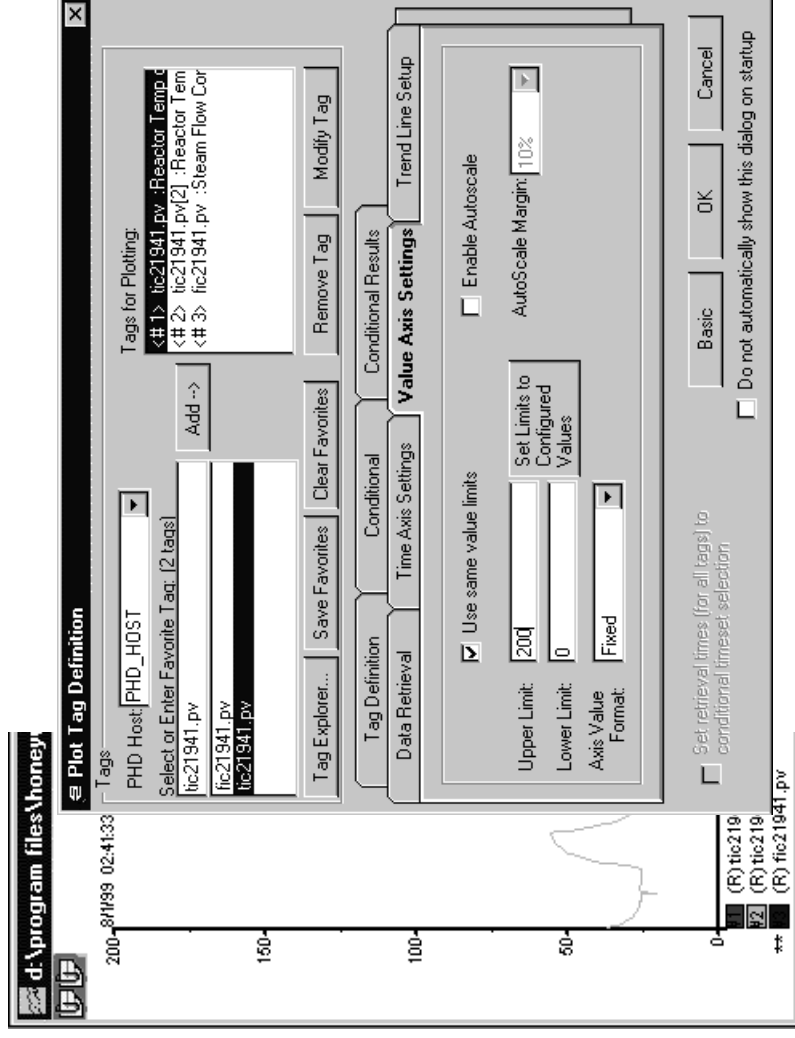
Rescale

Rescaling changes the plot scale to allow the user to see a value when it is outside the current plot scale.

6. Change the time span of the Plot Window from 12 hours to 10 minutes, then manually rescale the plot (press F4) to show the highest and lowest values over the new time span.

TIP

To view limits in the trace color: Right-click. Modify Plot Characteristics. Display Value Axis Text. Trace Color.



Exercise 4—Change Trend Scale, *continued*

5. Use the scrollbar to go back in time—notice that with Autoscale disabled, the scale does not change to accommodate values outside the scale.
6. Enable Autoscale and observe the scale automatically adjust to accommodate values as you scroll through the data.

Autoscale

Automatically and continuously adjusts each tag's trend scale values to be the highest and lowest values each tag has had over the time span.

If a value goes out of range, the plot automatically rescales so its trace remains on the screen.

7. Return to the Plot Tag Definition window and select Value Axis Settings.

The configurable **Auto Scale Margin %** is the amount added to the scale. Rescaling does not occur until the value is outside the margin—to prevent continuous rescaling when the tag is operating around the upper or lower limit.

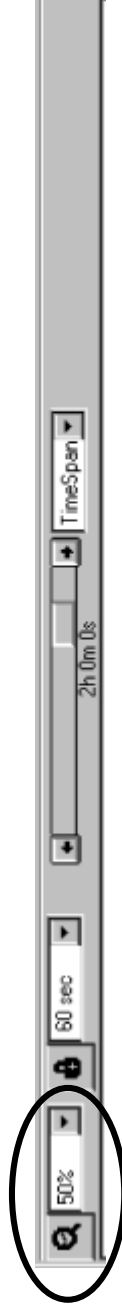
8. Disable Automatic Scaling.
9. Adjust the upper limit of each tag so that you can see the trend trace of all three tags (Double-click on each tags upper or lower scale value in the plot window to directly access its upper limit entry.)

END OF EXERCISE

Exercise 5—Zoom, Cursor Position Crosshair

Instructions

In this exercise, you will use the Zoom tool to view the trend data and use the Crosshair tool to determine what a value would be at any point on the graph.



Zoom

1. Set the zoom to affect only the time axis (Right Click\Zoom only Time axis - should be checked).
2. Set the zoom factor to 1000%.
3. Click the zoom icon to select the function.
4. Position cursor and left-click to zoom-out.

5. Unzoom: F7

6. Set the zoom factor to 90%, then zoom-in twice:
F5

7. Unzoom to original plot: F7

8. To remove any time offset created by the zoom adjustments, Synchronize All Relative Tags to Now: F6

Zoom Factor
5% to 1000%
<100% = zoom IN
>100% = zoom OUT

Example: If the time span is 1 hour and the zoom is 50%, then after the user zooms on the plot, the new time span is 30 min.

NOTE

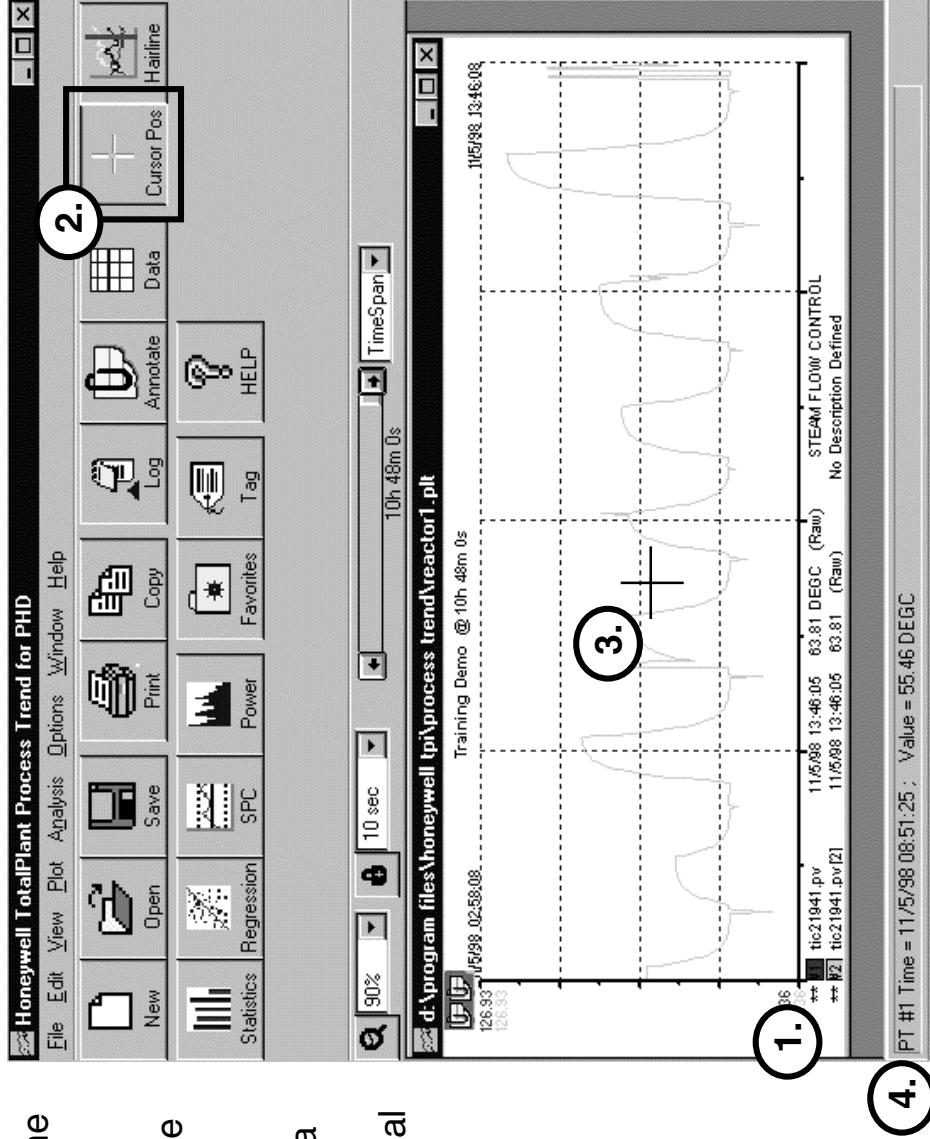
The plot remembers the last 5 zoom adjustments.

Exercise 5—Zoom, Cursor Position Crosshair

Cursor Position Crosshair

1. Select tag #1. (Asterisks appear beside selected tag.)
2. Select the Cursor Position tool (use the icon).
3. Move the crosshair to anywhere on the plot.
4. At the bottom of the window, you get a value readout. The readout is simply the X/Y value on the plot, not the actual trend data.
5. Deselect the Cursor Position icon.

END OF EXERCISE

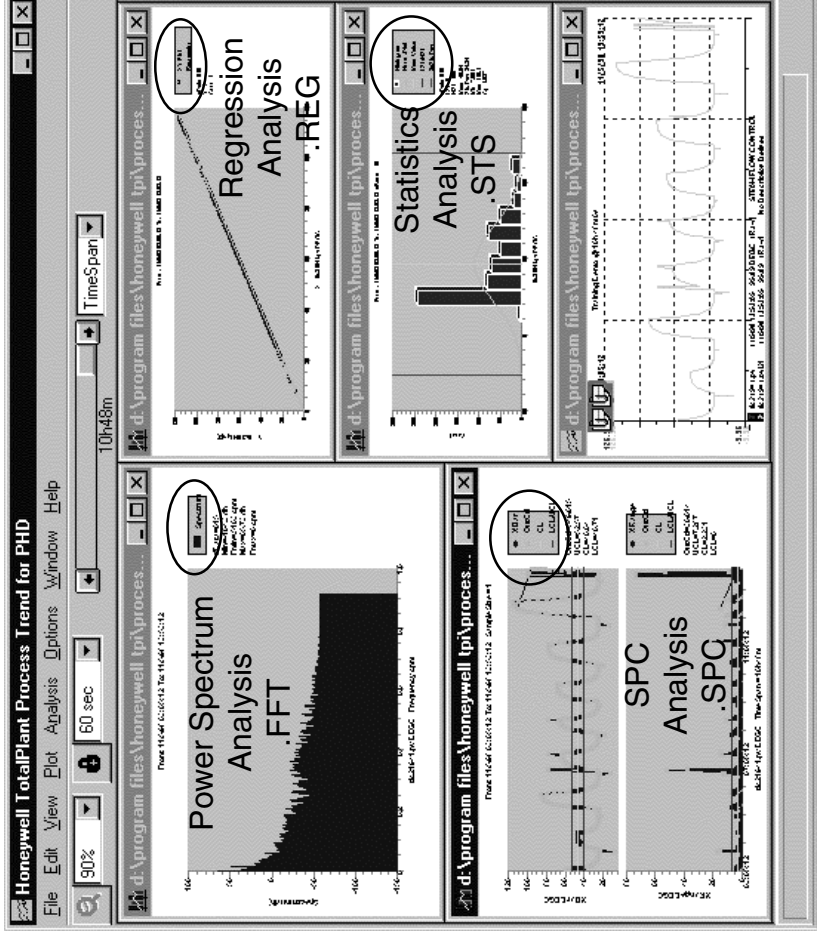
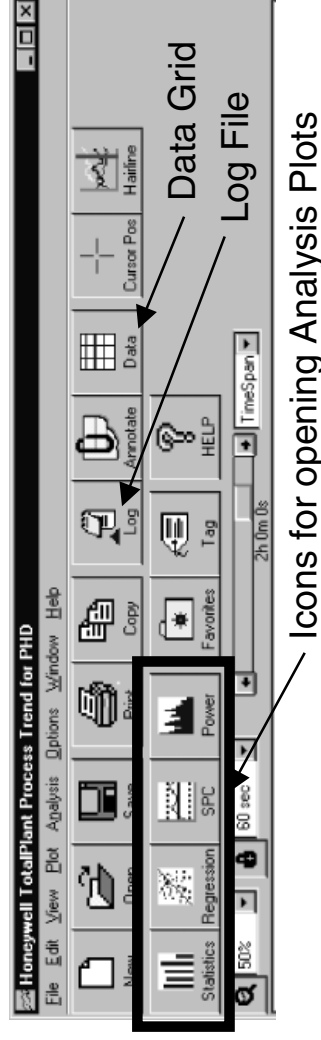


Exercise 6—Analysis Plots, Plot Suite

In this exercise, you will look at the four different types of analysis plots that can be used to analyze process data.

1. Select a temperature tag (**), then select icons to open each type of analysis plot.
2. Tile the windows (Window).
3. Save the set of windows as a plot “suite” (.ste) named SUITE1 (File\Save Suite).
4. Maximize each window, one at a time and do the following:
 - Double-click its legend (circled at right) to view the dialog for that type of analysis plot.
 - View the plot’s log file.
 - View the plot’s Data Grid.
5. Drag your flow controller tag from the Favorite Tags Dialog to an analysis window.

END OF EXERCISE



Exercise 7—Data Retrieval Options, Export Data

In this exercise, you will change your trend to show the average of one tag and the current raw data of another tag.

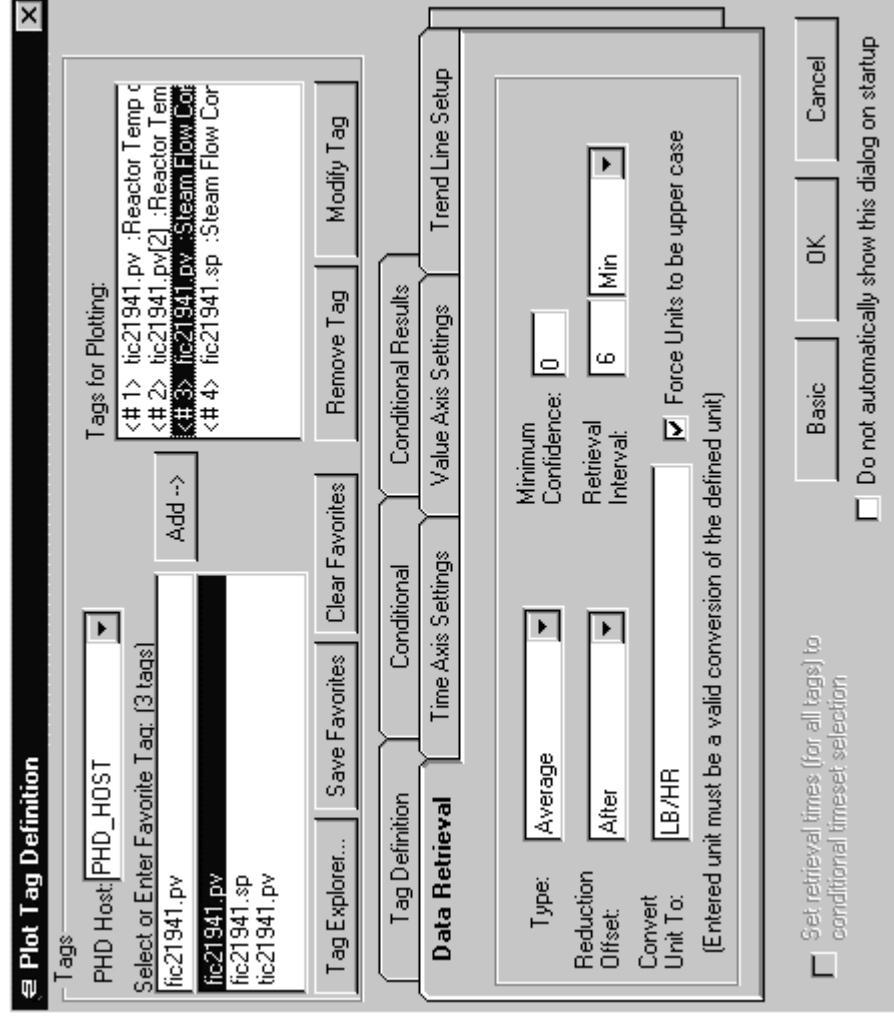
1. Maximize the Trend Plot window (.PLT).
Double-click on the flow PV tag in the tag legend at the bottom of the plot.
2. Configure these Data Retrieval options for the flow PV tag:

Type	Average
Reduction Offset	After
Retrieval Interval	6 Minutes
3. Select one of the temperature PV tags and set its Data Retrieval Type to the same settings.
4. Add your flow SP tag to the Tags for Plotting control.

5. Leave the data retrieval type of the flow SP tag as Raw.

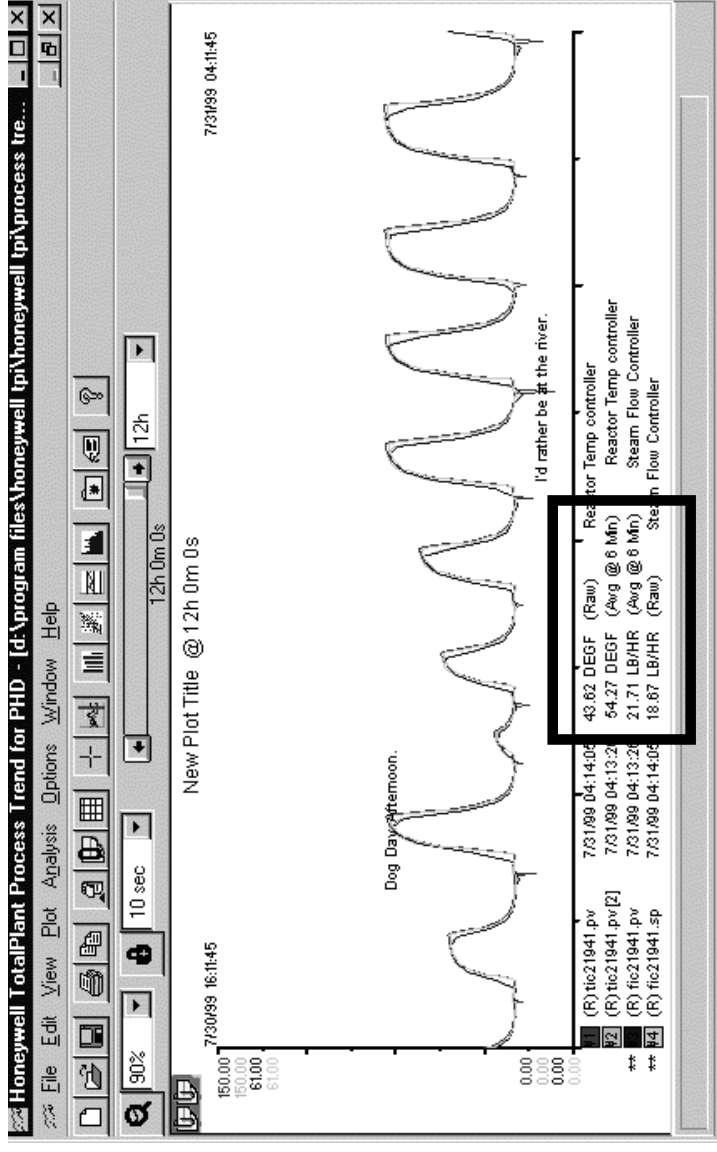
6. OK

The tag legend shows the configured retrieval type for each tag.



Exercise 7—Data Retrieval Options, Export Data, continued

7. Trend the Maximum values (at one minute intervals) of the temperature tag that had a minimum confidence of 90. What retrieval type is shown in the tag's legend? _____



8. Find the "Data Retrieval" topic in the online help and locate definitions of the items in the Data Retrieval dialog box.
9. Export the trend data to a .CSV file named EXPORT: File/Export.
(The Comma Separated Value (.CSV) file format can be read by the MS Excel and Lotus 1-2-3 applications.)
10. Open the file in MS Excel.

END OF EXERCISE

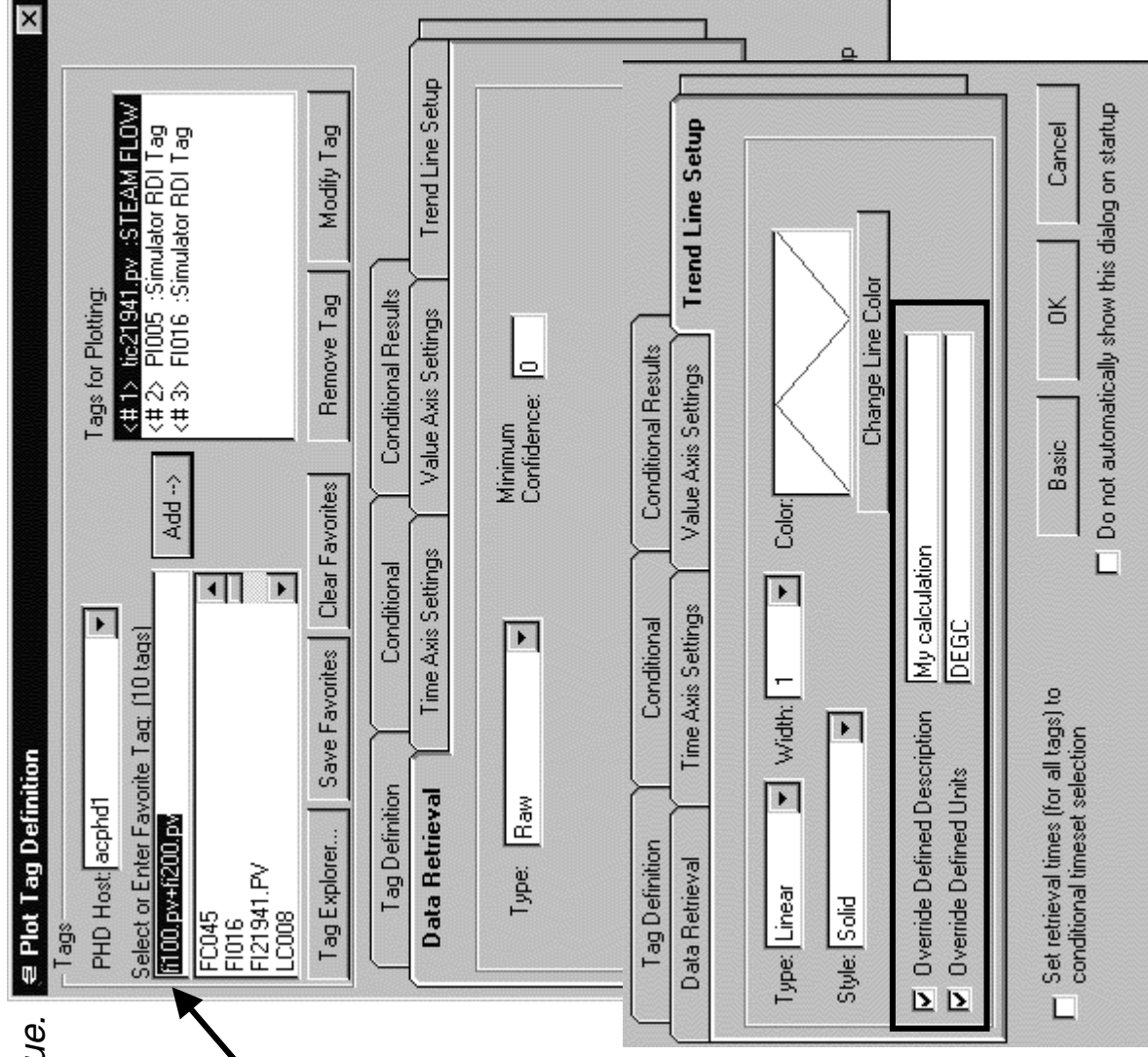
Exercise 8—Calculation Tag

In this exercise, you will trend a calculated value.

1. Return to Process Trend and display the Plot Tag Definition Window.
2. Type the following calculation into the Favorite Tags control:
(your temperature PV tagname) * 10
3. Select Add, then OK.
4. The calculation results are now being trended.
5. To assign engineering units and a description to the calculation, select Trend Line Setup.

Enter the 'Override Defined Description' and 'Override Defined Units'.

Since this is not a PHD tag, it never had a description or units, so you will be overriding "blanks".



Exercise 9—Conditional Query

Instructions

In this exercise, you will query the history files for times (within the trend's scrollbar time range) when a tag's value met a specified condition. You can then select any of the resulting times as the time span of the current trend.

- ☐ 1. Define Time Range - The scrollbar time range determines the time range for conditional queries.
for Query Set it to **7 days** (Right Click\Time Scrollbar Attributes).

- ☐ 2. Define Conditional - Display the Plot Tag Definition window.
Query - Select '**Conditional**'. Select '**Sample**' to input the sample expression.
 - Modify the expression to return the character string "LOW" for time frames
 when your temperature tag (TIC21###.PV) was less than 50:

`If tic21###.pv <50 then return "low" else return "ok" endif`

*(NOTE: The operators - Set the Return Type to '**Character**'.
for Process Trend - Configure the query to resample the data at **1 hour intervals** to create the data
queries are the set.
same as those for - Select '**State Changes Only**' (instead of showing all resampled values meeting
PHD Virtual Tags.) the condition).*

- ☐ 3. Execute Query - Select **Calculate**. Observe status messages in lower left corner of plot window.

- ☐ 4. View Results - When the query completes, look at the **Conditional Results**.
 Select a row in the table to set the retrieval time for all plot tags to that start/end
 time. Select **OK**.
 - The plot shows the time period you selected.

Exercise 10—Modify Plot

Instructions

In this exercise, you will modify various plot options in order to customize the application to suit user preferences.

Favorite Tags (View\Favorite Tags)

- ☐ 1. Make the favorites List contain 3 flow tags and 3 temperature tags.

Plot Defaults (Options\Update Plot Defaults) - NOTE: Defaults don't take effect until you create a new plot.

Plot Setup

- ☐ 2. Specify a dark grey grid with vertical and horizontal lines. Make the title your name.
- ☐ 3. Make the Y-Axis scale appear in the same color as the corresponding trend trace.

Fonts

- ☐ 4. Make all legend text 12 point.

General Options

- ☐ 5. Automatically save changes made to the favorite tags list (trdtags.ini).
- ☐ 6. Zoom should not affect Y-axis scale.
- ☐ 7. Set the login option so a proxy login is used.

Tag Attributes

- ☐ 8. Use thick lines for the trend traces.

Scrollbar

- ☐ 9. Set the maximum number of days for the scrollbar (5 days) and 12 hours for the time span of the plot window.

Customize Toolbar

- ☐ 10. Use small buttons for the toolbar (View/Toolbar).
- ☐ 11. Remove the Print icon from the toolbar (Double-Click on toolbar background).
- ☐ 12. Add two spaces between each of the analysis icons on the toolbar.
- ☐ 13. Move the Add/Modify Tags icon to the far right side of the toolbar.
- ☐ 14. Set the current toolbar as the default (Options).

Exercise 11—Keep Password

Instructions

In this exercise, you will modify the user login options.

Keep Password

1. Select the Keep Password option.
2. Save your plot as PLOT2 using the default path. Close the Process Trend application.
3. Create a shortcut for Process Trend on the desktop:
 1. Right-Click START and select Open All Users.
 2. Locate the Process Trend Shortcut (Total Plant Information program group).
 3. Copy the Process Trend icon.
 4. Paste the shortcut on the desktop.
4. Using Windows Explorer, locate your plot file PLOT2 (Program Files/Honeywell TPI/Process Trend).
5. Drag and drop your file on the Process Trend shortcut.
6. Did the username/password automatically appear in the login dialog?

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