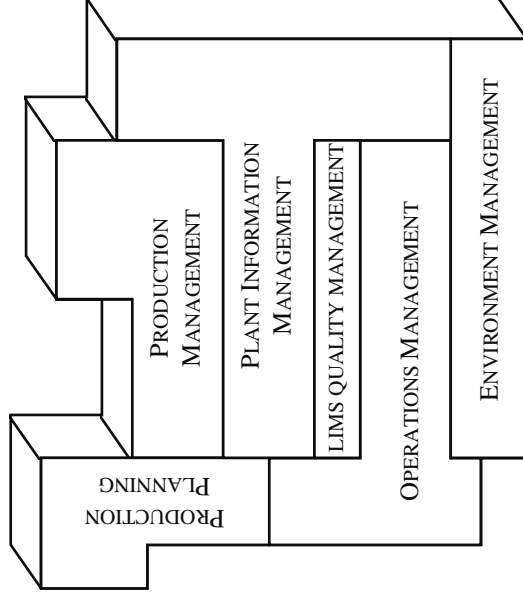


TDC Viewer for PHD



Lesson Objective

Objective:

- Format a TDC 3000 classic graphic display to view PHD data with the TDCViewer and operate the TDCViewer

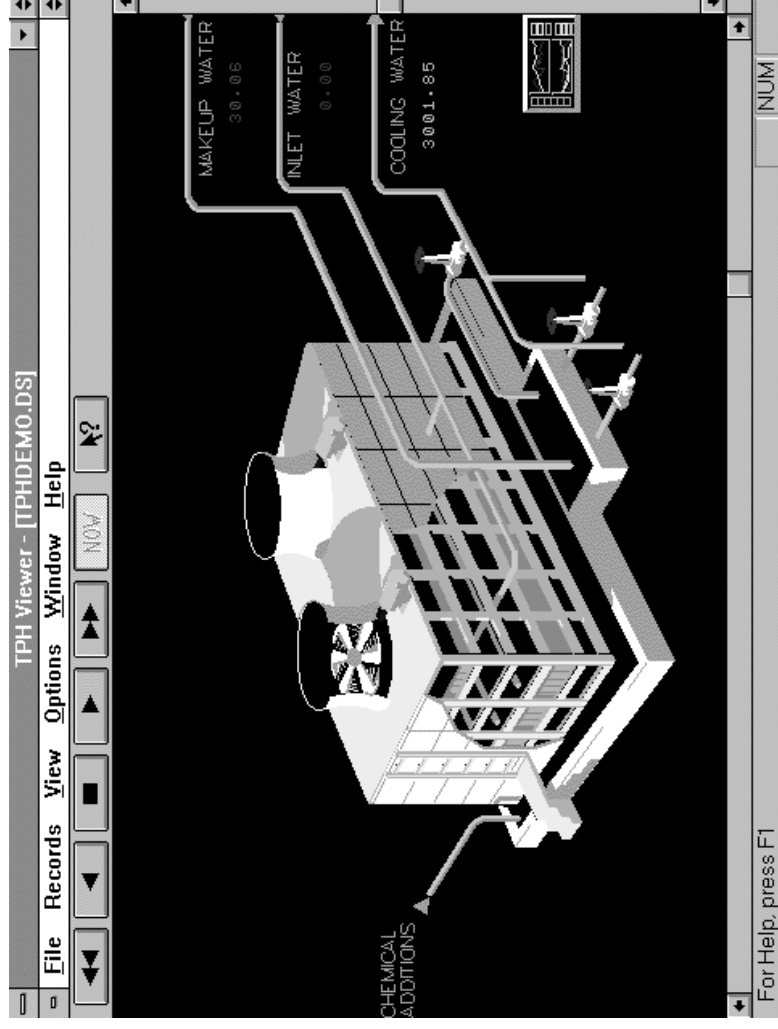
Topics:

- Features
- Preparing .DS file
- Operating TDCViewer
- .DS File Transfer
- Hands-on Exercise

TDCViewer Features

Provides history data in the US schematic format.

- US schematic displays on a PC without modification
- PHD database supplies the values
- Displays historical data on the schematic
- Replay data at configured intervals
- PE Build can be used to modify schematic



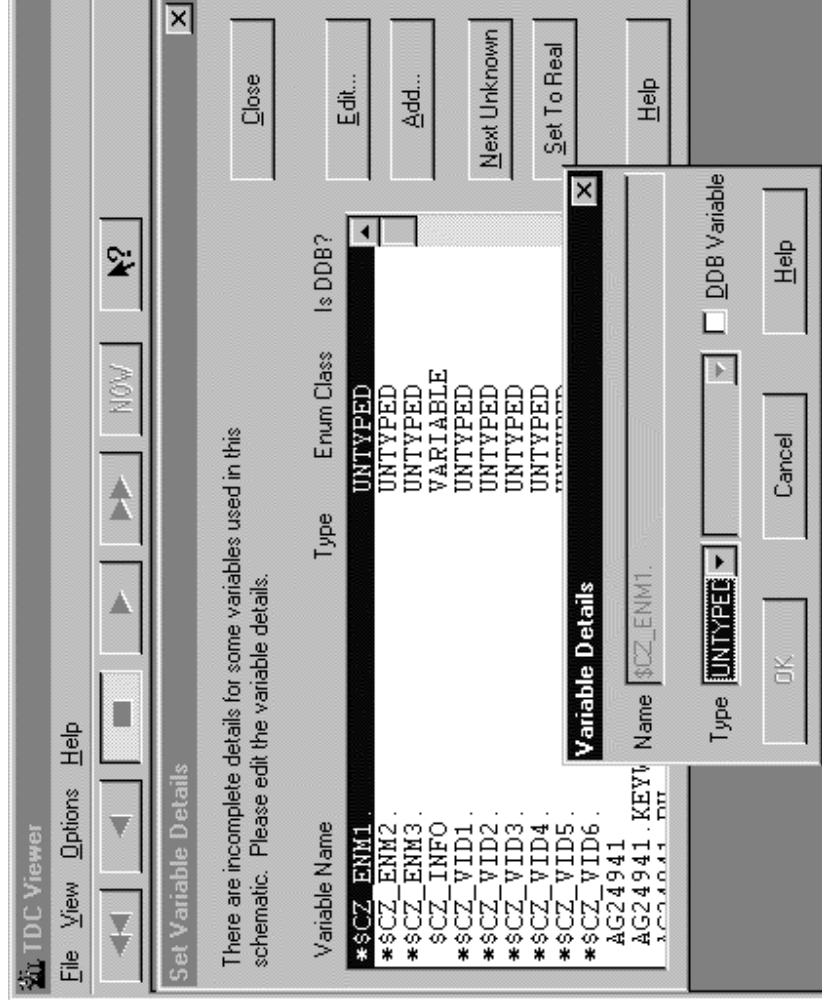
Preparing Schematic File

Schematics may require a little massaging before they can play PHD history. The viewer does the following validation checking:

- parameterized subpictures (displays dialog box if present)
- unknown variable types (displays dialog box if present)
- variable and type match in PHD database (displays dialog box if mismatch or not found)

- If untyped variables exist, you must specify their type through the Edit function.

When all variables types are correct, the viewer saves the information to a .DSV file.



Preparing Schematic File, continued

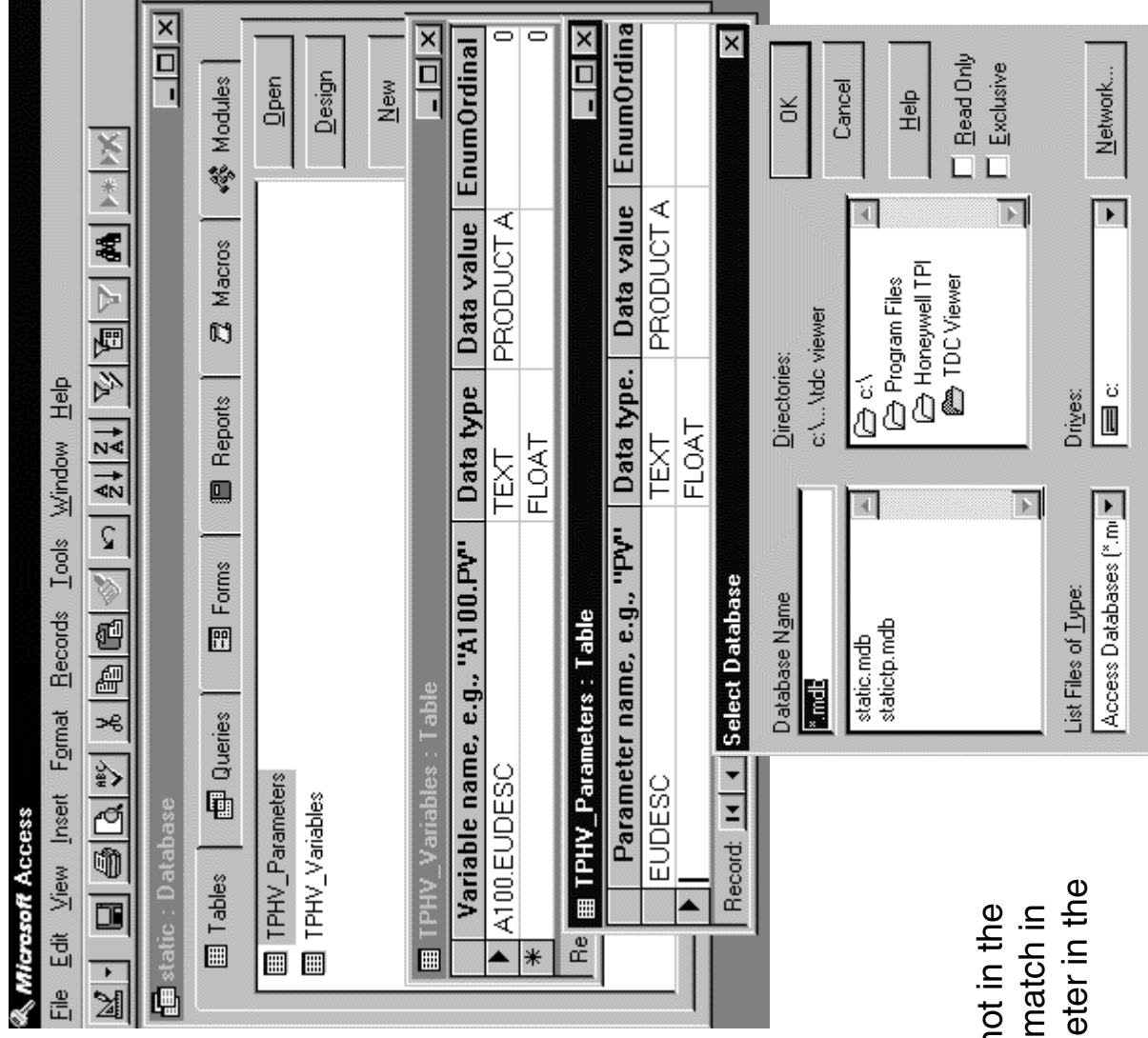
- If unhistorized variables exist in the schematic, you can create a static database so the display shows values instead of error indications.

TDCVIEW.LOG lists the variables the viewer cannot find in the PHD database.



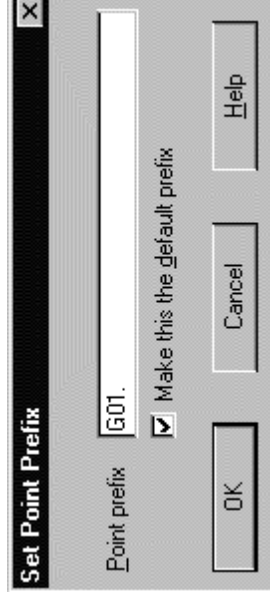
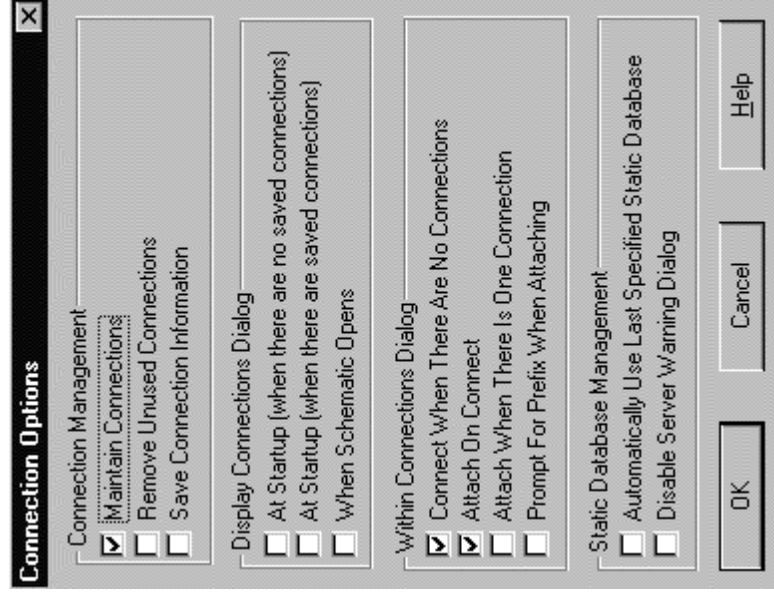
Honeywell tested MS Access as a data source for the static database and supplies a template (STATICTP.MDB). Copy the template, then add the necessary variables/parameters to the appropriate table.

Ex: A100.EUDESC is in the schematic, but not in the PHD database. If the viewer does not find a match in the Variables table, it searches for the parameter in the Parameters table.

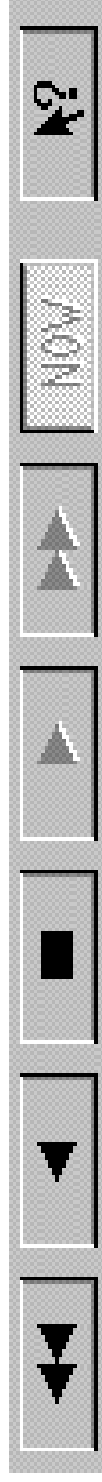


Preparing Schematic File, continued

- If the PHD database uses tag prefixes, configure the viewer to display a prefix dialog box for the user.
- Configure other connection options as desired.



Operating TDCViewer



Rewind (uses Fast increment defined in Set Time Step)

Reverse (uses Play increment defined in Set Time Step)

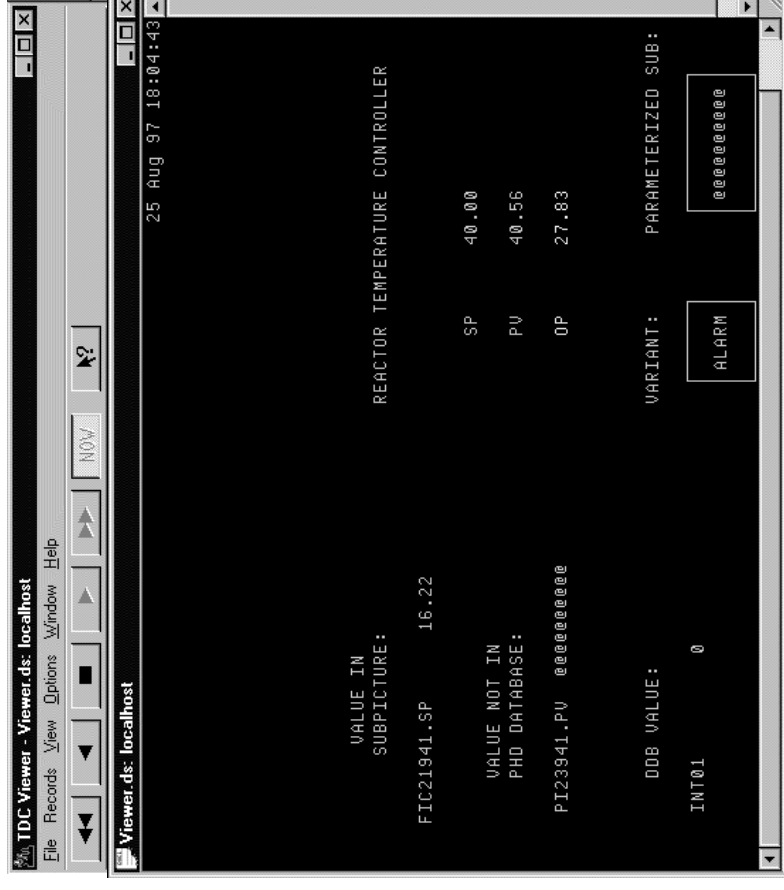
Stop

Play Forward (uses Play increment defined in Set Time Step)

Fast Forward (uses Fast increment defined in Set Time Step)

Now (Causes viewer to get most recent data. Disables Play and Fast Forward)

Online Help



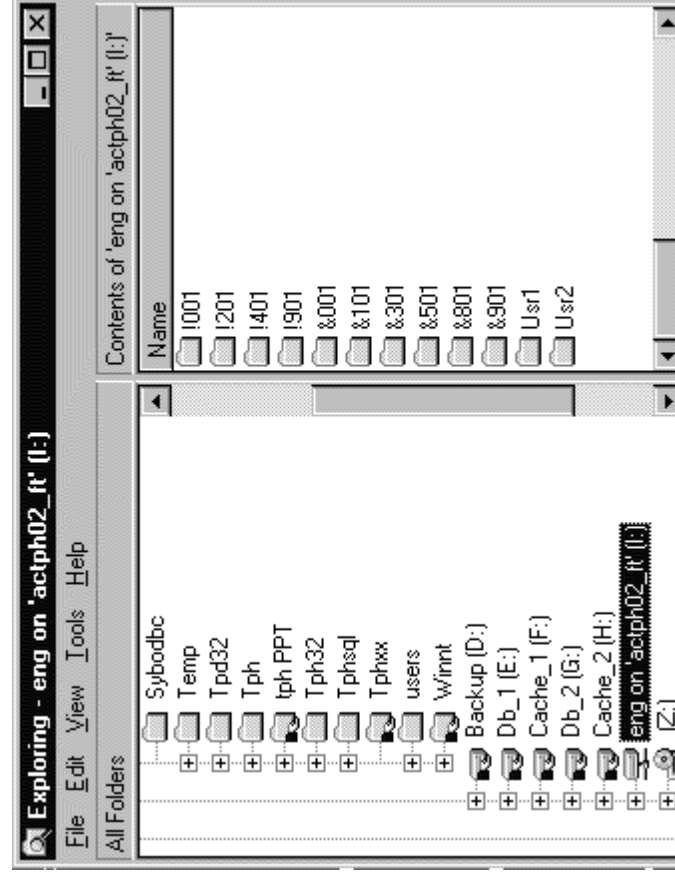
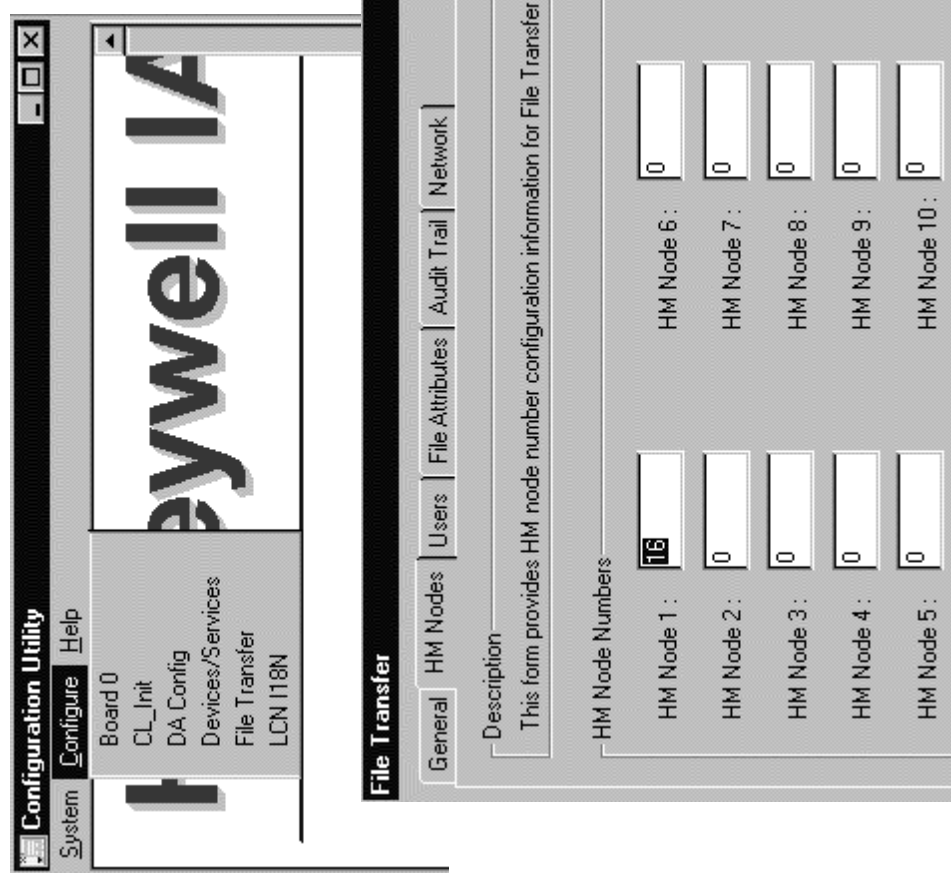
Transferring .DS Files

TDC Viewer supports .DS files from the following sources:

1. .DS files created on a PC using PE Build for DOS or PE Build for Windows
2. .DS files transferred from the LCN using Transfer for DOS
3. .DS files transferred from the LCN using a CM50
4. .DS files transferred from the LCN using Honeywell's File Transfer

Honeywell File Transfer

Honeywell File Transfer software for the TPS node can be used to move the .DS file from the LCN to the PC.



Hands-On Exercise

For the following exercise, copy the schematic SCHEM1.DS from your instructor's machine (ACPHDx\PHD_xx) to the TDC VIEWER folder on your machine.

Hands-On Exercise, *continued*

Opening the Viewer

1. Look in the TDCV32.INI file to see where the TDCVIEW.LOG file resides. Record the location here:
-

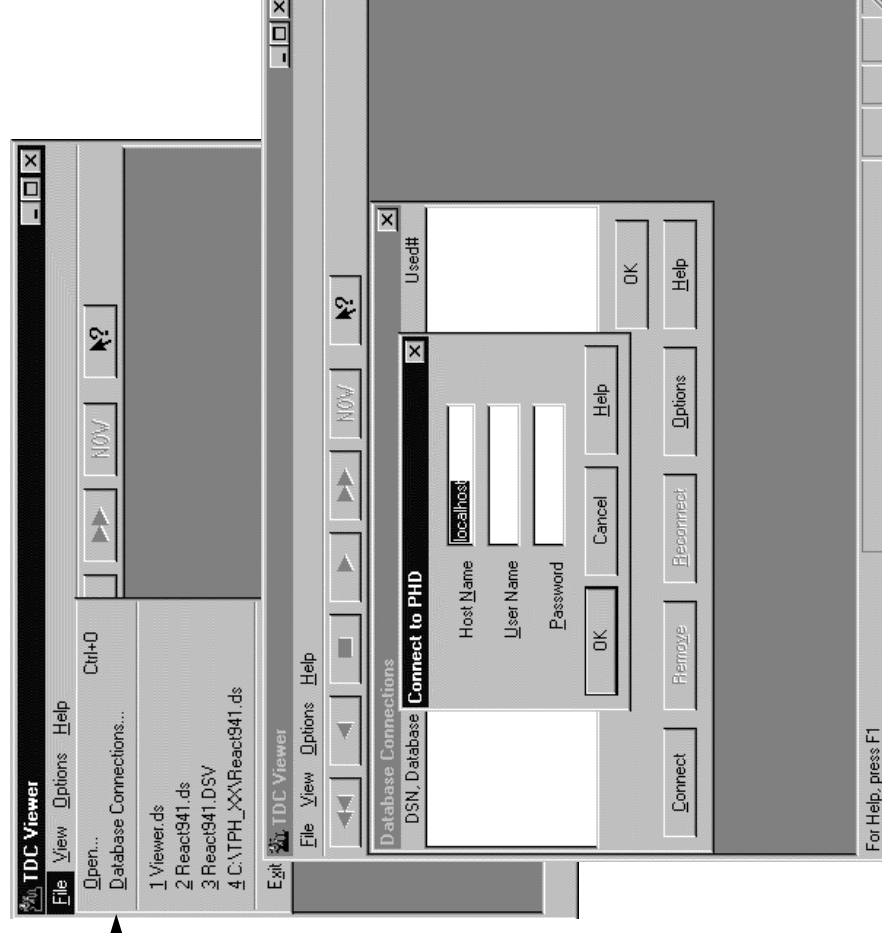
2. Open TDCViewer.

3. Select Database Connections and connect (login) to the training PHD server:

Host Name	
User Name	totalplant
Password	TOTALPLANT

OK.

4. Select Options.

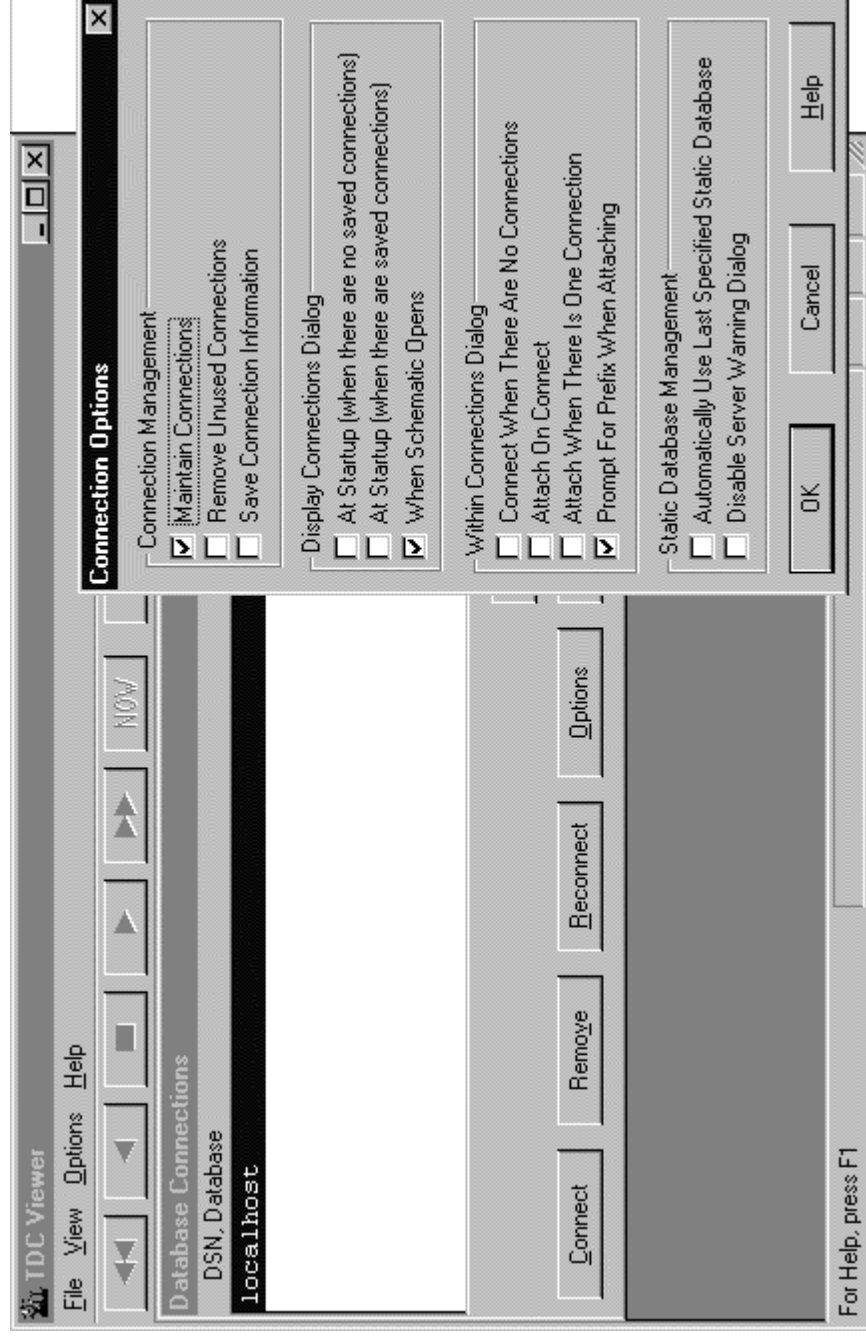


Hands-On Exercise, *continued*

5. Configure the Connection Options as shown below.

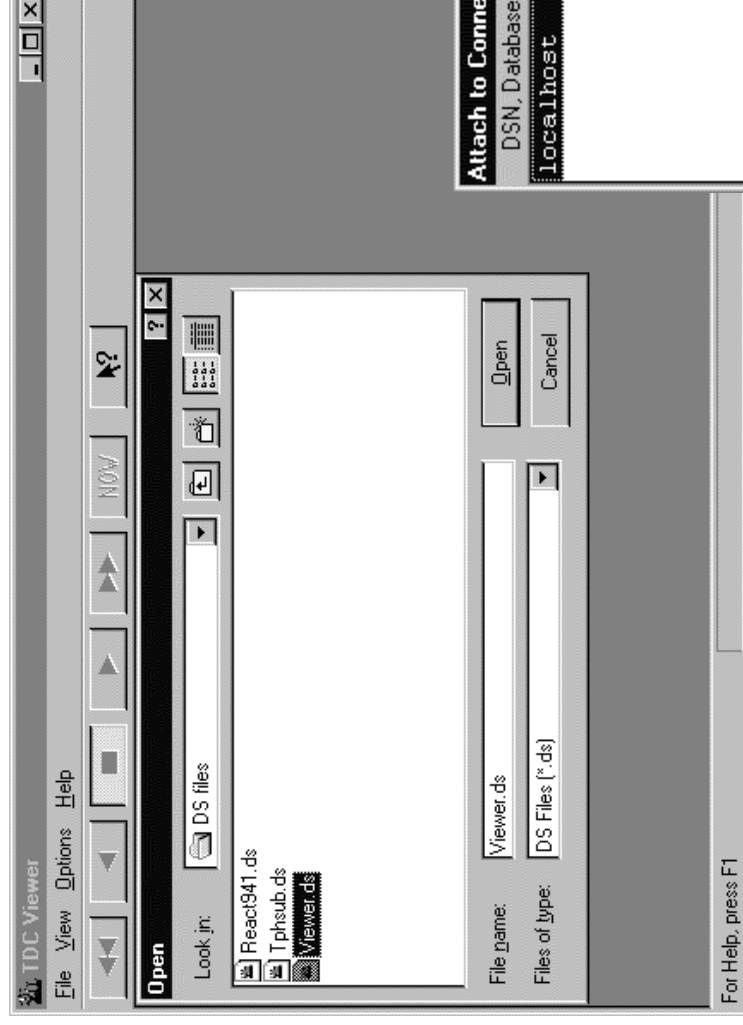
OK.

OK.

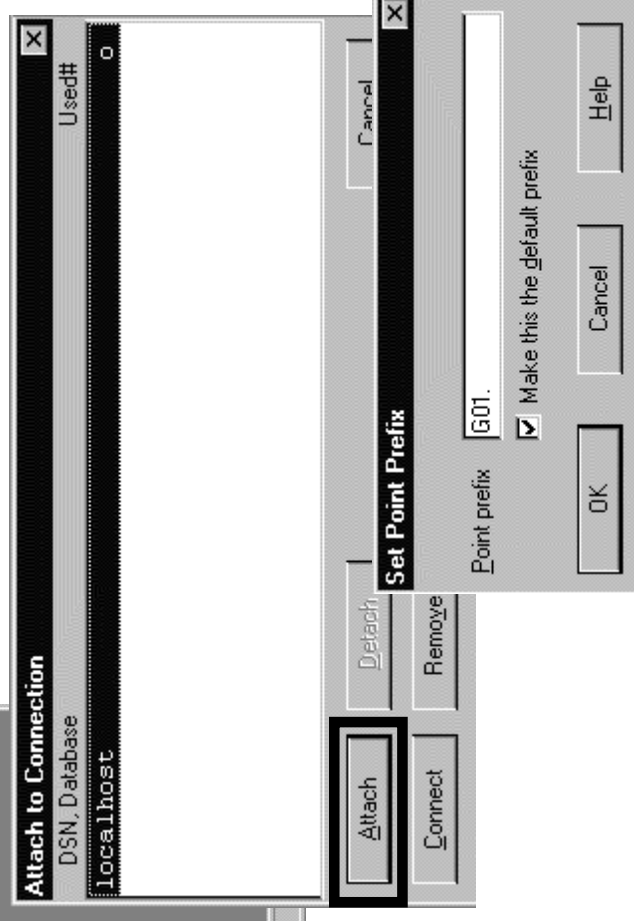


Hands-On Exercise, continued

6. Open the schematic named SCHEM1.DS.



7. Attach the schematic to the database connection.
8. Enter the prefix for your tags: Gnn.
OK.



Hands-On Exercise, *continued*

TDCViewer Log

1. You should have gotten an error message stating that two variable in the schematic do not exist in the PHD database.

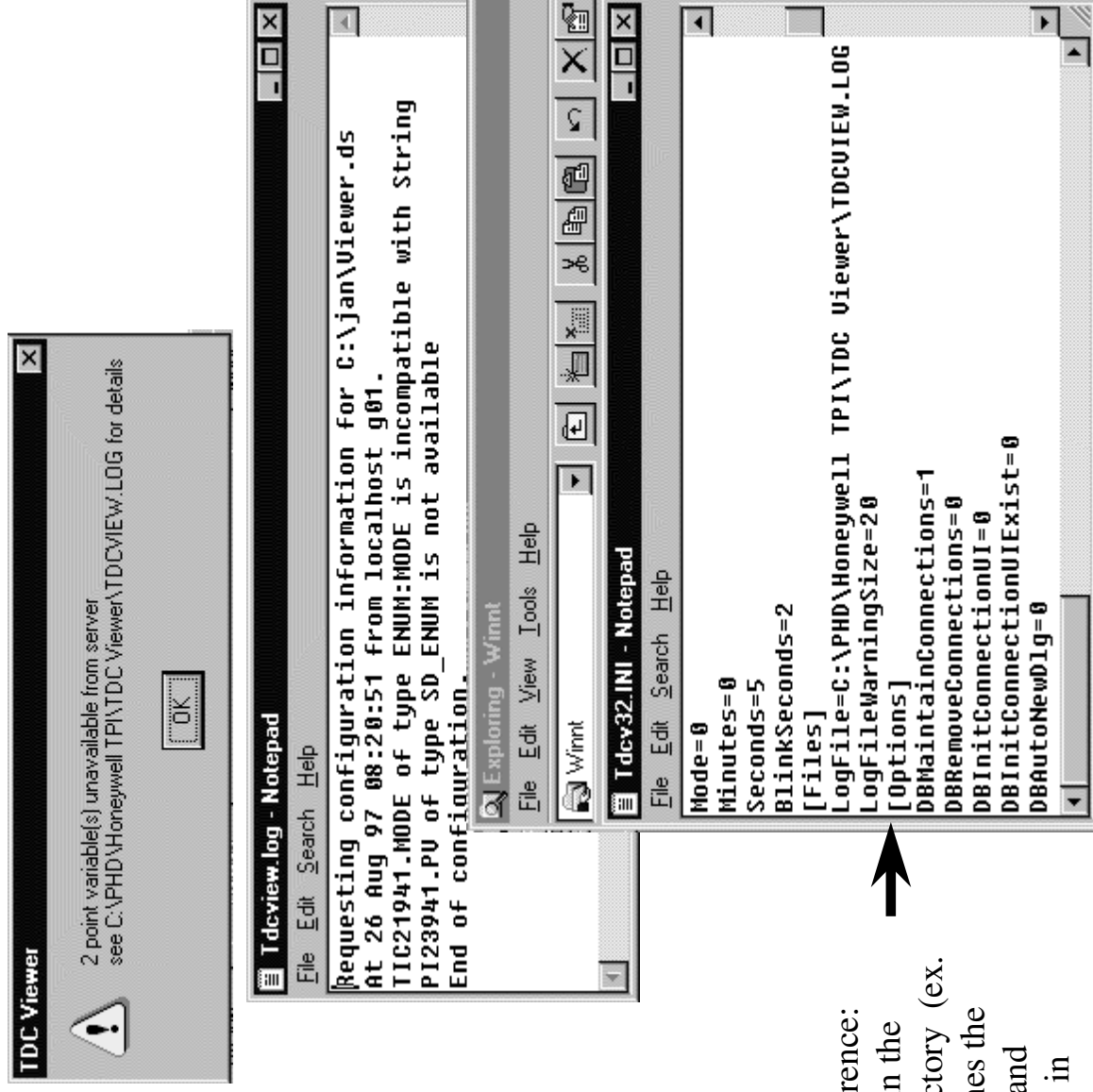
Record the location of the TDCVIEW.LOG file specified in your error message.

OK.

2. The other schematic variables should be showing the latest PHD values.

3. Open the TDCVIEW.LOG file.

For future reference:
TDCV32.INI in the
Windows directory (ex.
WINNT) defines the
log's location and
maximum size in
kilobytes.

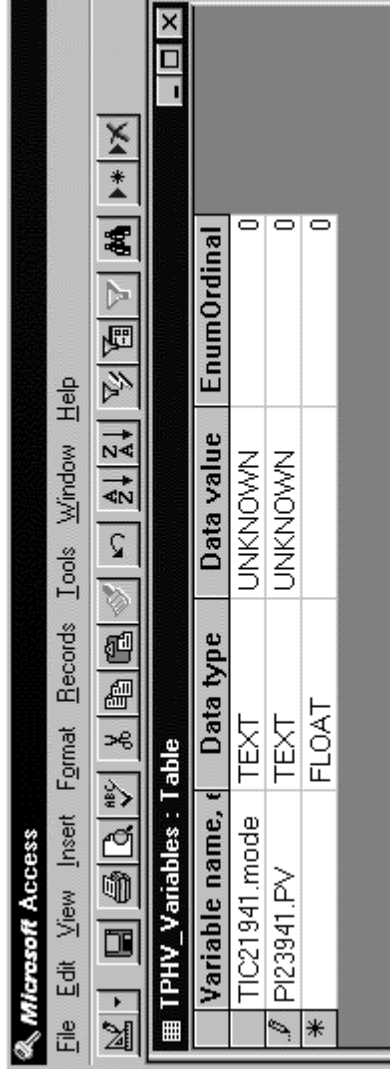


Hands-On Exercise, continued

Static Database

In this exercise, you will create a static database to replace the variables in the schematic.

1. In the TDCViewer folder, if the file SCHEM1.DSV exists, delete it.
2. Open the file in MS Access and save it as GnnSTAT.MDB.
3. Add the problem variables to the Variable table as TEXT and set their values to UNKNOWN.



4. Now open the schematic SCHEM1.DS in the TDCViewer.
5. Specify your static database for the schematic (File/Static Database/Specify/Machine Data Source).
6. It did not like your static database. Why not? Look at the log.



Hands-On Exercise, *continued*

6. Open your static database in MS Access. Open the Variable table.
7. Put your cursor in the Data Type cell to read out the legal data types at the bottom of the window.
8. Correct the Data Type for PI23941 to be ENUMERATION.
9. Return to TDCViewer. Close and reopen your schematic. Specify the database again.
10. The static value for PI23941 should be there.

Replaying History

1. Look at the history several hours ago: Options/Set Query Time.

You may get an AUTO SYNCH message:

TDC Viewer's Auto Synch feature adjusts (synchronizes) the query time you specify to the latest timestamp of the data in the PHD History database when there is no data at the time you specify.

2. Set the Fast Forward time step to one hour: Options/Set Time Step.
3. Fast Forward through the history.



Hands-On Exercise, *continued*

Trending Tags

1. Open the Process Trend application.
2. Return to TDC Viewer.
3. Select the level (ctl/click).
4. Trend/Send selected tags to trend.
5. Look at Process Trend. The tag's raw data is being trended.

END OF EXERCISE

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