

Year 2001 Training Course Schedule

Register on-line at www.skm.com or contact SKM at 310-372-0088, email LisaG@skm.com

3 Day PTW Training

Course Includes:

- Hands-on Training in Lab Environment
- Program Operation and Capabilities
- Running Studies and Interpreting Reports
- Discussion of Industry Applications
- Explanation of the Technical Data Used by the Programs
- Question and Answer Sessions

Cost:

\$750 per person plus travel and hotel

Dates - Redondo Beach, CA

January 29 - 31
April 23 - 25
July 16 - 18
October 15 - 17

4 1/2 Day Engineering Training

Course Includes:

Discussion of fault, load flow, and motor starting calculation procedures. System component models are then reviewed. Protective device coordination schemes are presented with suggested tips for sizing and setting devices. The final three days are set aside for the class to develop system designs using the PTW software.

Cost:

\$1395 per person plus travel and hotel

Dates and Locations:

March 12 - 16 Houston, TX
May 7 - 11 Allentown, PA
June 25 - 29 Orlando, FL
August 20 - 24 Denver, CO
October 22 - 26 Houston, TX

3 Day HI WAVE & I*SIM

Course Includes:

This course begins with a brief discussion of the calculation procedures and component models for harmonic analysis and transient stability. Input data requirements and the interpretation of output data is also covered.

Cost:

\$995 per person plus travel and hotel

Dates and Locations:

May 21 - 23 Allentown, PA

Power*Lines

The Newsletter for Power*Tools Software

December 2000

Happy Holidays

The SKM Systems Analysis staff would like to thank you for your support during the past year, and we look forward to working with you in the year 2001. Wishing you good health and happiness.

PTW
Version 3.8 Release

PTW
Tips

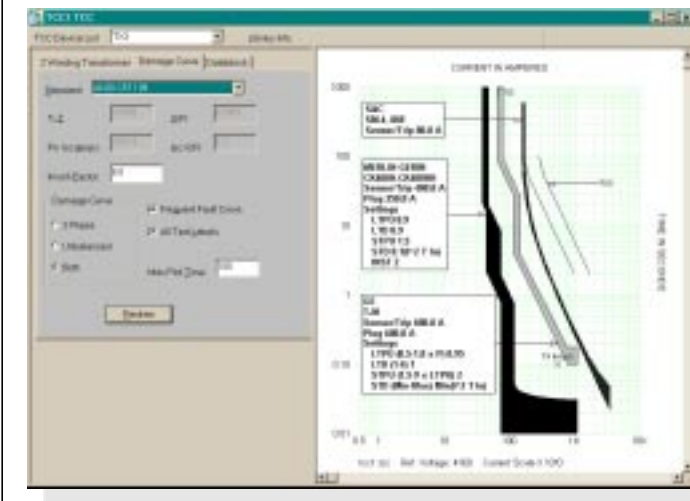
What's we're working
on for 2001

Year 2001
Training Course
Schedule

SKM
Systems Analysis, Inc.

SKM Systems Analysis, Inc. Releases Power*Tools for Windows Version 3.8

Datablocks and Textblocks



Following the graceful footsteps of the One-Line Diagram, the CAPTOR TCCs now allow the inclusion of datablocks and textblocks.

Use datablocks to show crucial device data right next to the device curves, and polish it with an explanatory textblock or two.

Crystal Reports

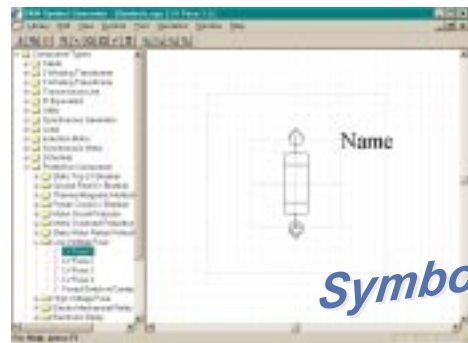
The well-known reporting tool Crystal Reports has now been incorporated into PTW. We've created a whole range of reports for all the PTW Study modules.

These reports provide high-quality formatting, and even include a powerful query feature to zero in on just the data you need.

Line	Phase	Time	Current (A)	Voltage (V)	Power (W)	Power Factor	Frequency (Hz)	Temperature (C)	Humidity (%)	Wind Speed (m/s)	Wind Direction (deg)	Pressure (hPa)
101	A	0.000	1000.0	1000.0	1000000.0	1.000	60.000	20.000	50.000	10.000	0.000	1013.250
101	B	0.000	1000.0	1000.0	1000000.0	1.000	60.000	20.000	50.000	10.000	0.000	1013.250
101	C	0.000	1000.0	1000.0	1000000.0	1.000	60.000	20.000	50.000	10.000	0.000	1013.250

SKM PO Box 3376
Manhattan Beach, CA 90266
www.skm.com
Systems Analysis, Inc.

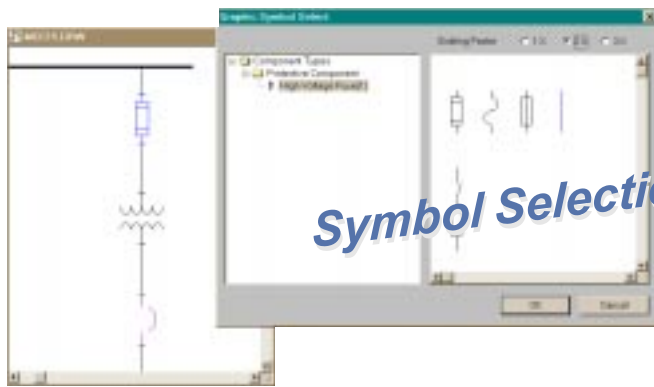
You'll never need to use a CAD program again!



Symbol Generator

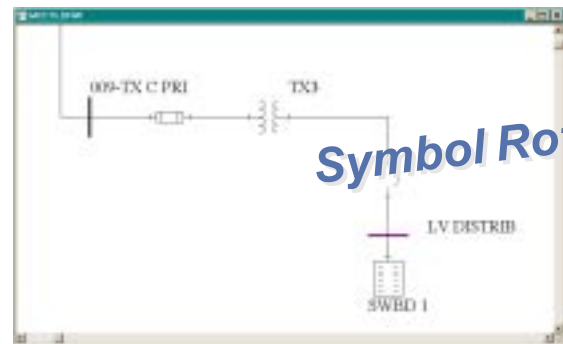
PTW's One-Line Diagram now includes features to customize almost any way you want:

- Use the Symbol Generator to draw symbols containing any combination of lines, ellipses, rectangles, arcs, and text, then use Symbol Selection to show those custom symbols on the One-Line. Even better, since these symbols are stored in a library file, you can e-mail the symbols to co-workers to maintain symbol consistency within your company.



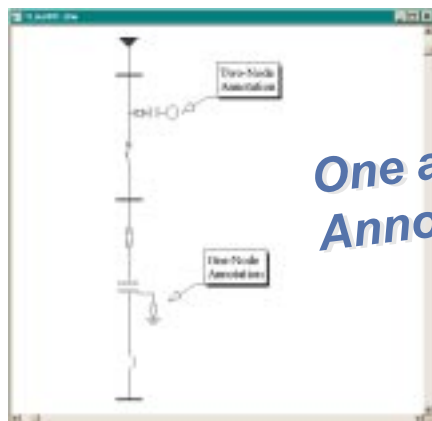
Symbol Selection

- Use Symbol Rotation to better represent the components as they actually exist in your system or to make more efficient use of space.



Symbol Rotation

- Use one-and two-node annotation symbols to create those last few markings and highlights that add AutoCAD-style polish to your One-Lines. These annotations appear in the Component Editor but don't participate in Studies, so they don't intrude upon accurate results.



One and Two-Node Annotations

PTW Tips

How do I find a component on a large one-line diagram?

If you found a component in the component editor and would like to know where the component is in the one-line drawing, proceed with the following:

1. Highlight the component name, and copy it to the clipboard, (Ctrl + C).
2. Go to the one-line diagram
3. Run a query to find component
4. The query will prompt you for the component name, use Ctrl + V to paste from the clipboard.
5. The query will highlight in blue the component you were looking for. If it does not exist on the one-line drawing, the query will also point it out.

How do I identify components in my project that are not on a one-line?

Open the one-line and use the Component>Existing menu item. A list will be generated that displays all components in the project. The components that are already on the one-line will be displayed in light gray.



The components that are not on the one-line will be displayed in black.

Modeling Bus Ties

To model a bus tie in PTW, users previously used a circuit breaker symbol in series with an impedance device such as a cable, with low impedance, as shown in Figure 1.

Now in Version 3.8, with the new Symbol selection and rotation capabilities, this is easier. You can now draw the one-line as shown in Figure 2.

To rotate symbols, simply select the symbol or group of symbols in the one-line that you wish to rotate then select one-line drop menu > symbol rotation, then select the type of rotation you wish. See Figure 3

To change the symbol, select the symbol or group of symbols in the one-line that you wish to change. Then select one-line drop down menu > symbol selection, and select the new symbol you wish to use. See Figures 4 and 5.



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

Coming in 2001 PTW Version 4.0

- Single-Phase and Unbalanced Three Phase Representation for Load Flow, Short Circuit, Load Analysis, Load Schedules and Sizing Calculations.
- System Reliability Calculations
- Ground Grid - calculates how to make an area safe from electrical shock that can be transmitted from equipment to ground (through your body) and from ground to ground (through your body) while touching equipment or walking over the area.