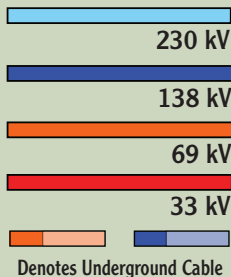


# SOS EOPS v2

## KEY



Generation &  
Max. Output

- Hydro
- Coal
- Nuclear
- Natural Gas
- Coal/Natural Gas
- Natural Gas/Petro



Substation



Substation with  
Capacitor (C),  
Reactor (R) or  
Both (B)

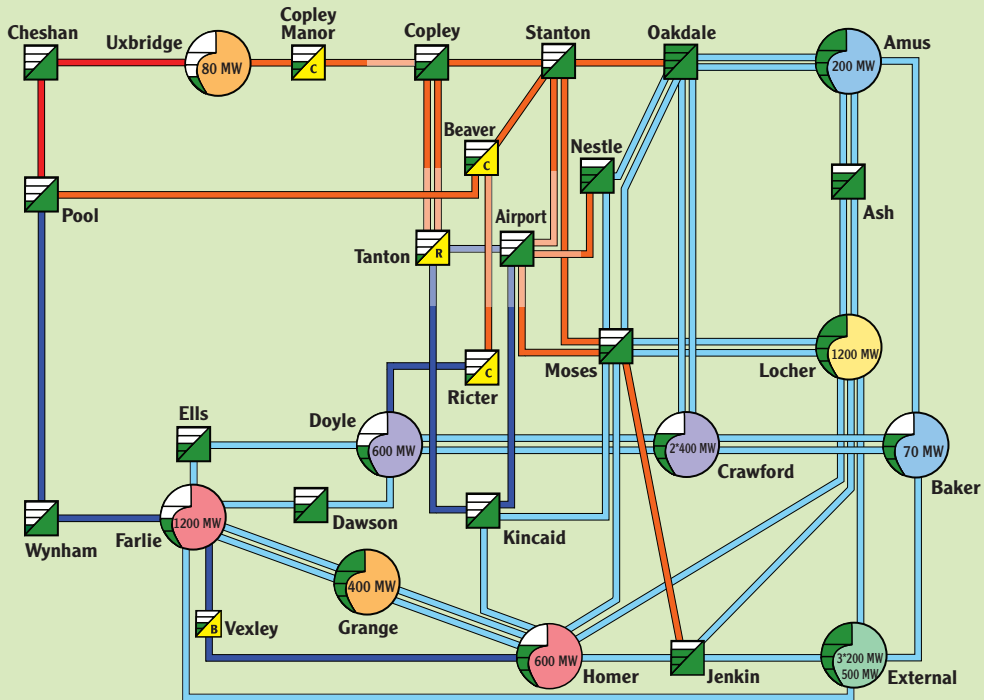


Station  
Load

6 am Values

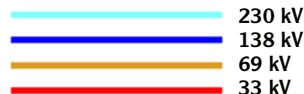
Noon Values

|          |              |              |
|----------|--------------|--------------|
| 1 Bar =  | < 50 MW      |              |
| 2 Bars = | 50 - 100 MW  | 50 - 150 MW  |
| 3 Bars = | 100 - 200 MW | 150 - 250 MW |
| 4 Bars = | > 200 MW     | > 250 MW     |

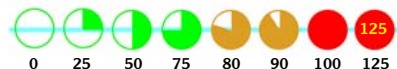


## System Map Symbols

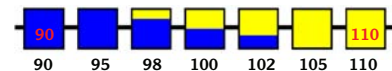
### Line Voltages By Color



### Line OSL Violation Pie Charts in Percent



### Station Symbols and Percent Nominal Bus Voltage in Percent



## EOPS Technical Support

704.752.3534 Mon-Fri 9am-5pm EST  
817-320-0585 24/7

## Reactive Resources and Other Symbols

### Generators

#### LOCATION AND CAPACITY

##### PALCO 2005:

|                 |         |       |            |
|-----------------|---------|-------|------------|
| Farlie .....    | 1200 MW | ..... | 50 MW/min  |
| Locher.....     | 1200 MW | ..... | 40 MW/min  |
| Homer.....      | 600 MW  | ..... | 20 MW/min  |
| Doyle.....      | 600 MW  | ..... | 40 MW/min  |
| Crawford 1 .... | 400 MW  | ..... | 30 MW/min  |
| Crawford 2 .... | 400 MW  | ..... | 30 MW/min  |
| Amus.....       | 200 MW  | ..... | 100 MW/min |
| Baker.....      | 70 MW   | ..... | 70 MW/min  |

##### PALCO 2007:

|               |        |       |           |
|---------------|--------|-------|-----------|
| Grange.....   | 400 MW | ..... | 30 MW/min |
| Uxbridge..... | 80 MW  | ..... | 20 MW/min |

##### EXCO

|                 |        |       |           |
|-----------------|--------|-------|-----------|
| External 4 .... | 500 MW | ..... | 80 MW/min |
| External 1 .... | 200 MW | ..... | 80 MW/min |
| External 2 .... | 200 MW | ..... | 80 MW/min |
| External 3 .... | 200 MW | ..... | 80 MW/min |



### Phase Shifters

Location: Farlie  
Control through Tables >Phase Shifters



### Shunt Capacitors

Location: Beaver  
Copley Manor  
Ricter  
Vexley

Info. located in Tables >Shunts >Capacitors



### Shunt Reactors

Location: Tanton  
Vexley

Info. located in Tables >Shunts >Reactors



### Static Var Compensators

Location: Vexley  
Info. located in Tables >Shunts >Static Var Compensators

## Miscellaneous Equipment



### Transformers

Information located in Tables >Transformers>Summary  
Overload Warnings at OTS >Equipment Limit Violations >Winding MVA  
Left Click: Change tap settings, and min/max kV range regulation.



### Breakers

Left Click: Open/Close Breaker  
Right Click: Calls up Synchroscope



### Loads

Information located in Tables >Loads >Feeder Summary  
LEFT CLICK: Load information  
Enable/Disable Feeders  
Modify non-conforming load.



### Line ends:

LEFT CLICK: Travel to adjacent station.  
RIGHT CLICK: Calls up line end information.

### Voltage:

Voltage Warnings at OTS >Equipment Limit Violations >High/Low Voltage

System Operations Success Intl Preparing Energy Professionals for Tomorrow

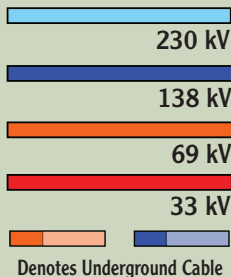
**www.sosintl.com** 877.SOS.INTL • 704.752.3534 tel • 704.752.6455 fax  
SOS Intl Suite 314, 13950 Ballantyne Corporate Place, Charlotte NC 28277-3519



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