Load Not Changing During Annual Simulation

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Question

I tried to get the results by loading an array of multiplier for a load shape with a simple circuit but I am getting an output DI file that has got the same KWh values for all the 24 intervals. Here is how I defined my load:

```
...
new load.load1 bus1=LoadBus phases=1 kv=12.47 kw=1000.0 pf=0.95 model=1 class=1 yearly=year daily=d
...
```

Answer

By declaring the Load object to be "status=fixed" all load multipliers including loadshape multipliers are ignored. The default is "status=variable" which is what you want in this case. Also, I don't see a 'year' load shape defined so let's just use the 24-hour 'day' shape for the yearly shape. It'll just repeat over and over if you do an entire year. Here is how I would declare the load.

```
new load.load1 bus1=LoadBus phases=1 kv=12.47 kw=1000.0 pf=0.95 model=1 class=1 yearly=day
```

The "status=fixed" property is for loads that are assumed to be constant hour-after-hour and do not follow loadshapes or global multipliers such as the option "set loadmult=0.7", for example. The load remains constant at the kW and kvar values specified. The load does incorporate the 'model' property value. So the load will vary with voltage, but not with time.

--Rdugan 19:12, 19 October 2010 (UTC)

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