



AUTOMATIC PARALLELING SWITCHGEAR & COMPUTERIZED CONTROLS @ TEMPLE UNIVERSITY

At Temple University, an Enercon custom engineered and built computerized control system monitors and provides continuous status reports on ten natural gas fueled tandem engine generator sets. These units provide 16 megawatts of power for peak shaving and emergency standby power. Each tandem unit consists of two 16 cylinder engines rated at 800 kw @ 1,200 rpm.

Enercon also custom designed and built utility approved switchgear which will allow the units to run in parallel with each other and the local utility. A pair of transformers boost the voltage from 4,160 v to 13,200 v and computerized monitoring systems, also designed by Enercon, monitor the entire system and provide continuous status reports.



SPECIFICATIONS:

ENGINES:

- 10 sets of tandem 16 cylinder engines rated @ 800 kw @ 1,200 RPM
- Natural gas fueled
- Sound attenuated to 56dB(A) @ 1 meter

GENERATORS:

- 16 megawatts total power, 4,160 volts

CONTROLS & SWITCHGEAR:

- Medium voltage switchgear on 2 separate busses w/5 generators on each buss
- Continuous computerized monitoring
- Output voltage transformer boosted to 13,200 volts
- Single switch initiation of fully automatic paralleling
- Fully redundant backup system including manual paralleling and load control

