

48 10 00 Electrical Power Generation Equipment

Revision 01/04/2019

Purpose:

The Architect and/or Engineer shall incorporate the Rice specific requirements indicated in this standard's section into their design. The Architect and/or Engineer shall further produce project specifications in line with industry standards that are updated to reflect these Rice specific requirements.

1. Central Plant – Cogeneration

- a. Currently the University only has cogeneration capabilities at the Central Plant. This consists of two natural gas fired turbine generators with Heat Recovery Steam Generators.
- b. The South Plant was constructed to accommodate a future cogeneration gas fired turbine with a heat recovery steam generator.

2. Emergency Generators

- a. In non-lab buildings, emergency generators are primarily designed for Life-Safety purposes only.
- b. In lab buildings, emergency generators are often both Life Safety and Stand-by power. Stand-by power may serve laboratory refrigerators, freezers, key research equipment, etc.
- c. Emergency generators on Campus may be diesel or natural gas fired.
- d. Emergency generators may be installed indoors or outdoors in sound attenuated enclosures.

3. Solar Generation

- a. The use of solar generation on future projects will be based on aesthetics and economic feasibility as determined by the Design Subcommittee and Steering Committee for a project.