

MINOR REVISION

Modify *Division 26, 26 00 01 Owner General Requirements and Design Intent* per the following (deletions are shown struck through and additions are double underlined). Remainder of section is unchanged.

.01 General

A. Service Voltage

1. At University Park, service shall be provided from the 12,470V distribution network whenever possible. The 4,160V network may be used where adequate capacity exists with approval of ES (Engineering Services).
2. At other locations, services may be provided by a local utility or the campus distribution network as appropriate. Details will be provided by Engineering Services.
3. Identify any medium voltage (600V and greater) raceway system within a building by painting it red in its entirety.

B. Building Voltages

1. For loads greater than 750kVA, consider 480Y/277V distribution with 208Y/120V step down transformers for receptacles and other 120V loads.
2. Step down transformers shall be located in rooms with adequate fire ratings and transformers connected for sound isolation using flexible conduit, isolation pads and when supported from the building steel, spring hangers.

C. Utility Demand and Consumption

1. The Design Professional shall complete the [Utility Demand and Consumption](#) form on all projects. It is used to inform the University of the impact on the distribution system capacity. Submit to Engineering Services at the Preliminary Design review submission and at the Final Design submission.

D. Building or Facility Electrical Load Determination

1. The Design Professional shall complete the [Electrical Load Determination](#) form for all projects that involve new buildings, major renovations, new electrical services or electrical service upgrades. It is used to inform the University of the impact on the distribution system capacity and the building or facility's distribution system. Submit to Engineering Services at the Preliminary Design review submission and at the Final Design submission. Prepare a separate copy of the form for three types of power; Normal, Emergency and (if required) Standby power.

E. Specification Editing

1. Generally, use the "listed manufacturers" option in lieu of "available manufacturers." Confirm any manufacturer preference with Engineering Services.
2. Note at least 3 manufacturers, unless otherwise approved by Engineering Services. Publicly funded projects require equals unless a formal exception has been granted by the State.
3. Confirm Requirement for extra materials with Engineering Services. Typical items to provide are occupancy sensors, specialty luminaire lenses, fuses, indicating lamps, and enclosure keys.
4. First edit of specifications shall use "strike-through" instead of actually deleting items to be removed. This will allow Engineering Services to see what is to be deleted rather than search for what is missing.
5. Create an Excel spreadsheet list of spare parts, etc. that are to be turned over to PSU at substantial completion (based upon the final contract documents).

6. Data Sheet Instructions:

- a. Engineer completes “SPEC DATA” column with information about equipment including but not limited to ratings, features and options. The data sheet is then submitted with completed specifications for bid.
- b. Manufacturer completes “VENDOR DATA” column and returns completed data sheet with bid or submittal.
- c. Engineer verifies that design specifications have been met by checking that specified features match submitted features.
- d. [Click here for Data Sheet Completion Instructions.](#)

F. Mounting Heights

1. Heights are measured to device centerline, unless otherwise noted.
2. Mount switches, card readers, and similar devices at 44” AFF.
3. Mount receptacles and similar wiring devices at 18” AFF.

G. National Electric Code (NEC)

1. Any exceptions taken while using the latest edition of the NEC shall only be used with the express approval of Engineering Services.

END of revision

Update Commentary:

Section was updated primarily for the following reasons:

- 1) *Added data sheet instructions in preparation for addition of new data sheets throughout standards.*