

PART III – CSU FACILITIES PLANNING, DESIGN AND CONSTRUCTION STANDARDS

DIVISION 26 – ELECTRICAL Updated 2021 – Modified for HDS

Please also refer to “Part IV – REGULATORY REQUIREMENTS” for additional requirements.

Housing and Dining Facilities (HDS) has adopted amendments for all HDS facilities. Confirm applicable standards with Project Representative on a per Project basis.

DIVISION 26 – ELECTRICAL

26 05 19 – LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

PART 2 PRODUCTS

A. Products Not Permitted:

5. HDS: Plug-in prefabricated modular wiring devices such as Lev-lock, Plug-in-Play.

PART 6 EXECUTION

E. Locations for Outlets:

1. Provide electrical outlets of 115 volt, 20 amps at the following locations:
 - d. HDS - Two separate duplex outlets shall be provided in all janitor closets.
2. Convenience outlets should be located at approximately 40-foot intervals in corridors and located at stair landings to accommodate cleaning equipment. Outlets should also be located near office doors where they won't be covered by furniture.
 - a. HDS – Convenience outlets should be located at approximately 25-foot intervals in corridors and located at stair landings to accommodate cleaning equipment.

26 09 23 – LIGHTING CONTROL DEVICES

PART 1 GENERAL

3. Private offices, open office areas, conference rooms, laboratories, commercial kitchens, restrooms, classrooms, break rooms, custodial closets, storage rooms, electric rooms and mechanical rooms shall be controlled by stand-alone Systems. This shall make these Systems easier to maintain.
 - b. HDS – Residential dwelling and sleeping units, private offices, open office areas, conference rooms, laboratories, commercial kitchens, restrooms, classrooms, break rooms, janitor closets, storage rooms, electric rooms and mechanical rooms will be controlled by stand-alone systems.

PART 3 EXECUTION

A. Lighting Control Method by Room Application - In general, the following room types shall be controlled as follows:

17. Residential Sleep and Dwelling Units

- a. HDS: Manual on, Manual off

18. Study Room

- a. HDS: Standalone vacancy sensor (Manual On, Auto Off), typically dual technology
- b. HDS: Exception: If the switch is not readily accessible by the entrance, an occupancy sensor is acceptable.

26 24 16 – PANELBOARDS

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PART 2 PRODUCTS

B. Panelboards:

8. HDS: All lighting and power panels will be specified to provide minimum of 30 percent spare breaker space. Residential sleeping and dwelling units shall have 10 percent spare breaker space, but no less than two spare breakers.

C. Metering:

3. HDS: For all buildings with multiple uses, sub-meter building areas into Housing, Dining, Academic/Classroom and Administration sections
 - a. Include large unitary equipment on sub-metering.

26 32 13 – ENGINE GENERATORS

Please also refer to “Part IV – REGULATORY REQUIREMENTS” for additional requirements.

PART 1 GENERAL

A. Generators shall be either natural gas or diesel generator sets.

1. Verify with FM Engineering which fuel source is preferred depending upon the location.
 - a. HDS: Generators shall be natural gas.

B. Sound Limitations:

3. Also, submit certification from the Manufacturer stating that the sound emissions meet the Specification.
 - a. HDS: The noise generated by the installed generator set operating at 100% load shall not exceed level 3 hospital grade.

PART 2 PRODUCTS

B. BAS Alarms:

1. Provide a dry contact for the following alarms:
 - d. HDS: Provide tie-in back to HDS Facilities Control Shop.

E. Products Not Permitted:

1. HDS: Generac

26 33 53 – STATIC UNINTERRUPTIBLE POWER SUPPLY

PART 1 GENERAL

A. Uninterruptible Power Supply (UPS):

4. HDS: Provide communications link back to CSU Housing and Dining Services Facilities Control Shop.

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B. Flywheel:

3. HDS: Flywheels not allowed

4. Batteries

a. HDS: Batteries shall be sized to meet local requirements and approved by Housing and Dining Services Facilities.

26 51 00 – INTERIOR LIGHTING

PART 2 PRODUCTS

B. Use of LED Luminaires:

2. To ensure that quality luminaires are specified, LED luminaires shall meet the following minimum requirements.

f. LED luminaire output shall be a 3500K color temperature and minimum Color Rendering Index (CRI) of 80.

ii. HDS: All areas withing dining facilities and fire towers shall be a 4000k color temperature and minimum Color Rendering Index (CRI) of 80.

iii. HDS: All residential areas should be 3500k with the CRI of 80.

END OF DIVISION