SECTION 26 28 03

SOLAR PV DISCONNECTS

PART 1 - DESIGN DIRECTIVES

1.1 This Section covers - Disconnects for Solar Photovoltaic Power Sources/Systems Mounted on Buildings:

1.2 DESIGN CRITERIA

A. A permanent plaque or directory shall be installed at the building main electrical disconnect and at each feeder and/or source disconnects. The plaque or directory shall denote all locations of disconnects of sources, feeders and/or branch circuits supplying or passing through the building. The plaque or directory shall identify – the location of all other disconnects, the source of power and the source location, and the equipment served. (Per NEC 705.10 and 225.37)

B. PV System Disconnecting Means shall be located in an area/room accessible only to authorized persons (ie., Dartmouth College FOM staff) only. (Dartmouth College requirement)

C. PV System Disconnecting Means (per NEC 690.13) or Disconnect Device (per NEC 705.22) shall be a shunt-trip breaker. (per NEC 690.12 (C))

D. The shunt-trip breaker shall be provided with an emergency-off button located at the following locations:

1. The Fire Alarm first response location (adjacent to the annunciator or control panel at building entry).
2. In the main electric room, within sight of the building's main electrical disconnect. Exception – where the solar PV feeder originates at the same switchboard as the main electrical disconnect.

E. The emergency stop button shall be located in a locked box; the box shall be recessed in finished spaces.

F. The key shall be a CAT-30.

G. The emergency stop button shall be push-to-off/pull-to-reset; not a momentary contact.

PART 2 - PRODUCTS

2.1 MATERIALS

END OF SECTION