PART 1 GENERAL

1.01 SECTION INCLUDES
A. Liquid-filled pad-mounted distribution transformers.

1.02 SUMMARY
A. This standard includes Medium Voltage Transformers used for electrical distribution.
B. The intent of these standards are to provide input to the design team on the University's preference of manufacturers, design, equipment options, and quality assurance to maintain the longevity of its assets.

1.03 REFERENCE STANDARDS
A. NFPA 70 - National Electrical Code; National Fire Protection Association; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 DESIGN REQUIREMENTS
A. Basis of Design: Square D
B. All transformer vaults shall be provided with emergency lighting originating with the building emergency lighting system.
   1. The emergency lights shall be unswitched, and not on a timer.
C. All distribution transformers shall be dead-front, liquid filled.
   1. All new transformers and services shall be 12470 volt primary unless specifically approved by the City of Newark.
   2. If approved for 4160 volt primary, all new transformers shall be dual-wound for 12470 volt for possible future voltage change.
   3. All transformer coils shall be copper wound.
D. All pad mount transformers shall be loop feed with internal lightning arrestors, and provided with 5 point hex head closure bolts on the primary, and secondary compartment doors.
E. All transformer vaults shall be grounded and bonded.
   1. A ground rod shall be driven thru the bottom of the vault to ground.
F. Refer to SPCC requirements applicable to transformers.
G. Dry type transformers are not permitted outdoors.

1.05 SUBMITTALS
A. Product Data: Provide electrical characteristics and connection requirements, standard model design tests, and options.
B. Manufacturer’s Installation Instructions.
C. Maintenance Data: Include maintenance instructions for cleaning methods; cleaning materials recommended; procedures for sampling and maintaining fluid.

PART 2 PRODUCTS

2.01 MANUFACTURERS
A. Basis of Design: Square D
   2. Schneider Electric; Square D Products: www.schneider-electric.us.
   3. ABB: www.abb.com

END OF SECTION