1 Specifications

1.1 Standards

1.1.1 NEMA TP-1
1.1.2 NEMA Premium
1.1.3 DOE CSL-3 efficiency
1.1.4 Transformers should be rated for no more than a 115°C temperature rise
1.1.5 Transformer sound level shall be guaranteed not to exceed NEMA standards

1.2 Transformer shall have primary voltage taps.

1.2.1 Provide a minimum of 4 at 2-1/2% steps
1.2.2 2-FCAN and 2-FCBN

1.3 Termination compartments.

1.3.1 Indoor type shall be Extra large
1.3.2 Exterior type shall be equipped with “Drip-proof” weather shield.

1.4 Transformers shall have electrostatic shielding when specified.

1.5 Insulation System

1.5.1 220°C
1.5.2 Either VPI (Vacuum Pressure Impregnated) or immerse core and coil assembly in a UL recognized 220°C varnish.

1.6 Cores

1.6.1 Steel laminated cores

1.7 Windings

1.7.1 Primary and Secondary windings shall be either copper or aluminum based on the recommendation of the A/E and AFC (Arc Flash Consultant).

2 Installation

2.1 Transformer core to be visibly grounded to frame.
2.2 Do not install below mechanical systems that could leak unless a “Drip-proof” weather shield is specified
2.3 Do not stack transformers one above the other
2.4 Transformers shall be supplied with a heavy duty safety switch, appropriately sized for the primary side. The disconnect switch shall be installed within sight of the transformer.

3 Approved Manufacturers

3.1 ABB
3.2 ACME
3.3 GE
3.4 Siemens
3.5 SOLA HEVI-DUTY
3.6 Square D (Sorgel)
3.7 Jefferson Electric