SECTION VI - TECHNICAL SPECIFICATIONS

GROUNDED WYE CAPACITOR BANKS

1.0 GENERAL

Requirements of General Specifications applicable to Banked Rack Mounted Distribution Capacitors apply to all work under this specification. Nominal system voltages are: 2400/4160 volts, 7620/13200 volts and 15,240/26,400 volts grounded wye.

2.0 CAPACITOR BANK RATINGS

ITEM ID KVAR BIL TYPE SWITCHES

2400/4160 VOLTS, SINGLE BUSHING, FIXED

CAP BA 004	150	95	GROUNDED	0
CAP BA 005	300	95	GROUNDED	0
CAP BA 006	600	95	GROUNDED	0

2400/4160 VOLTS, TWO BUSHING, SWITCHED NEUTRAL

CAP BA 007	150	95	UNGROUNDED	4

7620/13200 VOLTS, TWO BUSHING, SWITCHED

CAP BA 009	300	95	GROUNDED	3
CAP BA 010	600	95	GROUNDED	3

15,240/26,400 VOLTS, TWO BUSHING, SWITCHED

CAP BA 001	1200	125	GROUNDED	3
CAP BA 002	600	125	GROUNDED	3

15,240/26,400 VOLTS, TWO BUSHING, SWITCHED NEUTRAL

CAP BA 003 1200 125 UNGROUNDED 4

15,240/26,400 VOLTS, TWO BUSHING, CONTROLLABLE

CAP BA 011	300	125	GROUNDED	3
CAP BA 012	1200	125	GROUNDED	3

3.0 CAPACITOR UNITS

3.1 The following lists the type and quantity of units used in each bank assembly.

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CAPACITOR BANK	CAPACITO	OR UNIT
ITEM ID	ITEM ID	<u>QUANTITY</u>
CAP BA 001 CAP BA 002	CAP UN 005 CAP UN 005	<mark>6</mark> 3
CAP BA 003 CAP BA 004	CAP UN 005 CAP UN 006	6 3

CAP BA 005	CAP UN 007	3
CAP BA 006	CAP UN 008	3
CAP BA 007	CAP UN 009	3
CAP BA 009	CAP UN 016	3
CAP BA 010	CAP UN 016	6
CAP BA 011	CAP UN 029	3
CAP BA 012	CAP UN 005	6

3.2 See technical specifications for Rack Mounted Capacitor Units for individual unit ratings and dimensions.

4.0 SWITCHED BANKS

4.1 Each rack assembly shall be complete with oil switches, designed for capacitor switching using a hook-stick.

4.2 RATINGS

Each switch shall be single phase and single pole. The switch shall be capable of breaking a three-phase, 60 hertz load as indicated below.

UNIT	KV CLASS	BIL	<u>AMPS</u>
CAP BA 001	34.5GRD Y/19.9	125	60
CAP BA 002 CAP BA 003	34.5GRD Y/19.9 34.5GRD Y/19.9	125 125	60 60
CAP BA 007	24.9GRD Y/14.4	95	200
CAP BA 009 CAP BA 010	24.9GRD Y/14.4 24.9GRD Y/14.4	95 95	200 200

4.3 BUSHINGS

Bushings shall be similar to those of the capacitor units in order to maintain the BIL rating.

4.4 TERMINALS

The terminals of each switch shall accommodate conductors up to and including size 2/0 and shall include insulated terminal covers.

5.0 CONTROLLABLE BANKS

5.1 VACUUM SWITCHES

Cooper vacuum switches, #VCS1 shall be used.

5.2 TERMINAL BOX

A prewired terminal box shall be included on the rack including necessary receptacles for the current monitoring insulator and meter socket control cable terminations (male or female plug/socket).

5.3 CURRENT MONITORING INSULATOR

The current monitoring insulator shall be a lindsey #9670 / C10C0 with a 15 foot lead including cannon plug.

Also including #2121 - vertical clamp adapter #2120 - horizontal clamp adapter #2004 - Horizontal Mounting Base "Live Line" trunion clamp for 636AAAC #9602 - Clamp Mounted Choke #2040 - Line Post Mounting Stud.

5.4 METER SOCKET

A Cooper meter socket, #CSB1A, shall be included.

5.5 CONTROL CABLE

A Cooper control cable, #CSCC11, shall be included.