

NOVEMBER 21, 1986

SUBJECT: PROP NO. 647-85342

REF: BALL STATE-EDWIN F. BALL

1500-KVA;
TYPE OA, THREE PHASE, 60HZ PADMOUNT;
12470 DELTA PRIMARY 95 KV BIL;
TWO 2 1/2% TAPS ABOVE AND BELOW PRIMARY RATING;
480Y/277 SECONDARY; STANDARD OICLF FUSES & STD EXP. FUSES;
400AMP, LOAD BREAK, FEEDER SELECTOR OIL SWITCH;
6-200 AMP GE BUSHING WELLS, LOOP FEED, ANSI PART 1;
(6) GE 15KV LOAD BREAK SWITCH MODULES CAT. #9UO2AAB001;
DRAIN VALVE, THERMOMETER, OIL LEVEL GAGE PROV. FOR VAC/PRESS GAGE;
(3) 9/10KV INTERNAL ZINC OXIDE ARRESTERS-IAL;

1-EXCEPTION TO NON FLAMMABLE OIL.

WE PROPOSE TO FURNISH OUR TYPE 1 INSULATING OIL WITH HIGH FIRE AND
FLASH POINT (MIN-145C) AS DESCRIBED ON PAGE 2 OF OUR PUBLICATION GEA
11080 ENCLOSED.

2-DRY WELL FUSING NOT AVAILABLE AT THIS RATING.

WILL FURNISH OICLF FUSING PER ATTACHED DESCRIPTION ETC.

3-DEAD FRONT--6 WELLS & 6 INSERTS

4-UNDER OIL ARRESTORS--3 ONLY NEEDED UNDER OIL

COMPAD Options

Tailored to meet a broad range of customer application requirements.

Bayonet Fusing

1 The General Electric BAYONET fusing device is an externally removable fuseholder available with either a fault-sensing or an overload-sensing expulsion fuse. The fuseholder is hotstick operable and is capable of breaking transformer load current.

Fuses are removable without lifting hood. An oil drip shield is provided as a standard feature.

Non-Loadbreak Dry-Well Current-Limiting Fuseholder

2 This feature combines the proven interrupting capability of general purpose, current-limiting fuses in air-insulated, oil-sealed, dry-well fuseholders. These fuseholders are available on both live- and dead-front equipment, and are easily operable with a hotstick. The non-loadbreak fuseholder assembly has an integral warning notice and safety baffle to warn against removal of the fuse while transformer is energized. The non-loadbreak fuseholders can also be mechanically interlocked with a loadbreak switch (as shown).

Once transformer is DE-ENERGIZED by operation of loadbreak switch, safety baffle can be moved, permitting easy access to fuses.

Non-loadbreak fuseholders are available at maximum voltage ratings of 8.3, 15.2 and 21.1 kV, and with impulse withstands of 95-, 125-, and 150-kV BIL.

Loadbreak Dry-well Fuseholder

3 This fuseholder is similar to the non-loadbreak model with the addition of an integral loadbreak switching device. The switching device utilizes the rod and bore principle to accomplish loadbreak within the fuseholder. This is the same loadbreak principle used in loadbreak terminations and the materials used were developed for the GE SURE MAKE[®] terminations. Available ratings are 8.3 kV (maximum) at 95-kV BIL and 15.2 kV (maximum) at 125-kV BIL.

Internal Expulsion Fuses

4 These expulsion links isolate a transformer from the system in the unlikely event of a transformer failure. They are located under oil beneath the transformer handhole. A baffle arrangement is provided to prevent debris (during fuse operation) from entering the core and coil.

Oil Submersible Protector (OSP)

5 The OSP is a partial range current-limiting fuse that is used in series with an expulsion fuse to provide full range

protection. The OSP clears high current faults and the expulsion link clears low current faults. These fuses are located under oil beneath the transformer handhole. Either internal expulsion fuses or BAYONETs are available as the series expulsion fuse.

External Tap Changer

6 When taps are specified, standard construction used on COMPAD transformers is to provide a control handle brought through the front plate for external operation when the transformer is DE-ENERGIZED. When taps are specified on series-multiple voltages, taps are supplied on the high-voltage series connections only.

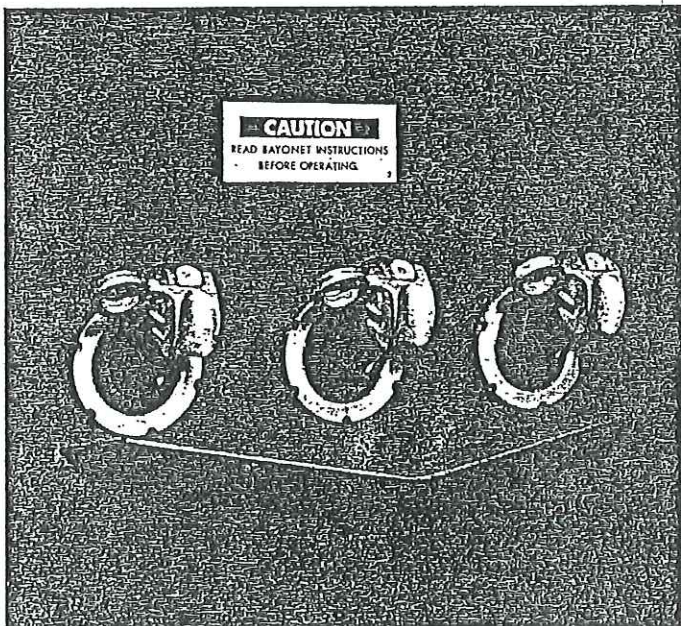
The control handle is normally located in the high-voltage compartment. It may be operated by a socket wrench, open end wrench or a standard hook stick. Attached to the operating handle is a position indicator with a captive locking bolt which prevents accidental operation of the switch.

All three phases are operated simultaneously, being joined by a common operating shaft.

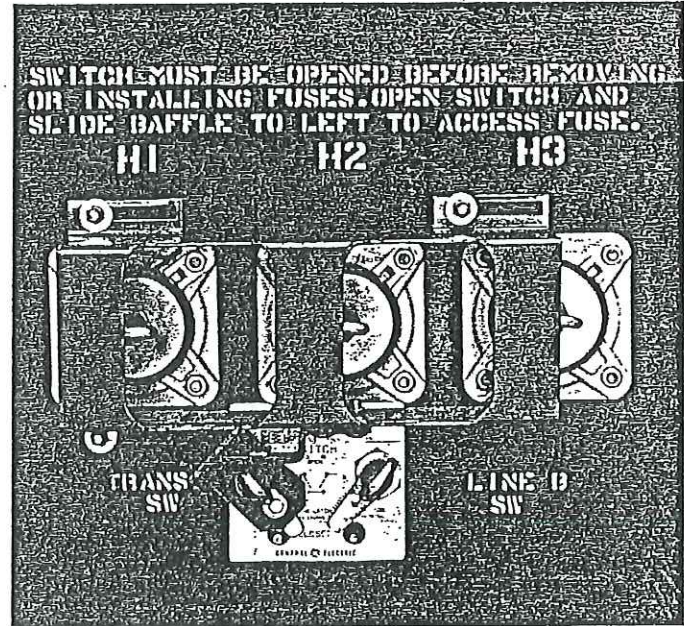
TRANSFORMER FUSING

9F54WLD303

9F59TCD150



1 Bayonets with standard drip shield design to contain oil.



2 Non-loadbreak dry-well fuseholders with baffle and switch interlock in closed position.