NRC Medium Voltage Circuit Breaker Training

CHAPTER 4

CIRCUIT BREAKER CUBICLE

Learning Objectives

- Understand the components of the cubicle.
- Understand the function of the shutter assembly
- Describe the positions of a breaker during the racking operation
- Understand and explain the test position.
- Explain the function of the truck-actuated switch (TOC)
- Understand the operation of the mechanism operated Switch (MOC)

WHY CIRCUIT BREAKERS ARE REMOVABLE

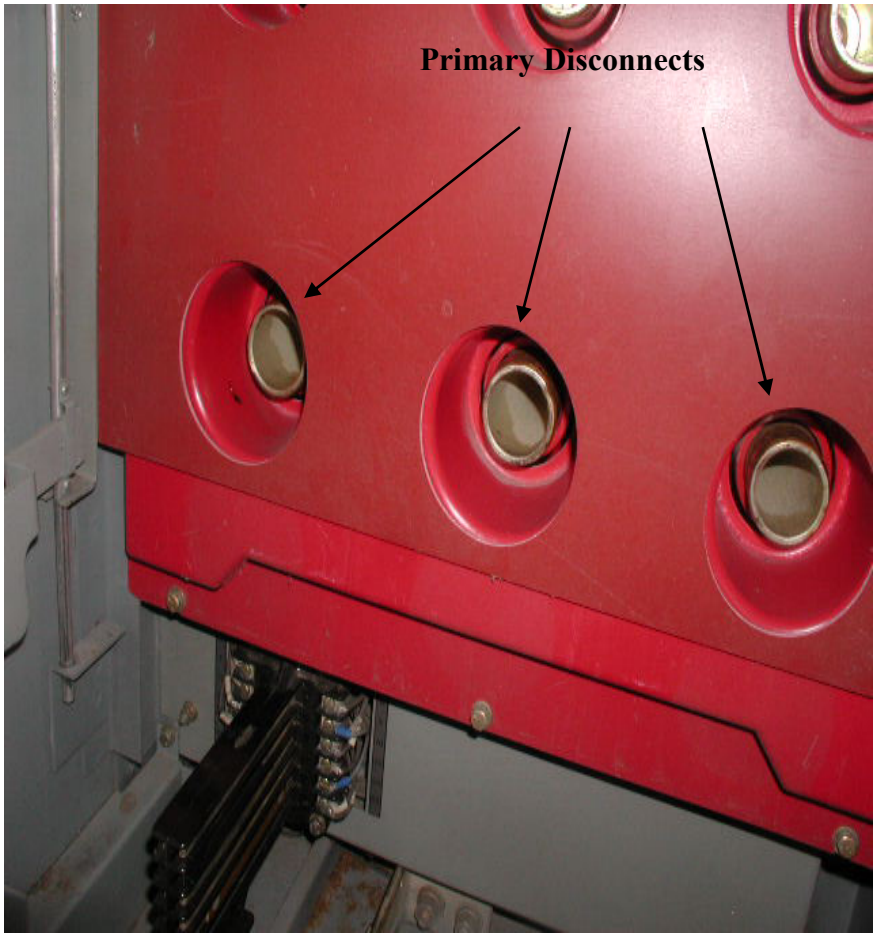
- The circuit breaker is removed from the cubicle to allow for the complete isolation of loads from sources, for personnel safety during component maintenance, and for repair.

Ground Truck

MEDIUM VOLTAGE BREAKER CELL COMPONENTS

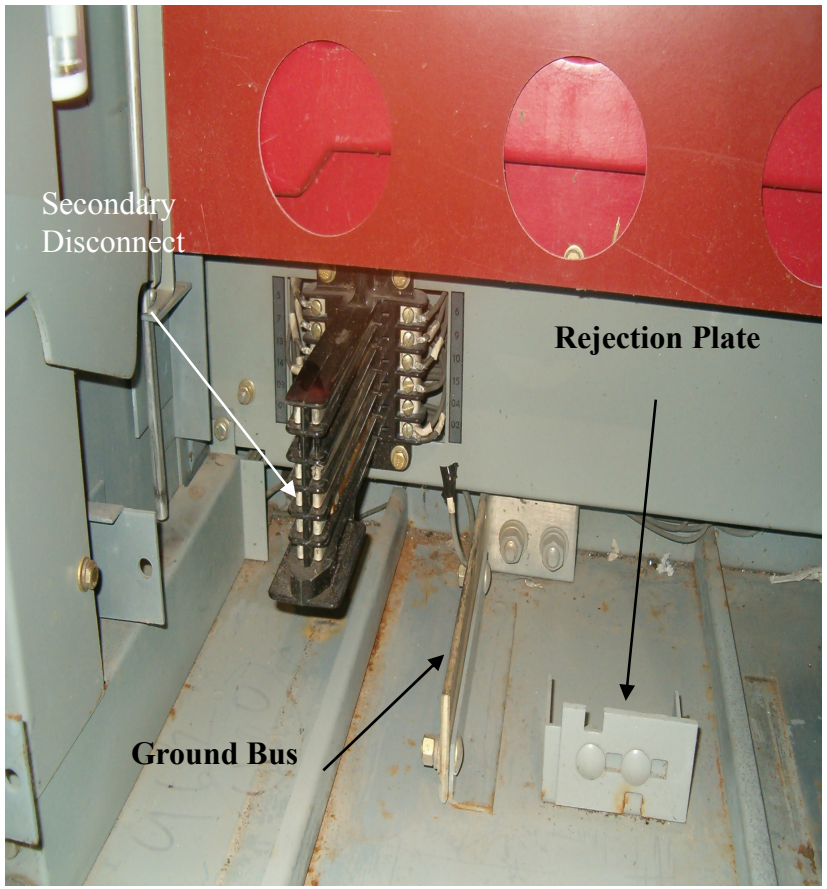
- **Racking Shutter**

MEDIUM VOLTAGE BREAKER CELL COMPONENTS



- Primary Disconnects

MEDIUM VOLTAGE BREAKER CELL COMPONENTS



- Secondary Disconnects
- Ground Bus
- Rejection Plate

MEDIUM VOLTAGE BREAKER CELL COMPONENTS

- Current transformers

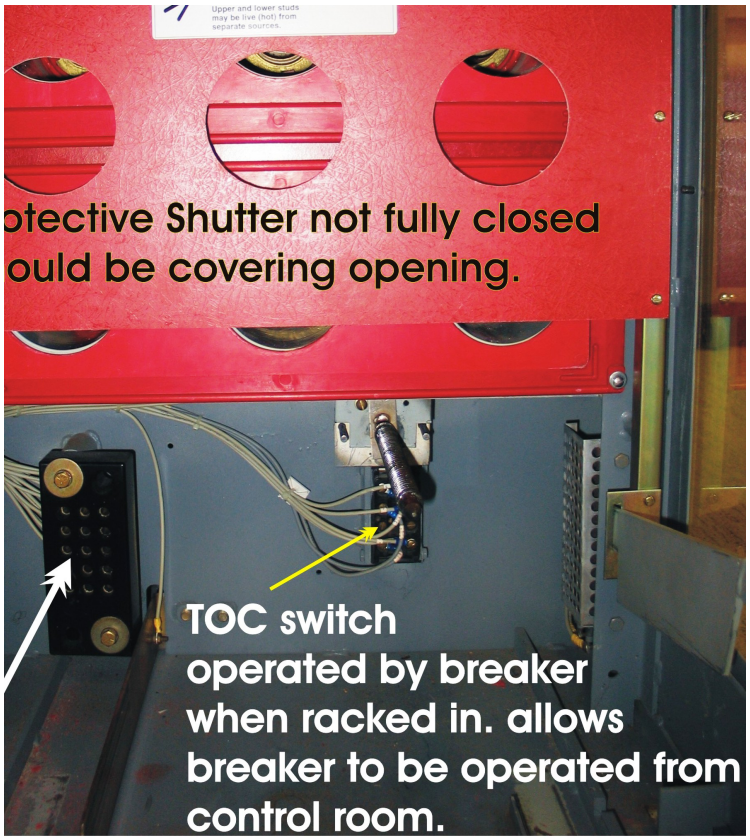
SWITCHGEAR AUXILIARY SWITCHES

- Mechanism-Operated Control Auxiliary Switches (MOC switch)

SWITCHGEAR AUXILIARY SWITCHES

- Mechanism-Operated Control Auxiliary Switch actuator (MOC switch)

SWITCHGEAR AUXILIARY SWITCHES



- Truck-Operated Contact Auxiliary Switches (TOC switch)

Remote Racking Device (DHP)

RACKING POSITIONS Demo

- Disconnect Position
- Connect Position:
- Test Position:
- Withdrawn Position: