

training



CBGS-0 Primary GIS Switchgear



Installation & Commissioning

Duration: 2 days

Content:

- CBGS-0 Cubicle General Presentation
 - Main Characteristics
 - 3 position disconnector
 - Circuit breaker
 - Busbar system
 - CT & VTs
 - Functional Units
- CBGS-0 Cubicles Operations & Interlocks
- Handling, Assembly & Commissioning of CBGS-0 cubicles
- CBGS-0 Cubicles Maintenance:
 - By-pass & Emergency Kit Assembly
 - Tests: Dielectric Test & Voltage Drop
 - SF6 pressure and recharge of gas
 - Interlocks: Adjustments & Commissioning
 - Circuit Breaker: Pressure Gauge, Coils & Motor replacement, wiring
 - Disconnector: Electromechanical interlocks, Contacts block & Wiring
 - Switch-Disconnector: Interlocks & operating mechanism replacement

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1st Day

Time	Subjects	Responsible
8 h 30 – 8 h 45	Welcome and program preview	Pedro Iribar
8 h 45 – 10 h 00	CBGS-0 cubicle general presentation Main Characteristics 3 position disconnecter Circuit breaker Busbar system CT & VTs Functional Units	Pedro Iribar
10 h 00 – 11 h 00	Operations with CBGS-0 cubicles (animation) Energize De-energize Earthing De-earthing	Pedro Iribar
11 h 00 – 11 h 15	Coffee break	
11 h 15 – 12 h 45	CBGS-0 assembly video (animation) Transport & storage Switchgear assembly Busbar assembly Busbar VT assembly Site tests	Pedro Iribar
12 h 45– 14 h 15	Lunch	
14 h 15 – 15 h 45	CBGS-0 Busbar assembly	Roberto Lombilla
15 h 45 – 16 h 45	CBGS-0 fast recovery Service By-pass Kit Assembly Emergency Kit Assembly	Roberto Lombilla
16 h 45 – 17 h 45	CBGS-0 Tests Dielectric Test Voltage Drop	Roberto Lombilla
17 h 45 – 18 h 00	Conclusions	Pedro Iribar

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2nd Day

Time	Subjects	Responsible
8 h 30 – 8 h 45	Dress up working overalls	Roberto Lombilla
8 h 45 – 10 h 00	Maintenance of CBGS-0 cubicles SF6 pressure control , detection & filling Pressure gauge replacement	Roberto Lombilla
10 h 00 – 10 h 15	Coffee break	
10 h 15 – 11 h 30	Maintenance of CBGS-0 cubicles: Interlocks Mechanical Interlocks Adjustment & commissioning	Roberto Lombilla
11 h 30 – 13 h 00	Maintenance of CBGS-0 cubicles: Circuit Breaker Coils Replacement Replacement of Spring Charging system Circuit Breaker Wiring	Roberto Lombilla
13 h 00– 14 h 15	Lunch	
14 h 15 – 15 h 45	Maintenance of CBGS-0 cubicles: Disconnecter Electromechanical Interlocks Contact Blocks Disconnecter Wiring	Roberto Lombilla
15 h 45 – 17 h 00	Maintenance of CBGS-0 cubicles: Switch-Disconnecter Switch-Disconnecter operating mechanism replacement Interlocks	Roberto Lombilla
17 h 00 – 17 h 30	Undress working overalls	Roberto Lombilla