High-Power Test Facilities: Renewal of Outdoor Disconnectors

Background	tests of circuit breakers and high power arc tests of insulator sets, power cables, and transformers	and terminals in test yards and are required for high current flow of 80kA. To maintain the testing ability of high-power test facilities, outdoor disconnectors installed in 1963 were renewed.
Outline		outdoor disconnectors are used in combination to suit test voltages and currents.
Specifications	 (1) Disconnectors (a) 115kV Vertical Break disconnector Open-close mechanism: One pole vertical break, Operating Rated short time withstand current: 100kA rms, 2s, 250kA presented voltage: 115kV, Rated current: 4000A, Number: 26 (b) 115kV Horizontal Break disconnector Open-close mechanism: Double side horizontal break, Operated short time withstand current: 50kA rms., 2s, 125kA presented voltage: 115kV, Rated current: 4000A, Number: 3 (3) (c) 23kV disconnector Open-close mechanism: One pole vertical break, Operating Rated short time withstand current: 20kA rms., 2s, 50kA perating Rated voltage: 23kV, Rated current: 800A, Number: 4 (Thr 2) (2) Control system Renewal outdoor disconnector control software (3) Supervisory system Installation of video camera system for supervisory of disconnector 	peak erating mechanism: motor drive (50Hz, 200V) beak unit interlock operation) g mechanism: motor drive (50Hz, 200V) eak ee pole: 1, single pole: 3)
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Photo 1: 115kV Vertical Break disconnector (Open)

Photo 2: 115kV Horizontal Break disconnector (3-unit interlock operation)