

PROTECTION DATA COLLECTION SYSTEM FOR SUBSTATIONS WITH TIE LINES

LIST OF PROTECTION RELAYS, FAULT RECORDERS, EVENT RECORDERS AND DIGITAL.SUBSTATIONS. SYSTEMS OF 400KV TIE-LINES AND CERTAIN RELATED TRANSMISSION CIRCUITS (PDCAS INQUIRY RELATED)

DATE OF REVISION																23/9/2015
SUBSTATION / KYT	BAY	VOLTAGE LEVEL	DISTANCE RELAY	COMMUNICATION INTERFACE	COMMUNICATION PROTOCOL	TYPE OF DISTANCE RELAY	BUS DIFFERENTIAL PROTECTION	SCADA - DCS SYSTEM	FAULT RECORDER	EVENT RECORDER	BACKUP O/C RELAY	TYPE OF BACKUP O/C RELAY	BACKUP EARTH O/C RELAY	TYPE OF BACKUP EARTH O/C RELAY	OTHER RELAYS	TYPE OF OTHER RELAY
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
		KV				NUM=Numerical, HIGH SPEED DIGITAL=Digital Fast Speed Relays[previous generation]								NUM=Numerical, STATIC=Static, EM=Electromechanical		
ARACHTHOS KYT	P870	400	SEL-421 04211611X121X3X	SERIAL RS232		ASCII - Compressed ASCII - Setting file transfer - SEL fast meter with configuration - Fast operate, Fast SER - Phasor measurement - Enhanced mirror bits										
ARACHTHOS KYT	P870	400	ABB REL670*1.1-A32X00-B03-B1-A-E-KB-A-A6-EA-D			IEC 61850										
ARACHTHOS KYT	P890	400	SEL-421 04211611X121X3X	SERIAL RS232		ASCII - Compressed ASCII - Setting file transfer - SEL fast meter with configuration - Fast operate, Fast SER - Phasor measurement - Enhanced mirror bits										
ARACHTHOS KYT	P890	400	ABB REL670*1.1-A32X00-B03-B1-A-E-KB-A-A6-EA-D			IEC 61850										
ARACHTHOS KYT	P920	400	ABB SYSTEM (HVDC LINK)			NUM						ABB HVDC	NUM			
THESSALONIKI KYT	P850	400	SEL-421 04211611X121X3X	SERIAL RS232		ASCII - Compressed ASCII - Setting file transfer - SEL fast meter with configuration - Fast operate, Fast SER - Phasor measurement - Enhanced mirror bits										
THESSALONIKI KYT	P850	400	ALSTHOM PD571	N.A.	N.A.	HIGH SPEED DIGITAL										
THESSALONIKI KYT	P880	400	SIE 7SA6111-5AB21-4KQ4/DD(V4.3)	Port B = RS485 Port C = RS232		Port B = IEC-60870-5-103 Port C = DIGSI/MODEM										
THESSALONIKI KYT	P880	400	ABB RAZFE	N.A.	N.A.	HIGH SPEED DIGITAL										
THESSALONIKI KYT	P900	400	SEL-421 04211611X121X3X	SERIAL RS232		ASCII - Compressed ASCII - Setting file transfer - SEL fast meter with configuration - Fast operate, Fast SER - Phasor measurement - Enhanced mirror bits										
THESSALONIKI KYT	P900	400	SIE 7SL32_max	N.A.	N.A.	HIGH SPEED DIGITAL										
THESSALONIKI KYT	P920	400	SEL-421 04211611X121X3X	SERIAL RS232		ASCII - Compressed ASCII - Setting file transfer - SEL fast meter with configuration - Fast operate, Fast SER - Phasor measurement - Enhanced mirror bits										
THESSALONIKI KYT	P920	400	ALSTHOM PD571	N.A.	N.A.	HIGH SPEED DIGITAL										
THESSALONIKI KYT	P950	400	OHMEGA406			HIGH SPEED DIGITAL									SIEMENS 7SD610 CABLE DIFF	NUM

