UNIT

TRANSFORMERS

TRFR. REF.	DATA TYPE	DATA DESCRIPTION	KKS CODE
T101	11kV/380V ; 1600kVA ; AN	UNIT PRECIPITATOR TRFR #A	# 0BFT31
T102	11kV/380V ; 1600kVA ; AN	UNIT TRFR #C	# 0BFT13
T103	11kV/380V ; 1600kVA ; AN	UNIT TRFR #A	# 0BFT11
T104	11kV/380V ; 1600kVA ; ONAN	UNIT FUEL OIL PLANT TRFR #A	# 0BFT41
T105	11/6,6KV ; 27MVA ; ONAN	UNIT SERVICES TRFR #A	# 0BCT10
T106	11/6,6KV ; 27MVA ; ONAN	UNIT SERVICES TRFR #B	# 0BCT20
T107	11kV/380V ; 1600kVA ; ONAN	UNIT FUEL OIL PLANT TRFR #B	# 0BFT42
T108	11kV/380V ; 1600kVA ; AN	UNIT TRFR #B	# 0BFT12
T109	11kV/380V ; 1600kVA ; AN	UNIT TRFR #D	# 0BFT14
T110	11kV/380V ; 1600kVA ; AN	UNIT PRECIPITATOR TRFR #B	# 0BFT32
T111	11kV/380V ; 1600kVA ; AN	UNIT FLY ASH BUNKER TRFR #	# 0BFT61
T112	11kV/380V ; 315kVA ; ONAN	UNIT C.W. PLANT TRFR #B	# 0BFT71
T113	3,3kV/380V ; 1600kVA ; AN	UNIT DIESEL GEN. TRFR #	# 0BWT11
T114	420/22kV 730MVA ; YNd1 ; ONAN	GENERATOR TRFR #	# 0BAT10
T115	22/11,5kV 63MVA ; YNyno ; ONAN	UNIT TRFR #A	# 0BBT10 GT100
T116	22/11,5kV 63MVA ; YNyno ; ONAN	UNIT TRFR #B	# 0BBT20 GT100
T117	22kV	UNIT TRFR #A EARTHING TRFR	# 0BBT10 GT200
T118	22kV	UNIT TRFR #B EARTHING TRFR	# 0BBT20 GT200
T119	22kV	SYNCHRONISING & METERING V.T.	# 0BAA11 GT100
T120	22kV	TEST & A.V.R. CHECK V.T.	# 0BAA15 GT100
T121	22kV	GENERATOR V.T.	# 0BAA16 GT100
T122	22kV	EARTHING TRFR	# 0BAW10 GT100

EARTHING RESISTORS

REF.	DATA DESCRIPTION	KKS CODE
R1	22kV UNIT EARTHING TRFR #A RESISTOR	# 0BBT10 GT200 - R01
R2	11kV UNIT EARTHING TRFR #A RESISTOR	# 0BBT10 GT100 - R01
R3	22kV UNIT EARTHING TRFR #B RESISTOR	# 0BBT20 GT200 - R01
R4	11kV UNIT EARTHING TRFR #B RESISTOR	# 0BBT20 GT100 - R01
R5	22kV RESISTOR #	# 0BAW10 GT100 - R01
R6	6,6kV UNIT SERVICES TRFR #A RESISTOR	# 0BCT10 GT100 - R01
R7	6,6kV UNIT SERVICES TRFR #A RESISTOR	# 0BCT20 GT100 - R01
R8	11kV RESISTOR	# 0BBT10 GT101 - T01 - R01

NOTE:
1. # ASTERISK TO BE REPLACED BY UNIT NUMBER.
2. ALL TRANSFORMERS ARE DYN11 UNLESS OTHERWISE STATED.

SURGE ARRESTORS

REF.	DATA DESCRIPTION	KKS CODE
SA1	400kV SURGE ARRESTER #	# 0ACA10 GA001
SA2	22kV SURGE ARRESTER (OVERHEAD LINE)	0 0AJC01 GA001- 0 0AJC10 GA001
SA3	132kV SURGE ARRESTER	0 0AEA10
SA4	11kV SURGE ARRESTER	0 0AKB10 - 0 0AKB40
SA2	22kV SURGE ARRESTER # (UNITS)	# 0AJC01

BREAKERS AND EARTHING SWITCHES

REF.	DATA DESCRIPTION		KKS CODE
SW1	22kV GEN. CIRCUIT BREAKER	R PHASE	# 0BAC10
		W PHASE	# 0BAC20
		B PHASE	# 0BAC30
SW2	22kV GEN. EARTH SWITCH	R PHASE	# 0BAW10
		W PHASE	# 0BAW20
		B PHASE	# 0BAW30
SW3	132kV ISOLATOR	—	0 0AEA01 GS301

LINKS

REF.	DATA DESCRIPTION	KKS CODE
LK1	22kV O/H LINE 1 KENDAL TRFR LINK 1	0 0AJC01 GS301-
LK2	22kV O/H LINE 2 KENDAL TRFR LINK 1	0 0AJC02 GS301

REVISIONS

SHEET No.	REV.
1	1
2	1
3	1

STATION

STATION DIESEL GEN. TRFR TRANSFORMERS

TRFR. REF.	DATA TYPE	DATA DESCRIPTION	KKS CODE
T1	11kV/3,3kV ; 1250kVA ; ONAN	STATION DIESEL GEN. BOARD TRFR.	0 0BDT61
T2	11kV/380V ; 1600kVA ; AN	UNIT STANDBY TRFR 2	2 0BFT21
T3			
T4	11kV/380V ; 1600kVA ; AN	UNIT LIGHTING TRFR 2	2 0BLT11
T5	11kV/3,3kV ; 5MVA ; ONAN	STATION SERVICES TRFR 1A	0 0BDT11
T6	11kV/380V ; 1600kVA ; AN	STATION DISTRIBUTION TRFR 1A	0 0BHT51
T7	11kV/380V ; ; ONAN	380V H.V. YARD BOARD A	
T8	132/11kV ; 45MVA ; ONAN	STATION TRFR	0 0BBT10
T9	11kV/380V ; 1600kVA ; ONAN	WATER PLANT TRFR 1A	0 0BHT11
T10	11kV/380V ; 1600kVA ; ONAN	WATER PLANT TRFR 1B	0 0BHT12
T11	11kV/380V ; 315kVA ; AN	ELECTRICAL WORKSHOP TRFR	0 0BHU11
T12	11kV/380V ; ; ONAN	380V H.V. YARD BOARD B	
T13	11kV/380V ; 1600kVA ; AN	STATION DISTRIBUTION TRFR 1B	0 0BHT52
T14	11kV/3,3kV ; 5MVA ; ONAN	STATION SERVICES TRFR 1B	0 0BDT12
T15	11kV/380V ; 1600kVA ; AN	UNIT LIGHTING TRFR 1	1 0BLT11
T16			
T17	11kV/380V ; 1600kVA ; AN	UNIT STANDBY TRFR 1	1 0BFT21
T18	3,3kV/380V; 1600kVA Yyno; ONAN	WATER PLANT ESSENTIAL TRFR	0 0BMT31
T19	3,3kV/380V; 800kVA Yyno, AN	STN ESSENTIAL TRFR	0 0BMT21
T20			
T21	11kV/3,3kV ; 3150kVA ; ONAN	STATION SERVICES TRFR 2A	0 0BDT13
T22	11kV/380V ; 1600kVA ; AN	UNIT LIGHTING TRFR 6	6 0BLT11
T23	11kV/380V ; 1600kVA ; AN	UNIT STANDBY TRFR 6	6 0BFT21
T24			
T25	11kV/380V ; 1600kVA ; ONAN	SUBSTATION EAST TRFR A	0 0BFU31
T26	11kV/380V ; 1600kVA ; ONAN	SUBSTATION EAST TRFR B	0 0BFU32
T27			
T28	11kV/380V ; 1600kVA ; AN	UNIT STANDBY TRFR 5	5 0BFT21
T29	11kV/380V ; 1600kVA ; AN	UNIT LIGHTING TRFR 5	5 0BLT11
T30	11kV/3,3kV ; 3150kVA ; ONAN	STATION SERVICES TRFR 2B	0 0BDT14
T31	11kV/22kV ; 7MVA ; ONAN	CSY O/H LINE 1 KENDAL TRFR	0 3BBT10
T32	11kV/22kV ; 7MVA ; ONAN	CSY O/H LINE 2 KENDAL TRFR	0 3BBT20
T33	11kV/3,3kV ; 1600kVA ; ONAN	TERRACE COAL PLANT TRFR A	0 0BDT31
T34	11kV/22kV ; 7MVA ; ONAN	CSY O/H STANDBY TRFR.	0 3BBT10
T35	11kV/380V ; 1600kVA ; AN	BOILER 5 COAL FEED TRFR.	0 0BHT75
T36	11kV/380V ; 1600kVA ; ONAN	TERRACE COAL PLANT TRFR 2A	0 0BFT23
T37	11kV/380V ; 1600kVA ; ONAN	TERRACE COAL PLANT TRFR 2B	0 0BFT24
T38	11kV/380V ; 1600kVA ; AN	BOILER 6 COAL FEED TRFR.	0 0BHT76
T39			
T40	11kV/3,3kV ; 1600kVA ; ONAN	TERRACE COAL PLANT TRFR B	0 0BDT32
T41			
T42	11kV/380V ; 1600kVA ; AN	UNIT LIGHTING TRFR 4	4 0BLT11
T43	11kV/380V ; 1600kVA ; AN	UNIT STANDBY TRFR 4	4 0BFT21
T44			
T45			
T46	11kV/380V ; 1600kVA ; ONAN	COMMON FUEL OIL PLANT TRFR A	0 0BFT11
T47	11kV/380V ; 1600kVA ; ONAN	WORKSHOP TRFR A	0 0BFT61
T48	11kV/380V ; 1600kVA ; AN	BOILER 3 COAL FEED TRFR.	0 0BHT73
T49	11kV/380V ; 1600kVA ; AN	BOILER 1 COAL FEED TRFR.	0 0BHT71
T50	11kV/380V ; 1600kVA ; ONAN	TERRACE COAL PLANT TRFR 1A	0 0BFT21
T51	11kV/380V ; 1600kVA ; ONAN	TERRACE COAL PLANT TRFR 1B	0 0BFT22
T52	11kV/380V ; 1600kVA ; AN	BOILER 2 COAL FEED TRFR.	0 0BHT72
T53	11kV/380V ; 1600kVA ; AN	BOILER 4 COAL FEED TRFR.	0 0BHT74
T54	11kV/380V ; 1600kVA ; ONAN	WORKSHOP TRFR B	0 0BFT62
T55	11kV/380V ; 1600kVA ; ONAN	COMMON FUEL OIL PLANT TRFR B	0 0BFT12
T56			
T57			
T58	11kV/380V ; 1600kVA ; AN	UNIT STANDBY TRFR 3	3 0BFT21
T59	11kV/380V ; 1600kVA ; AN	UNIT LIGHTING TRFR 3	3 0BLT11
T60	11kV/380V ; 1600kVA ; ONAN	ASH TRANSFER HOUSE TRFR A	0 0BFT51
T61	11kV/380V ; 1600kVA ; ONAN	ASH TRANSFER HOUSE TRFR B	0 0BFT52
T62	11kV/380V ; 1600kVA ; ONAN	CLEAN WATER DAM TRFR A	0 0BDT71
T63			
T64	11kV/380V ; 1600kVA ; ONAN	CLEAN WATER DAM TRFR B	0 0BDT72
T65			
T66	11kV/3,3kV ; 5000kVA ; ONAN	ASH DUMP TRFR A	0 0BDT81
T67	11kV/3,3kV ; 5000kVA ; ONAN	ASH DUMP TRFR B	0 0BDT82
T68	11kV/380V ; 1600kVA ; ONAN	S.S.B. TRFR 1A	0 0BHT31
T69	11kV/380V ; 1600kVA ; ONAN	S.S.B. TRFR 1B	0 0BHT32
T70			
T71			
T72	11kV/380V ; 800kVA ; ONAN	ASH DUMP TRFR A	0 0BFT81
T73	11kV/380V ; 800kVA ; ONAN	ASH DUMP TRFR B	0 0BFT82
T74	11kV/380V ; 315kVA ; ONAN	ASH DUMP PUMPSTATION TRFR	0 0BFU21
T75	11kV/380V ; 315kVA ; ONAN	DIRTY DRAIN RECOVERY P/HSE TRFR	0 0BHU21
T76			
T77			
T78			
T79	11kV/380V ; 315kVA ; ONAN	SECURITY TRN & ACCESS CNTR. BLDG TRFR	0 0BFT34 GT100
T80	11kV/380V ; 500kVA ; ONAN	SECURITY FENCE LIGHTING TRFR	0 0BFT32 GT100
T81	11kV/380V ; 200kVA ; ONAN	SECURITY LTG MINISUB 'Z' TRFR	0 4BLU01
T82	11kV/380V ; 200kVA ; ONAN	SECURITY LTG MINISUB 'Y' TRFR	0 3BLU01
T83	11kV/380V ; 200kVA ; ONAN	SECURITY LTG MINISUB 'X' TRFR	0 2BLU01
T84			
T85			
T86	3,3kV/380V ; 75kVA ; ONAN	STANDBY SHIFTABLE ASH CONV. TRFR	0 0BDT85
T87			
T88	3,3kV/380V ; 75kVA ; ONAN	SHIFTABLE ASH CONV. TRFR	0 0BDT87
T89			
T90	11kV/380V ; 1600kVA ; AN	L.P. SERVICES TRFR. 'A'	0 0BHT21
T91	11kV/380V ; 1600kVA ; AN	L.P. SERVICES TRFR. 'B'	0 0BHT22
T92	11kV/380V ; 315kVA ; ONAN	HYDROGEN PLANT TRFR	0 0BHT20
T93	11kV/380V	AUX. BOILER BOARD	0 0BHT33

THIS DRAWING HAS BEEN CREATED ON A CAD SYSTEM. ANY AMENDMENT MUST BE EFFECTED ON THE SAME SYSTEM.

KENDAL POWER STATION
STATION & UNIT
SINGLE LINE ELECTRIC DIAGRAM
COVER SHEET

0.64/12388 6

0.64/ REFERENCE DRAWINGS

COVSLD.DGN