GENERATION

TRANSMISSION

HV YARD HMI

HV YARD D400 GATEWAY

SOR/EOD HMI

SERVER WITH HMI

SERVER WITH HMI

SOR/EOD HMI

GPS

PRINTER LASER COLOR

PORTABLE EWS LAPTOP

STATION LEVEL SWITCH

STATION LEVEL SWITCH

STATION LEVEL ARCHITECTURE

PORTABLE EWS LAPTOP

UNIT LEVEL SWITCH

UNIT LEVEL SWITCH

TO UNIT LEVEL SWITCHES X 18

Units 2 - 6

PTM OFFICE

EWS

EWS

PRINTER LASER COLOR

COMMON PLANT SOUTH

COMMON PLANT NORTH

RADIO LINK

PORTABLE EWS LAPTOP

PRINTER LASER COLOR

UNIT LEVEL SWITCH

UNIT LEVEL SWITCH

UNIT LEVEL ARCHITECTURE

GENERATOR PROTECTION

RTU

RTU

UNIT/DIESEL GENERATOR SET(S)
LV SWITCHGEAR INCOMER(S)
BTUs
AND
OTHER SYSTEM

RADIO LINK

BOARD LEVEL ARCHITECTURE

BD 1

BOARD LEVEL SWITCH

BD 2

BOARD LEVEL SWITCH

BD 3

BOARD LEVEL SWITCH

BD 1

BOARD LEVEL SWITCH

BD 2

BOARD LEVEL SWITCH

BD 3

BOARD LEVEL SWITCH

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IED IED IED

IED IED IED

IED IED IED

IED IED IED

IED IED IED

HARDWIRED I/O TO DCS

ETHERNET CABLE

WIRELESS COMMUNICATION

BOUNDARY LINE

HARD WIRE CABLE

0	2		REVISED AS PER SITE MARK-UP.	DMN					
00	0		FIRST ISSUE						
D.O.	REV	DATE	** REVISION **	REV BY	CHKD BY	AUTH BY	KKS APP	0·61	REFERENCE DRAWINGS
			INDEX REFERENCE :						

DRG REGISTR			APPROVED BY :
			AUTHORISED BY : VM 24/02/12
KKS APP			
AUTH BY	24 02 12	VM	ESKOM HOLDINGS LTD. REG. No. 2002/015527/06
CHKD BY	24 02 12	SM	
DRAWN BY	03 11 11	DMN	
SCALE			

TUTUKA POWER STATION
SBSTATION AUTOMATION SYSTEM
ARCHITECTURE OVERVIEW

Eskom

0·61 / 93928

DOC TYPE	SHEET	REV
		2

SIZE GROOTTE A2L