


<div> Eskom</div>			FIRE DETECTION SYSTEM INSTALLATION PROJECT		Title		Fire Detection VDSS for ASD		Unique Identifier							
		Document Type			Technical Documentation Exchange Requirements		Revision		0							
					BASELINE											
			(First Character of Revision No. in Document No.) →		E	B	D		F							
DOCUMENT SET	OBJECT CODE	DOCUMENT REF NO.	COMPOSITE DOCUMENT	SINGLE DOCUMENTS	Enquiry	Concept Design Documents (P1)	Detailed Design Documents (P2)	FAT/SIT/SAT (P3)	Commissioning Documents (P4)	As Built Documents (P5)	LIVE Documents	Type of Document	Native / Original Software (SW) Format	ADDITIONAL INFORMATION ON DOCUMENT CONTENT	DATE OF LAST UPDATE	
FDS	FDS	FDS010		MASTER DOCUMENT LIST			Y			X		List	MS EXCEL			
	FDS	FDS040		CONTINUOUS FDS SERVICE CONFIRMATION METHODOLOGY (INSTALLATION, COMMISSIONING, CHANGE OVER)	Y		X			X		Narrative	MS WORD	PLAN FOR THE INSTALLATION, COMMISSIONING AND CHANGE OVER METHODOLOGY OF THE NEW SYSTEM WHILE THE EXISTING SYSTEM IS STILL RUNNING.		
	FDS	FDS050		LOGBOOK AS PER SANS10139					X	X		Narrative	MS WORD / PDF / HARD COPY	LOGBOOK INCLUDING IMPAIRMENT REGISTER. LOGBOOK IS REQUIRED FROM THE TIME THE FDS IS LIVE. IF THERE IS AN EXISTING LOGBOOK THIS CAN BE USED TO COVER THE OLD AND NEW SYSTEMS. LOGBOOK TO BE LOCATED AT THE FIRST RESPONDER (ADJACENT TO THE MAIN FIRE CONTROL PANEL)		
	FDS	FDS060		BACKUP AND DISASTER RECOVERY PLAN			X			X		Narrative	MS WORD	DISASTER RECOVERY PLAN (DRP) IS A NARRATIVE STATING HOW THE FDS IS RECOVERED AFTER CATASTROPHIC FAILURE, INCLUDING A BACKUP PLAN. THE DRP COVERS THE ENTIRE SYSTEM INCLUDING SCADA (IF APPLICABLE) ALL THE WAY DOWN TO COMPONENT LEVEL.		
	FDS	FDS070		RECOMMENDED SPARES LIST						X		List	MS EXCEL			
	FDS	FDS080		ENGINEERING, OPERATING AND MAINTENANCE MANUALS			X		X	X		Narrative	MS WORD			
	FDS	FDS090		ENGINEERING, OPERATING AND MAINTENANCE TRAINING MANUALS			X		X	X		Narrative	MS WORD			
	FDS	FDS100		FUNCTIONAL SPECIFICATION OF THE FDS (THIS IS NOT A PRODUCT USER MANUAL or CATALOGUE)			X		X	X		Narrative	MS WORD	DOCUMENT WHICH EXPLAINS HOW THE ENTIRE FIRE DETECTION SYSTEM FUNCTIONS IN AS MUCH DETAIL AS POSSIBLE		
	FDS	FDS110		FUNCTIONAL SPECIFICATION OF THIRD PARTY SYSTEMS			X		X	X		Narrative	MS WORD	DOCUMENT WHICH EXPLAINS HOW THIRD PARTY INTERFACES FUNCTION IN AS MUCH DETAIL AS POSSIBLE. INCLUDE LIST SUMMARISING ALL THIRD PARTY INTERFACES.		
	FDS	FDS120		SYSTEM ARCHITECHTURE	Y		X				X		Drawing	CAD	HIGH LEVEL DIAGRAM SHOWING THE ENTIRE SYSTEM INCLUDING 3RD PARTY INTERFACES	
	FDS	FDS130		LIST OF ABBREVIATIONS	E					X	X		List	MS WORD / MS EXCEL		
	FDS	FDS140		METHOD STATEMENT ON CONSIDERATIONS FOR REDUCTION OF FALSE ALARMS AS PER SANS 10139			X		X	X		Narrative	WORD			
	FDS	FDS150		ALARM LIST			X		X	X		List	Excel	FIRE ALARMS AND SYSTEM FAULT ALARMS		
	FDS	FDS160		ALARM RESPONSE PROCEDURE			X		X	X		Narrative	WORD	CONTRACTOR LIAISES WITH EMPLOYER REPRESENTATIVES DURING DEVELOPMENT OF THESE PROCEDURES. PROCEDURES DEVELOPED FOR EACH ALARM TYPE.		
	FDS	FDS170		SCALED FLOOR DIAGRAMS		E		X		X	X		Drawing	CAD	SHOWING POSITION OF MANUAL CALL POINTS WITH MAXIMUM TRAVEL DISTANCE TO THE NEAREST MANUAL CALL POINT, SPACING AND SITING OF AUTOMATIC FIRE DETECTORS, SITING AND RANGE OF FIRE ALARM AND SOUNDER DEVICES, THE POSITIONS OF ALL CONTROL, INDICATING AND POWER SUPPLY EQUIPMENT, THE POSITIONS OF ALL EQUIPMENT THAT MAY REQUIRE ROUTINE ATTENTION OR REPLACEMENT (E.G. SHORT CIRCUIT ISOLATORS, DETECTION ZONES, ALARM ZONES, LOOP CONNECTIONS)	

	FDS	FDS180		RECORD OF AGREED VARIATIONS FROM DESIGN SPECIFICATION	X		X		X	X		List	EXCEL	PROVIDED AS PART OF TENDER RETURNABLES	
CIE	CIE	CIE010		PANEL LAYOUT DRAWINGS			X		X	X		Drawing	CAD	ALL PANELS	
CONTROL AND INDICATING EQUIPMENT	CIE	CIE020		FIRE PANEL NETWORK DIAGRAM			X		X	X		Drawing	CAD	DETAILED NETWORK TOPOLOGY DIAGRAM SHOWING IP ADDRESSES, PHYSICAL PORT ALLOCATION, TERMINAL NUMBERS, NETWORK MEDIA CONVERTERS ETC.	
FLD	FLD	FLD010	FIELD DOCUMENTS	POINTS LIST			X		X	X		List	Excel	DETAILED LIST OF ALL SIGNALS AVAILABLE ON THE SYSTEM	
	FLD	FLD020		TYPES OF SENSORS, ELEMENTS AND EQUIPMENT			X		X	X		Narrative	PDF	DETAILED DATASHEET FOR EACH TYPE	
	FLD	FLD030		CERTIFICATES OF COMPLIANCE				X		X		Narrative	PDF	COC FOR INSTALLATIONS IN HAZARDOUS LOCATIONS ONLY. IN ACCORDANCE WITH SECTION 11(2) OF ELECTRICAL INSTALLATION REGULATIONS IN OHS ACT.	
	FLD	FLD040		END OF PHASE SYSTEM DESIGN CERTIFICATE (DESIGN, INSTALLATION AND COMMISSIONING)			X	X	X	X		Narrative	WORD	DEVIATIONS FROM SANS 10139 ARE IDENTIFIED AND CAPTURED.	
	FLD	FLD050		DETECTOR LOOP DIAGRAM			X		X	X		Drawing	CAD	DRAWING SHOWING THE LOOPS WITH ALL DETECTORS CONNECTED TO THE FIRE PANEL.	
	FLD	FLD060		TERMINATION DRAWINGS			X		X	X		Drawing	CAD	DRAWING SHOWING DEVICE TERMINATIONS FOR ALL LOOPS.	
	FLD	FLD070		FIELD DEVICE CALIBRATION SHEETS (WHERE APPLICABLE)				X		X		Narrative	PDF		
PWE	PWE	PWE010	POWER & EARTHING	POWER SUPPLY METHODOLOGY			X			X		Narrative	WORD	PHILOSOPHY OF WHERE NORMAL POWER SUPPLY IS OBTAINED AND HOW BACKUP POWER WILL BE SUPPLIED.	
	PWE	PWE020		BATTERY STANDBY TIME CALCULATIONS	X		X			X		Calculation	EXCEL	STANDBY TIME AND ALARM TIME AS PER SANS 10139	
	PWE	PWE030		ELECTROMAGNETIC COMPATIBILITY	Y		X			X		DATASHEET	PDF		
	PWE	PWE040		LIGHTNING / SURGE PROTECTION AND EARTHING METHODOLOGIES			X			X		Narrative	WORD	IN ACCORDANCE WITH SANS 10139	
	PWE	PWE050		LOAD SCHEDULES			X			X		List	EXCEL	(CONSUMERS PER UPS AND BATTERY CHARGERS)	
	PWE	PWE060		EARTHING DRAWINGS			X		X	X		Drawing	CAD		
	PWE	PWE070		POWER DISTRIBUTION DRAWINGS			X		X	X		Drawing	CAD		
TST	TST	TST010		REQUIREMENTS FOR PERIODIC TESTING OF THE SYSTEM						X		Narrative	MS WORD	TESTS TO BE CARRIED OUT IN THE FUTURE	
ACCEPTANCE TESTS	TST	TST020		FAT PROCEDURE				X		X		Narrative	MS WORD		
	TST	TST030		FAT TEST REPORT				X		X		Narrative	MS WORD		
	TST	TST040		SAT PROCEDURE				X		X		Narrative	MS WORD		
	TST	TST050		SAT TEST REPORT				X		X		Narrative	MS WORD		
	TST	TST060		SIT PROCEDURE				X		X		Narrative	MS WORD		
	TST	TST070		SIT TEST REPORT				X		X		Narrative	MS WORD		
	TST	TST080		COMMISSIONING PROCEDURE					X	X		Narrative	WORD	IN ACCORDANCE WITH SANS 10139 (DETAILED STEP BY STEP TESTING PROCEDURE WITH HOLD POINTS)	
	TST	TST090		COMMISSIONING TESTS REPORT					X	X		Narrative	WORD		
	TST	TST100		ACCEPTANCE CERTIFICATE						E		Narrative	PDF	ACCEPTANCE CERTIFICATE IS ONLY ISSUED TO THE CONTRACTOR BY THE EMPLOYER ONCE ALL AS-BUILT DOCUMENTATION HAS BEEN RECEIVED AND ACCEPTED	

BSL	BSL	BSL010	DETAILED DESIGN FREEZE (P2)	PACKAGE CONSISTS OF LINE ITEMS: FDS010, FDS040, FDS060, FDS080, FDS090, FDS100, FDS110, FDS120, FDS140, FDS150, FDS160, FDS170, FDS180, CIE010, CIE020, FLD010 FLD020, FLD040, FLD050, FLD060, SLD010, SLD020, SLD050, SLD040, PWE010, PWE020, PWE030, PWE040, PWE050, PWE060, PWE070, ENQ010, AND ENQ020			P		R	R		Baseline Package		PACKAGE CONSISTS OF LINE ITEMS: FDS010, FDS040, FDS060, FDS080, FDS090, FDS100, FDS110, FDS120, FDS140, FDS150, FDS160, FDS170, FDS180, CIE010, CIE020, FLD010 FLD020, FLD040, FLD050, FLD060, SLD010, SLD020, SLD050, SLD040, PWE010, PWE020, PWE030, PWE040, PWE050, PWE060, PWE070, ENQ010, AND ENQ020	
DESIGN AND ACCEPTANCE TESTING BASELINE DOCUMENT PACKAGES	BSL	BSL020	FAT/SIT/SAT (P3)	PACKAGE CONSISTS OF LINE ITEMS: FLD030, FLD040, FLD070, TST020, TST030, TST040, TST050, TST060, TST070				P		R		Baseline Package		PACKAGE CONSISTS OF LINE ITEMS: FLD030, FLD040, FLD070, TST020, TST030, TST040, TST050, TST060, TST070	
	BSL	BSL030	COMMISSIONING COMPLETION DOCUMENTS (P4)	PACKAGE CONSISTS OF LINE ITEMS: FDS050, FDS080, FDS090, FDS100, FDS110, FDS130, FDS140, FDS150, FDS160, FDS170, CIE010, CIE020, FLD010, FLD020, FLD040, FLD050, FLD060, SCD020, SCD030, SCD040, SCD060, SCD070, TST080 AND TST090					P	R		Baseline Package		PACKAGE CONSISTS OF LINE ITEMS: FDS050, FDS080, FDS090, FDS100, FDS110, FDS130, FDS140, FDS150, FDS160, FDS170, CIE010, CIE020, FLD010, FLD020, FLD040, FLD050, FLD060, SCD020, SCD030, SCD040, SCD060, SCD070, TST080, TST090	
	BSL	BSL040	AS BUILT DOCUMENTS (P5)	PACKAGE CONSISTS OF LINE ITEMS: FDS010, FDS030, FDS040, FDS050, FDS060, FDS070, FDS080, FDS090, FDS100, FDS110, FDS120, FDS130, FDS140, FDS150, FDS160, FDS170, FDS180, CIE010, CIE020, FLD010, FLD020, FLD030, FLD040, FLD050, FLD060, FLD070, SCD010, SCD020, SCD030, SCD040, PWE010, PWE020, PWE030, PWE040, PWE050, PWE060, PWE070, TST010, TST020, TST030, TST040, TST050, TST060, TST070, TST080, TST090, ENQ010 AND ENQ020						P		Baseline Package		PACKAGE CONSISTS OF LINE ITEMS: FDS010, FDS030, FDS040, FDS050, FDS060, FDS070, FDS080, FDS090, FDS100, FDS110, FDS120, FDS130, FDS140, FDS150, FDS160, FDS170, FDS180, CIE010, CIE020, FLD010, FLD020, FLD030, FLD040, FLD050, FLD060, FLD070, SCD010, SCD020, SCD030, SCD040, PWE010, PWE020, PWE030, PWE040, PWE050, PWE060, PWE070, TST010, TST020, TST030, TST040, TST050, TST060, TST070, TST080, TST090, ENQ010 AND ENQ020	
ENQ	ENQ	ENQ010	BATTERY LIMITS	LIMITS OF SUPPLY AND SERVICES			X			X		Drawing	EXCEL	DRAWING INDICATING BATTERY LIMITS	
INPUT INFORMATION FOR CONTR	ENQ	ENQ020	PROCESS INFORMATION	SYSTEM DESCRIPTIONS AND PHILOSOPHIES			X			X		Narrative	WORD		