SLURRY PLANT PLC AND SCADA UPGRADE

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PROJECT METHODOLOGY

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FUNCTION GROUP	(Unit No. here)	DOCUMENT NO.	(Sequence No in this column)	(Revision No. in this column)	(IEC 61355 DCC code here)	DOCUMENT DESCRIPTION	Early Works Phase (ENQUIRY/ TENDER)	Up-Front Engineering Training Completion (UP-FRONT TRNING)	High Level Eng Philosophies & Concepts (BASIC ENGINEERING)	Technical Clarification Pre-requisite Documents (BASIC ENGINEERING)	Basic Eng Design Freeze Documents (BASIC ENGINEERING)	Technical Clarification Pre-requisite Documents (DETAILED ENGINEERING)	Detailed Eng Design Freeze Documents (DETAILED ENGINEERING)	FAT Pre-requisite Documents (MANUFACTURING)	FAT Completion Documents (MANUFACTURING)	Erection & Installation Pre-requisite Documents	SIT Completion Documents	Cold Commissioning Output Documents (COMMISSIONING)	Hot Commissioning (OAT) Completion Documents (COMMISSIONING)	"AS BUILT" Document Package (COMPLETION)	Generated by the Engineering Tools	Software Format	REMARKS
							T	U	B			D		M				C		A	← (First Character of Revision No. in Document No.)		
MISCELLANEOUS	0*		001	**	EAB	INDEX AND MASTER REGISTER OF DOCUMENTS / MASTER DOCUMENTS LIST (MDL)				C	C	C	C	C	C	C	C	C	C	C	C	YES	EXCEL
	0*		001	**	EAC	DOCUMENT SYNOPSIS				C	C	C	C	C	C	C	C	C	C	C	C	YES	WORD
	0*		002	**	EDB	CHANGE MANAGEMENT PROCEDURES				C	C	C	C	C	C	C	C	C	C	C	C	YES	WORD
	0*		001	**	EDB	OPERATING PHILOSOPHIES		E		E			C			C	C			C	C	YES	WORD
	0*		001	**	ABE	INSPECTION TEST PLANS				C			C	C	C	C				C	C	YES	WORD/EXCEL
	0*		001	**	ABE	ENGINEERING PROGRAM				C	C		C	C			C	C		C	C	YES	PRIMAVERA
	0*		001	**	ABB	TECHNICAL CLARIFICATION MEETING MINUTES						C	C			C				C	C	YES	WORD
PLANT FUNCTION GROUPS	0*		001	**	MFB	DRAWINGS "As Is"		E														YES	PDF
	0*		002	**	MFB	P & I DRAWINGS "As Required"																YES	CAD
	0*		001	**	EFA	FUNCTION INPUT/OUTPUT BLOCK DIAGRAM		E					C			C	C			C	C	YES	EXCEL
	0*		002	**	EFA	LIMITS OF SUPPLY AND SERVICES		E					C			C	C			C	C	YES	EXCEL
	0*		001	**	EMA	DETAILED LOOP WIRING DRAWING (PER KKS)						C	C	C	C	C		C		C	C	YES	.VSD
	0*		003	**	EEC	INSTRUMENT SCHEDULE																YES	EXCEL
	0*		002	**	EFE	PROTECTION NARRATIVE (Verbal Descriptions for VGB R170c Functional Unit Documentation)																YES	PDF
	0*		002	**	ACH	FMECA STUDIES (Failure Mode Effects and Criticality Analysis) where applicable																YES	N/A
CONTROL SYSTEM	0*		001	**	EEC	SYSTEM PHILOSOPHIES																YES	WORD
	0*		001	**	EPD	SOFTWARE INVENTORY (LISTING ALL SOFTWARE PACKAGES, VERSION NUMBER, LICENSE INFORMATION,ETC...)													C	C	C		N/A
	0*		002	**	EFA	DETAILED IO LIST AND CHANNEL ASSIGNMENTS							C	C	C	C			C	C	C	YES	EXCEL
	0*		001	**	EFA	CONTROL SCHEMATIC DIAGRAMS (OVERVIEW)																YES	CAD
	0*		001	**	EFA	CONTROL NARRATIVES (DESCRIPTION OF SCHEMATIC AND FUNCTION DIAGRAMS)																YES	WORD
	0*		002	**	EEC	HMI GRAPHICAL DISPLAY							C	C		C		C	C	C	C	YES	EXCEL
CABLING	0*		001	**	EDB	DESIGN AND ROUTING							C	C	C	C	C	C		C	C	YES	CAD
	0*		001	**	EMB	CABLE SCHEDULES							C			C	C	C		C	C	YES	EXCEL
	0*		001	**	EMA	TERMINATION SCHEDULES							C	C	C	C		C		C	C	YES	EXCEL
	0*		001	**	EQC	CERTIFICATES OF COMPLIANCE										C				C	C	YES	PDF
FIELD	0*		001	**	ELU	ELECTRICAL HOOK-UP DIAGRAMS							E	E	E	E	E	E	E	E	E	YES	CAD/PDF
	0*		002	**	MFB	MECHANICAL HOOK-UP DIAGRAMS							E	E	E	E	E	E	E	E	E	YES	CAD/PDF
	0*		001	**	ELU	LOOP WIRING DRAWINGS & FRAMED ZONED DIAGRAMS							E	E	E	E	E	E	E	E	E	YES	CAD
	0*		002	**	ELU	JB AND WIRING							E	E	E	E	E	E	E	E	E	YES	CAD
	0*		001	**	EDA	FIELD DEVICE CALIBRATION SHEETS/CERTIFICATES							E	E	E	E	E	E	E	E	E	YES	PDF
	0*		002	**	ELU	EQUIPMENT LOCATION DRAWINGS							E	E	E	E	E	E	E	E	E	YES	CAD/PDF
ON	0*		001	**	CLB	EARTHING, LIGHTNING PROTECTION DETAILS/DRAWINGS							C	C	C	C	C	C	C	C	C	YES	CAD

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PROJECT METHODOLOGY

ENQUIRY/ TENDER	UP-FRONT TRNING	BASIC ENGINEERING			DETAILED ENGINEERING		MANUFACTURIN G			COMMISSIONING		COMPLETION
T	U	B			D		M			C		A

TECHNICAL DOCUMENTATION REQUIREMENTS

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POWER DISTRIBUTI SYSTEMS	0*		001	**	EFS	220V POWER DISTRIBUTION DRAWINGS							C			C			C	C	C	YES	CAD
	0*		002	**	EFS	24V POWER DISTRIBUTION DRAWINGS							C			C			C	C	C	YES	CAD
	0*		002	**	CPL	DB BOX LOCATION DETAILS							C			C			C	C	C	YES	CAD
ALARM RATIONALISATION	0*		001	**	EDB	ALARM PHILOSOPHY							C							C	C	YES	WORD
	0*		001	**	EEC	RATIONALISED SYSTEM ALARM LIST (SYSTEM ALARMS BEING CONTROL SYSTEM EQUIPMENT ALARMS)							C					C		C	C	YES	EXCEL
	0*		003	**	EDB	ANNEXURE 2 OF EED_GTD_C&I_006 FOR EACH CONFIGURED SYSTEM ALARM														C	C	YES	WORD
	0*		004	**	EDB	SYSTEM ALARM RESPONSES							C					C		C	C	YES	WORD
	0*		001	**	EDC	STANDARD EQUIPMENT OPERATING MANUALS														C	C	YES	PDF
	0*		002	**	EDC	OPERATING MANUALS & MAINTENANCE MANUALS													C	C	C	YES	WORD
	0*		003	**	EDC	SYSTEM DIAGNOSTIC/MAINTENANCE MANUALS													C	C	C	YES	WORD
	0*		004	**	EDC	CATALOGUES AND BROCHURES														C	C		PDF
	0*		002	**	EPB	RECOMMENDED SPARES HOLDING SCHEDULE														C	C	YES	EXCEL
TESTING, PERFORMANCE AND ACCEPTANCE	0*		004	**	EDZ	COLD COMMISSIONING PROCEDURE										C				C	C	YES	WORD
	0*		004	**	EDD	COLD COMMISSIONING TESTS REPORT (FUNCTIONAL TESTS, ELECTRICAL TESTS AND INSTRUMENT CHECKS)											C	C	C	C	C	YES	WORD
	0*		001	**	EBB	COMPLETION CERTIFICATE														C	C	YES	PDF

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