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0.3-May-19 12:33:15

cor29158

Rev. No.	DATE	REVISIONS	DIS.	REV.	D.L.	BHP
2	03-may-19	ISSUED APPROVED FOR CONSTRUCTION	FC	GG	HG/JB	
1	20-dec-18	ISSUED APPROVED FOR CONSTRUCTION	SKC	RM	SA/JB	
0	17-jan-18	ISSUED APPROVED FOR DESIGN	AB	DP	HG	
0A	21-sep-17	ISSUED FOR COMPANY APPROVAL	AB	DP	HG	
A	25-jul-17	ISSUED FOR INTERNAL REVIEW	AB	DP	HG	

1	2	3	4	5	6	7	8	9	10
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LINES		INSTRUMENT/FUNCTIONS		TYPICAL CONNECTION ANY VARIABLE		VARIABLES			ACTUATORS		
						FLOW		LEVEL		TEMPERATURE ELEMENTS	
	NON CLASSIFIED SIGNAL		INSTRUMENT LOCATED IN FIELD		DIRECT CONNECTION		ORIFICE PLATE		RADAR LEVEL		THERMOCOUPLE
	CONNECTION TO PROCESS MECHANICAL LINK OR INSTRUMENT INPUT		INSTRUMENT IN FRONT OF CENTRAL OR MAIN PANEL OR CONSOLE		FILLED SYSTEM, DIRECT CONNECTION		RESTRICTION ORIFICE		ULTRASONIC LEVEL		RESISTANCE TEMPERATURE DETECTOR
	PNEUMATIC SIGNAL		INSTRUMENT IN REAR OF CENTRAL OR MAIN PANEL		RADIATION SENSOR		ORIFICE PLATE IN QUICK CHANGE FITTING		ULTRASONIC LEVEL WITH FLOATING DEVICE		THERMOMETER
	ELECTRICAL SIGNAL		INSTRUMENT LOCATED IN FRONT OF LOCAL PANEL		RADIATION SENSING IN CHUTE		VENTURI TUBE OR FLOW NOZZLE		(IF REQ'D) FLANGE MOUNTED DIFFERENTIAL PRESSURE TYPE LEVEL TRANSMITTER		
	COMMUNICATION LINK BETWEEN DEVICES OF A SHARED DISPLAY CONTROL SYSTEM OR MONITORING SYSTEM		INSTRUMENT LOCATED IN REAR OF LOCAL PANEL				AVERAGING PITOT		INTERNAL BALL-FLOAT TYPE LEVEL INSTRUMENT		
	COMMUNICATION LINK BETWEEN DEVICES AND FUNCTIONS OF A FIELDBUS SYSTEM.		INSTRUMENT FOR TWO MEASURED VARIABLES OR MORE THAN ONE FUNCTION				FLUME		GAUGE INTERGRALLY MOUNTED ON VESSEL		
	CAPILLARY TUBING (FILLED SYSTEM)		DISTRIBUTED CONTROL SYSTEM (DCS) FUNCTION WITH DISPLAY/ADJUSTMENTS ON CONSOLE				WEIR		GAUGE GLASS EXTERNALLY MOUNTED ON VESSEL		
	HYDRAULIC SIGNAL		DCS INTERLOCK DCS FUNCTION NOT DISPLAYED ON CONSOLE				SIGHT GLASS		LEVEL INSTRUMENT FLOAT TYPE		
	GUIDED ELECTROMAGNETIC OR SONIC SIGNAL, FIBER OPTIC CABLE		ES = ELECTRICAL SUPPLY				SONAR TYPE FLOW ELEMENT				
	RADIATION, SONIC OR ELECTROMAGNETIC (NON GUIDED)		INDICATOR LIGHT				ROTAMETER				
	WIRELESS COMMUNICATION LINK		INTERLOCK HARDWIRED				MAGNETIC FLOWMETER				
	ES = ELECTRICAL SUPPLY		INTERLOCK FUNCTION BY PLC OR ELECTRONIC CONTROLLER				CORIOLIS FLOWMETER				
	WS = WATER SUPPLY		COMPUTER				VORTEX FLOWMETER				
	GS = GAS SUPPLY		PLC OR ELECTRONIC CONTROLLER FUNCTION WITH DISPLAY/ADJUSTMENTS ON CONSOLE				THERMAL DISPERSION FLOW ELEMENT				
	PA = PLANT AIR SUPPLY		PLC OR ELECTRONIC CONTROLLER FUNCTION WITH INTERNAL SIGNAL CONDITIONING OR COMPUTATION COMPONENT				ULTRASONIC FLOW ELEMENT				
	IA = INSTRUMENT AIR SUPPLY		FUNCTION WITH DISPLAY / ADJUSTMENT ON FIRE PROTECTION PANNEL				VANE FLOW ELEMENT				
	HS = HYDRAULIC SUPPLY						TARGET FLOW ELEMENT				
	PURGE MATERIAL X TO BE DEFINED										

Revisado / Reviewed

Revisado con Comentarios
Reviewed with comments

Rechazado y volver a emitir
Rejected, reissue

Solo Información
Information Only

Fecha / Date
17-05-2019

Firma / Signature
Marcial Mendoza

SPANISH LANGUAGE GOVERNS

ENGLISH LANGUAGE GOVERNS

Fluor-Salfa

BHP

MINERA SPENCE S.A.

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Fluor-Salfa				BHP				MINERA SPENCE S.A.				
ENGINEERING	SCALE		DATE		DATE		SGO PROJECT					
	DESIGNED BY:		DRAWN BY: SYAM		11-12-18		MINERAL PROCESS FACILITIES INSTRUMENT IDENTIFICATION P&ID					
	REVISED BY: R. MONDAL		DISCIPLINE LEADER: ADAPA/BARRERA		11-12-18							
	ENGINEERING MGR: JOSH1/LEGGETT		PROJECT MGR: A. KING		11-12-18							
BHP	ENGINEERING MGR:		PROJECT MGR:									
VENDOR DRAWING N°:				CONTRACT N°:				BHP DRWG N°:		REV. 2		
4-V2-2000-PR-PID-000006				8500135645				4-V2-2000-PR-PID-000006				

1.- THIS DRAWING IS BASED ON ANSI/ISA-5.1-2009 STANDARD
INSTRUMENTATION SYMBOLS AND IDENTIFICATION.

REFERENCE DOCUMENTS BHP N° NOTE

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