



CLIENT:	TW POWER SERVICES
FACILITY:	COLLIE POWER STATION
PROJECT:	2020 SHUTDOWN
VALVE DESCRIPTION:	10" X 7" CL2500, KOSO 100D ECONOMIZER INLET CONTROL VALVE
FUNCTIONAL LOCATION NO.:	11LAB65AA001
SERIAL NO.:	VD6A93-001
DOCUMENT TITLE:	VALVE OVERHAUL ITP

REVIS	SION HISTORY				
REV	DATE	DESCRIPTION OF CHANGE (S)	PREPARED BY	CHECKED BY	APPROVED BY
0	29/07/2019	Original Issue	Mayur Sanghani	Nitin Aggarwal	Mark Pensini



	PROJECT	CONTR	ACTOR	REVISION NO.	DATE		PREPARED)	СН	ECKED	APPROVED	
COLI	IE POWER STATION 2020 SHUTDOWN				29/07/2019		MAYUR SANGHANI		NITIN AGGARWAL		MARK PENSINI	
EQUIPMENT I.D./TAG NO.		SERIAL NUMBER		VALVE TYPE	DESCRIPTION		SIZE		PRESSU	JRE CLASS	ACTUATOR	
	11LAB65AA001	VD6A9	93-001	KOSO CONTROL VLV. 100D	ECONOMISER INLET	10″X7″			2500	KOSO PISTON PNEUMATIC 6360LA		
						SIGN-OFF						
Item	Activity	Activity Characteristics to be			Documents	C	CONTRACTOR		TWPS			
No.		Verified Procedure/Instruction			Task	Name	Date	Task	Name	Date	Comments	

1.0	VALVE IDENTIFICATION AND AR	EA SET UP								
1.1	Fully review Scope of Work, ITP and Procedure for the valve.	Ensure the correct procedure is followed, PPE is worn at all times, the work pack is filled correctly. Ensure tools and hard hats are secured using Lanyards and Chin straps respectively to avoid dropped objects at all times.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works	R		N/A	N/A	N/A	
1.2	Obtain work permit, Identify the valve, verify the valve KKS number against permit, work pack, ITP, procedure and lock on to the permit.	Verify that the valve details listed on the permit, ITP, Procedure and work pack match the valve. Ensure all personnel working on the valve have signed and locked on to the permit.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack	R		N/A	N/A	N/A	

TASK H	KEY		
н	Hold Point	R	Review / perform activity
1	Inspection / testing	W	Witness



	PROJECT	CONTR	ACTOR	REVISION NO.	DATE		PREPARED)	СН	IECKED	APPROVED
COL	LIE POWER STATION 2020 SHUTDOWN			0	29/07/2019		MAYUR SANGHANI		NITIN AGGARWAL		MARK PENSINI
	EQUIPMENT I.D./TAG NO.	SERIAL N	IUMBER	VALVE TYPE	DESCRIPTION	J	SIZE		PRESS	URE CLASS	ACTUATOR
11LAB65AA001		VD6A9	93-001	KOSO CONTROL VLV. 100D	10"X7"			2500		KOSO PISTON PNEUMATIC 6360LA	
	Activity							s	IGN-OFF		
Item		Characteristics to be	Controlling	Documents	(CONTRAC	TOR		TWPS		
No.		Verified	Procedure/Instruction	Documents	Task	Name	Date	Task	Name	Date	Comments
1.3	Inspect the work area and	Identify and list the	11LAB65AA001 Valve	Scope of Works							

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	surroundings and prepare the JHA.	hazards, associated risks and the controls required to minimise the likelihood of the hazard to cause harm. All personnel working on the valve/inspecting the valve must sign on to the JHA prior to commencing any work.	Overhaul Procedure	Work permit	R		N/A	N/A	N/A	
1.4	Demarcate the work area using caution/danger tape as required and attach information tags on the tapes at entry points.	Establish an exclusion zone to prevent unauthorised entry to the work area. Name and contact of the person in control of the work area must be detailed on the information tags.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack	R		N/A	N/A	N/A	

TASK KEY											
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Ι	Inspection / testing	W	Witness								



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	PROJECT	CONTRA	ACTOR	REVISION NO.		DATE		PREPARE	2	СН	ECKED	APPROVED
COL	LIE POWER STATION 2020 SHUTDOWN			0	2	9/07/2019		MAYUR SANGH	IANI	NITIN	AGGARWAL	MARK PENSINI
	EQUIPMENT I.D./TAG NO.	SERIAL N	IUMBER	VALVE TYPE	DES	SCRIPTION	N	SIZE		PRESS	URE CLASS	ACTUATOR
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NO.		vermea	·			Task	Name	Date	Task	Name	Date	Comments
1.5	Set up the work area by laying drop sheets on the floor, wire mesh on the railings and complete the Dropped Object Checklist.	Verify that there are no gapes in the drop sheets or wire mesh to ensure possibility of dropped objects is minimised. Other than the mandatory PPE, task appropriate PPE must be worn by all personnel working/inspecting the valve.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist		R			R			
1.6	Place the required tools and equipment in plastic tubs or tool boxes on the drop sheets away from the edges.	Verify that there is minimal possibility of tools, equipment, fasteners and other items falling out of the tubs/tool boxes. Ensure the tubs/tool boxes as placed away from the edges and are not blocking/hindering access to the valve.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist		R			N/A	N/A	N/A	

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EQUIPMENT I.D./TAG NO.		SERIAL NUMBER		VALVE TYPE	DESCRIPTION	1	SIZE		PRESSURE CLASS		ACTUATOR
11LAB65AA001		VD6A9	93-001	KOSO CONTROL VLV. 100D	ECONOMISER INLET		10"X7" 2		2500	KOSO PISTON PNEUMATIC 6360LA	
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Item	Activity	Characteristics to be	Controlling	Documents	Documents		CONTRACTOR				
No.		Verified	Procedure/Instruction		Task	Name	Date	Task	Name	Date	Comments

		Ensure fasteners placed in plastic bags inside the tubs to minimise misplacement.								
1.7	Check that the valve, actuator and instruments have been isolated.	Verify that the valve and associated instruments are isolated. Where possibly ensure that there is no trapped pressure in the line.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R		N/A	N/A	N/A	
1.8	Note and mark the position of the valve.	Ensure that the as found position of the valve is noted and marked as the valve is to be left in the as found position after overhaul.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R		N/A	N/A	N/A	
2.0	VALVE STRIP DOWN & ASSESSM	ENT								
2.1	Disengage the valve stem from the actuator stem and remove actuator and other instruments.	Ensure that the valve stem is adequately supported to prevent it from dropping on the	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA	R		N/A	N/A	N/A	
TASK KEY	lold Point R Review / perform activity									
	nspection / testing W Witness	<u> </u>								



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	EQUIPMENT I.D./TAG NO.	SERIAL N	IUMBER	VALVE TYPE	DESCRIPTION		SIZE		PRESSURE CLASS		ACTUATOR
	11LAB65AA001	VD6A93-001		KOSO CONTROL VLV. 100D	ECONOMISER INLET		10"X7"			2500	KOSO PISTON PNEUMATIC 6360LA
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Item	Activity	Characteristics to be	Controlling	Documents	C	ONTRACT	NTRACTOR		TWPS		
No.		Activity Verified Procedure/Instruction			Task	Name	Date	Task	Name	Date	Comments

		seat when the stems are disengaged. Ensure that the actuator is secured and there is sufficient tension on the slings to prevent uncontrolled movement. Ensure that the connections of tubing, wiring and orientation of the actuator/instruments are noted and photographs are taken prior to disassembly.		Dropped object checklist						
2.2	Remove the gland packing and disassemble the bonnets and place the fasteners in a plastic box.	Ensure minimal scoring the stem and packing bore when removing packing. Ensure the bonnet is lifted vertically till clear of the stem to avoid damaging the stem.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R		N/A	N/A	N/A	

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COL	LIE POWER STATION 2020 SHUTDOWN			0	29/07/2	019		MAYUR SANGH	IANI	NITIN	AGGARWAL	MARK PENSINI
	EQUIPMENT I.D./TAG NO.	SERIAL N	IUMBER	VALVE TYPE	DESCRIP	TION		SIZE		PRESS	URE CLASS	ACTUATOR
	11LAB65AA001	VD6A9	3-001	KOSO CONTROL VLV. 100D		ECONOMISER 10"X7"		2500		2500	KOSO PISTON PNEUMATIC 6360LA	
			Controlling Procedure/Instruction			SIGN-OFF						
ltem No.	Activity	Characteristics to be Verified		Documents		CO	ONTRACT	OR		TWPS		
NO.		vermea	Procedure/Instruction		Tas	¢	Name	Date	Task	Name	Date	Comments
2.3	Remove the plug & stem, disk stack and seat from the valve body.	Ensure care is taken when removing the plug & stem, disk stack and seat to minimise possibility of damage.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R				N/A	N/A	N/A	
2.4	Take photos of the components as found and clean components to remove process build up.	Ensure photos are taken in the as found condition and after cleaning especially areas that have sustained damage.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R				N/A	N/A	N/A	
2.5	Assess and note the condition of the plug & stem, disk stack and seat after cleaning and take photos.	Assessment of the components must only be carried out after cleaning to get a clear indication on the extent of damage.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	н				I			Assessment of the components and refurbishment plan to be discussed with Pro-Mech Engineering/TWPS

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	EQUIPMENT I.D./TAG NO.	SERIAL N	IUMBER	VALVE TYPE	DESCRIPTION		SIZE		PRESSURE CLASS		ACTUATOR
	11LAB65AA001	VD6A93-001		KOSO CONTROL VLV. 100D	ECONOMISER INLET		10"X7"			2500	KOSO PISTON PNEUMATIC 6360LA
								SI	GN-OFF		
Item	Activity	Characteristics to be	Controlling	Documents	C	CONTRACTOR			TWPS		
No.		Activity Verified Procedure/Instruction			Task	Name	Date	Task	Name	Date	Comments

3.0	REFURBISH/REPLACE COMPONE	INTS								
3.1	Pressure clean the disc stack to remove any scales / deposits.	Check for signs of damage or wear on the disk stack.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R		I			Quality inspections to be carried out by Pro-Mech Engineering/TWPS
3.2	Polish the valve stem, lap plug and seat. Machine if required. If the components are beyond refurbishment, replace with new free- issued spares. Take photos of the components after refurbishment and prior to installation.	Ensure that the stem and packing bore are score free. Ensure that the dimensions of the stem, plug and seat are within tolerance as specified in the procedure/IOM.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R		I			Quality inspections to be carried out by Pro-Mech Engineering/TWPS
3.3	Wire brush and clean all studs and nuts. Take photos after cleaning and prior to installation.	Ensure the studs and nuts are free from rust/dirt/anti-seize.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R		N/A	N/A	N/A	

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VALVE OVERHAUL ITP



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COL	LIE POWER STATION 2020 SHUTDOWN			0		29/07/2019		MAYUR SANGH	ANI	NITIN	AGGARWAL	MARK PENSINI
	EQUIPMENT I.D./TAG NO.	SERIAL N	UMBER	VALVE TYPE	DE	SCRIPTION	1	SIZE		PRESS	URE CLASS	ACTUATOR
	11LAB65AA001	VD6A9	3-001	KOSO CONTROL VLV. 100D	E	CONOMISER INLET		10"X7"			2500	KOSO PISTON PNEUMATIC 6360LA
									S	IGN-OFF		
ltem No.	Activity	Characteristics to be Verified	Controlling Procedure/Instruction	Documents		(CONTRACTOR		TWPS			
NO.		vermea	Procedure/Instruction			Task	Name	Date	Task	Name	Date	Comments
3.4	Clean the valve body internally including the seat pocket and all other non-replaceable parts of the valve such as bonnet, gland flange, follower, packing bore etc Take photos after cleaning and prior to assembly.	Ensure that the valve body and seat pocket are clean. Ensure that the gland flange and packing follower are cleaned and are free of high spots that my score the stem.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist		R			I			Quality inspections to be carried out by Pro-Mech Engineering/TWPS
3.5	Replace all soft goods such as balance seal, gaskets and stem packing. Take photos prior to installation.	Verify that the softs goods are free from damage and are of the correct dimensions.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist		R			N/A	N/A	N/A	
4.0	RE-ASSEMBLE VALVE											
4.1	Assemble the valve with refurbished/new trim parts and new soft goods.	Verify that the refurbished components are score free. If replacement spares are used, verify that the components are damage free.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist		R			N/A	N/A	N/A	
TASK KEY			L	1		II		I				1
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I Inspection / testing W Witness



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		0	29/0	07/2019		MAYUR SANGH	ANI	NITIN	AGGARWAL	MARK PENSINI
SERIAL N	IUMBER	VALVE TYPE	DESC	RIPTION	1	SIZE		PRESS	URE CLASS	ACTUATOR
VD6A9	93-001	KOSO CONTROL VLV. 100D				10"X7"			2500	KOSO PISTON PNEUMATIC 6360L
							S	IGN-OFF		
Characteristics to be	Controlling	Documents		C	CONTRACT	OR		TWPS		
Verified	Procedure/Instruction			Task	Name	Date	Task	Name	Date	Comments
Ensure correct packing is installed in the correct arrangement as shown I the valve GA. Ensure that the bonnet and gland flange studs are correctly torqued. Refer to the procedure/IOM for torque values.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist		R			N/A	N/A	N/A	
SORIES										
Ensure photos are taken in the as found condition and after cleaning especially areas that have sustained damage.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist		R			I			Assessment of the components and refurbishment plan to discussed with Pro-Me Engineering.
Assessment of the components must only be carried out after cleaning to get a clear indication on the extent of damage.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist		R			I			Assessment of the components and refurbishment plan to discussed with Pro-Me Engineering.
	SERIAL N VD6AS Characteristics to be Verified Ensure correct packing is installed in the correct arrangement as shown I the valve GA. Ensure that the bonnet and gland flange studs are correctly torqued. Refer to the procedure/IOM for torque values. SORIES Ensure photos are taken in the as found condition and after cleaning especially areas that have sustained damage. Assessment of the components must only be carried out after cleaning to get a clear indication on the extent	VerifiedProcedure/InstructionEnsure correct packing is installed in the correct arrangement as shown I the valve GA. Ensure that the bonnet and gland flange studs are correctly torqued. 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Refer to the procedure/IOM for torque values. 11LAB65AA001 Valve Overhaul Procedure Scope of Works Work permit Work pack JHA Dropped object checklist SORIES 11LAB65AA001 Valve Overhaul Procedure Scope of Works Work permit Work pack JHA Dropped object checklist Assessment of the components must only be carried out after cleaning to get a clear indication on the extent 11LAB65AA001 Valve Overhaul Procedure Scope of Works Work permit Work pack JHA Dropped object checklist	0 29/0 SERIAL NUMBER VALVE TYPE DESC VD6A93-001 KOSO CONTROL VLV. 100D ECON VLV. 100D Characteristics to be Verified Controlling Procedure/Instruction Documents Ensure correct packing is installed in the correct arrangement as shown I the valve GA. Ensure that the bonnet and gland flange studs are correctly torqued. 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Refer to the procedure/IOM for torque values. 11LAB65AA001 Valve Overhaul Procedure Scope of Works Work permit Work pack JHA R Ensure torect arrangement as shown I the valve GA. Ensure that the bonnet and gland flange studs are correctly torqued. 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Refer to the procedure/IOM for torque values. 11LAB65AA001 Valve Overhaul Procedure Scope of Works Work permit Work pack JHA Dropped object checklist R N/A Ensure photos are taken in the as found condition and after cleaning especially areas that have sustained damage. 11LAB65AA001 Valve Overhaul Procedure Scope of Works Work permit Work pack JHA Dropped object checklist R I Assessment of the components must only be carried out after cleaning tog et a clear indication on the extent 11LAB65AA001 Valve Overhaul Procedure Scope of Works Work permit Work pack JHA Dropped object checklist R I	0 29/07/2019 MAYUR SANGHANI NITIN SERIAL NUMBER VALVE TYPE DESCRIPTION SIZE PRESS VD6A93-001 KOSO CONTROL VLV. 100D ECONOMISER INIET 10"X7" 10"X7"	0 29/07/2019 MAYUR SANGHANI NITIN AGGARWAL SERIAL NUMBER VALVE TYPE DESCRIPTION SIZE PRESSURE CLASS VD6A93-001 KOSO CONTROL VLV. 1000 ECONOMISER INLET 10"K7" 2500 Characteristics to be Verified Controlling Procedure/Instruction Documents CONTRACTOR TWPS Ensure correct packing is installed in the correct arrangement as shown 1 the valve GA. Ensure that the bornet and gland flange studs are correctly torqued. Refer to the procedure/IOM for torque values. 11LAB65AA001 Valve Overhaul Procedure Scope of Works Work pack JHA Dropped object checklist R N/A N/A N/A N/A Ensure photos are taken in the as found condition and after cleaning especially areas that have sustained damage. 11LAB65AA001 Valve Overhaul Procedure Scope of Works Work pack JHA Dropped object checklist R I I I Assessment of the components must only be carried out after cleaning to get a clear indication on the extent 11LAB65AA001 Valve Overhaul Procedure Scope of Works Work pack JHA Dropped object checklist R I I



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Item	Activity	Characteristics to be	Controlling	Documents	C	ONTRAC	INTRACTOR		TWPS		
No.		Activity Verified Procedure/Instruction			Task	Name	Date	Task	Name	Date	Comments

6.0	OVERHAUL ACTUATOR AND ACC	CESSORIES								
6.1	Clean and polish the stem, piston, and cylinder internals. Clean the assembly rods and actuator cylinder externally.	Ensure that the stem, piston, and cylinder internals are score free. Ensure the assembly rods are free from rust/dirt/anti-seize.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R		I			Quality inspections to be carried out by Pro-Mech Engineering.
6.2	Refurbish/replace accessories as required.	Ensure refurbished accessories are in good working condition. Ensure any accessories replaced with new is damage free and compatible.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R		N/A	N/A	N/A	
6.2	Assemble the actuator with refurbished components and new soft goods.	Verify that the refurbished components are score free. If replacement spares are used, verify that the components are damage free.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R		N/A	N/A	N/A	

TASK H	TASK KEY									
н	Hold Point	R	Review / perform activity							
1	Inspection / testing	W	Witness							





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						SIGN-OFF					
Item	Activity	Characteristics to be Controlling Docu Verified Procedure/Instruction	Documents	c	ONTRAC	TOR		TWPS			
No.			Procedure/Instruction		Task	Name	Date	Task	Name	Date	Comments

7.0	ASSEMBLE VALVE AND ACTUATO	DR								
7.1	Assemble the valve and actuator with all required accessories.	Ensure that the orientation of the actuator and accessories are correct. Verify the orientation with the as found photographs and notes.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R		N/A	N/A	N/A	
8.0	8.0 FUNCTION TEST AND RE-PROFILE VALVE & ACTUATOR ASSEMBLY									
8.1	Function test the valve after assembly.	Verify that valve strokes smoothly.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	н		w			
8.2	Re-profile the valve using control valve profiler and leave the valve in the as found position.	Ensure that valve strokes smoothly and that the limits are set correctly. Verify the position of the valve with the as found marking/photos.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	н		w			

TASK KEY									
н	Hold Point	R	Review / perform activity						
1	Inspection / testing	W	Witness						



	PROJECT CONTRACTOR I		REVISION NO.	DATE	DATE PREPARED)	CHECKED		APPROVED	
COL	COLLIE POWER STATION 2020 SHUTDOWN		0	29/07/2019		MAYUR SANGHANI		NITIN AGGARWAL		MARK PENSINI	
EQUIPMENT I.D./TAG NO. SERIAI		SERIAL N	SERIAL NUMBER		DESCRIPTION		SIZE		PRESSURE CLASS		ACTUATOR
11LAB65AA001		VD6A9	VD6A93-001		ECONOMISER INLET		10″X7″		2500		KOSO PISTON PNEUMATIC 6360LA
			Controlling			SIGN-OFF					
Item	Item Activity No.	Characteristics to be		Documents	C	ONTRACT	TOR	TWPS			
No.		Verified Procedure/Instruction			Task	Name	Date	Task	Name	Date	Comments

9.0	TAGGING, FINAL FUNCTION TES	T, & HANDOVER								
9.1	Tag the valve with valve information and date of overhaul. Take photos of the valve.		11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit Work pack JHA Dropped object checklist	R		N/A	N/A	N/A	
9.2	Carry out final function test. (Final function test can only be carried out once electrical connections have been restored to the control room).	Verify that the signal received by the control room matches the actual position of the valve.		Scope of Works Work permit	Н		w			
9.3	Clean the work area, remove all tools, equipment, barricading and drop sheets.		11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit JHA Dropped object checklist	R		N/A	N/A	N/A	
9.4	Upon successful completion of Final function test, handover the valve to TWPS.	Ensure all personnel have signed off and removed the locks from the permit.	11LAB65AA001 Valve Overhaul Procedure	Scope of Works Work permit	R		N/A	N/A	N/A	

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