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		Title: RECLAIMER DUST SUPPRESSION SYSTEM		Issue Date: 31/10/2019

STANDARD OPERATING PROCEDURE

RECLAIMER DUST SUPPRESSION SYSTEM

MDPCL-OMH-SOP-01-004		
Date Approved: 31/10/2019	Approved by Team Leader: Duong Thuc Son 	
Date Approved:	Approved by Operation Manager: Sid Phan 	

Revision No.	Description	Revision Date	Prepared by	1st Reviewed by	2nd Reviewed by
0	First Issue	15-Oct-2018	Nguyen Thi Phuong		
1	First revise	22-Oct-2019	Ban Trung Hung	Doan Van Lieu	Nguyen Van Tan

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REVISION HISTORY

No.	Date of revision	Description of change	Reviewed by	Approved by
0				
1				

1. PURPOSE AND SCOPE

The purpose of this document is to provide a systematic guideline to operating the Dust Suppression System of Reclaimer.


The dust suppression system covers the water spray for:

- Primary Scraper Arm
- Secondary Scraper Arm
- Discharge Reclaimer

2. DEFINITION AND ABBREVIATIONS

PLC Programmable Logic Controller
I/O Input/ Output
HMI Human Machine Interface
CHCR Coal handling control room
P&ID Piping and Instrument Diagram
CV Conveyor


3. PRECAUTION

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Job	Hazard	How to Eliminate Hazard
Operation of electric system	Electric shock cause leak water from line pipe or valves is broken	Use PPE is proper Check daily line pipe, valves and coal pile spray pumps status.
Operation of system	Leak water from line pipe or valves is broken or open/close valves status is wrong.	Check daily line pipe and valves status following design drawing specification

4. PROCEDURE INSTRUCTIONS


ACTIVITY/TASK	ACTION	RESPONSIBLE	REMARK
I. CHECKING 1. Daily Inspection	1. Check lamps on the control panel.	Operator	
	2. Check coal pile spray pumps.	Operator	
	3. Check water hose reel and water hose reel motors.	Operator	
	4. Check switches and controls on the control panel.	Operator	
	5. Check power state of control panel.	Operator	
	6. Check essential devices for damage, trouble, or fault.	Operator	
	7. Check distribution piping for damage or corrosion.	Operator	
	8. Check start/stop switch of the pump to make sure it is operational.	Operator	
	9. Check gauges pressures of pump	Operator	
	10. Check installed state of devices within the flow control box.	Operator	
	11. Check solenoid valves and nozzles for damage, operability, or obstruction.	Operator	
	12. Check state of auto/manual switch.	Operator	
	13. Check cleanliness of surrounding areas.	Operator	
	14. Check accessories for damage or trouble.	Operator	
2. Periodic Inspection	1. HMI	CBO	

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ACTIVITY/TASK	ACTION	RESPONSIBLE	REMARK
Periodic inspections shall be performed by the operator, maintenance engineer, or administrator under the presence of the representative of the owner, at least, every three months.	<ul style="list-style-type: none"> Check operation of all lamps and switches Check switch controls for proper indication or connection to instruments and gauges. Check terminal blocks and power to make sure they are operational. Check operation of the main controls on the control panel. Check operation of the solenoid valve under no load to the control panel. 		
	2. Piping <ul style="list-style-type: none"> Check distribution piping for damage or corrosion. Check pipe connections for damage or corrosion. Check state of pipe supports. 	Operator	
	3. Valves and Instruments <ul style="list-style-type: none"> Check ball valves for damage or leakage. Check fixing state of flow control valve and operation of auto drain valve. Check operation of pressure reducing valve. 	Operator	
	4. Nozzle <ul style="list-style-type: none"> Check connective movement of conveyor belt and spray of spray nozzles. Check nozzles if they are sprayed in exact locations and directions. Check nozzles for foreign materials and clean them on a regular basis. 	Operator	
II. OPERATE SYSTEM	1. Condition open solenoid valves at automatic mode: <ul style="list-style-type: none"> CV04 A/B running Primary scraper arm operating Secondary scraper arm operating 		
	2. Start sequence	Operator	

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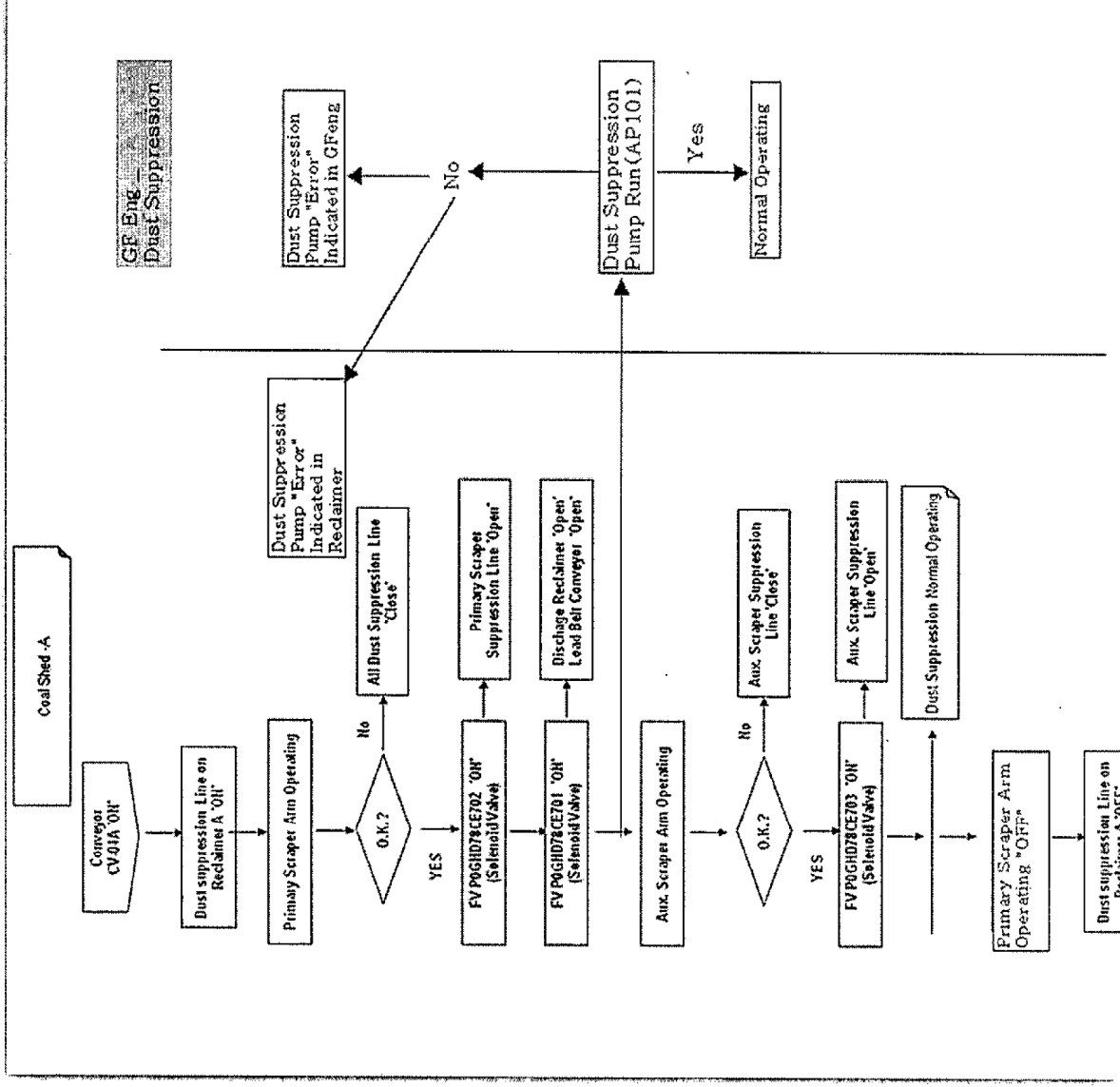
ACTIVITY/TASK	ACTION	RESPONSIBLE	REMARK
	<ul style="list-style-type: none"> Step 1: Open/close valves at outside as attachment 1 Step 2: Open solenoid valves at operator control panel of reclaim A/B by select enable when: Solenoid valve FV_78CE701/ FV_79CE701: Open dust suppressor for discharge chute reclaim A/B when CV04A/B run Solenoid valve FV_78CE702/ FV_79CE702 : Open dust suppressor when primary scraper arm reclaim A/B running Solenoid valve FV_78CE703/ FV_79CE703: Open dust suppressor when secondary scraper arm reclaim A/B running Note: The solenoid valves will automatic open/ close following as time set on/off 		
	<ul style="list-style-type: none"> Step 3: Start one coal pile pump AP101 (P0GHD68AP101) on HMI (AP101/API02). Pump AP102 (P0GHD68AP102) is at standby status. Note: If change coal pile pump to auto mode then when pump will auto turn on when water pressure in pipe low and auto turn off when water pressure in pipe high 	CBO	Check pressure outlet on HMI or pressure gauges PS P0GHD50CE25 2 Check water level at nozzles
3. Stop sequence	<ul style="list-style-type: none"> Step 1: Stop coal pile spray pump AP101 (P0GHD68AP101) Step 2: Close solenoid valves 	CBO	Check status of pump
Prepared by:		Operator	
		Approved by:	


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5. ALGORITHM FLOWCHART WHEN RUN AUTO MODE

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No.	Description	Tag No.	Status
1.	Suction isolate valve of pump (AP 101)	P0GHD68AA103	Open
2.	Discharge isolate valve of pump AP 101	P0GHD68AA101	Open
3.	Return isolate valve	P0GHD68AA102	Open
4.	Suction isolate valve of water hose reel motor (inside coal shed)	Miss KKS	Open
5.	Ball valve of water hose reel	P0GHD83AA101/P0GHD82AA101	Open