

Langa Nhlabathi

Mzwakhe Simelane



## APPENDIX 6: BABCOCK & WILCOX MILLS

### TASK: INSPECTION, REPORTS AND REPAIRS FOR 1 DAY OUTAGES

#### SERVICE ACTIONS

##### INSPECT THE FOLLOWING:

##### 1. REJECT BOX

- a. Check the grating for any abrasive damage holes. Check if light is in operation.
- b. Check the hopper casing for holes and abrasions, also check gasket between mill housing and reject box.
- c. Check that the deflector plate isn't bent, cracked or worn
- d. The inner door handle for any damage of the window
- e. Check for holes cracks or any damage of the window washer water supply bend.
- f. For cracks, blockage and holes on the overflow drain pipe.
- g. Water seal drain valve extension. If any damages, carry out repairs.

##### 2. REJECT LINE

- a. Check the pipework and 1 St joint after jet pump flange for abrasion damage or holes
- b. Check that audco valve handle square and not damaged.
- c. The dist piece between reject box and jet pulsing pump for any holes abrasions and damages.

##### 3. REJECT CHAMBER

- a. Check the casing wall for holes, worn patches and cracks.
  - b. The outlet casing for holes, wear and cracks.
  - c. The PA ducting for holes, leaks and abrasions.
4. Trench covers that they are not bent, broken or missing.
  5. Check covers outlet ducting casing for holes cracks and any apparent damage.
  6. Check the raw coal pipe for holes and cracks from feeder outlet to mill inlet (have scaffold build to inspect feeder outlet) pay special attention to wall thickness at feeder outlet  
Inspect mill outlet duct, paying particular attention to themill outlet duet roof.

## **5.5 SERVICE ACTIONS**

### **7. CLASSIFIER**

- a. Check all vanes for cracks and broken pipes.
- b. Check the stays for not being bent worn or cracked.
- c. Check the inner cone for abrasions, cracks and holes.
- d. Check vane wear shoes and renew if necessary.
- e. Inspect Vortex finder and record length (should be 894mm).

### **8. THROAT CASING**

- a. Check the frame for cracks holes and any apparent damage.
- b. Check the throat for damage and that the gap is between 9.5 to 10mm.
- c. The deflector lines for holes and cracks.
- d. The gap between the throat and grinding ring to be between 9.5 and 10mm.
- f. Throat area to be between  $0.59\text{m}^2$  and  $0.61\text{m}^2$  on a refurbished/new mill.
- e. Flapper door and flapper deflector plates for excessive wear and holes.

- 9. Handrails walkways and door hinges for any damage.

### **10. SUMP**

- a. Check the covers and hinges.
- b. The ladder for cracks, broken parts and any bent parts.
- c. Check the handrail kick plates for any loose or broken plates.
- d. Check seal between kick plates and boiler floor.

### **11. FEEDER**

- a. Check the side door hatches for holes cracks and wear.
- b. Raw coal inlet deflector plates for wear holes cracks and that it isn't bent.
- c. Cleanout conveyor angle iron chain cover not damaged or cracked.
- d. To assist fitter.

- 12. If any damage to the above mentioned raise defects.

- 13. Fill in the information requirements and the QCP of inspection.

## 2. HYDRAULIC PIPES

Inspect the hydraulic pipes for wear and tear. Replace if necessary.

### WITNESS POINT:

.....  
 Plant specialist      Signature      Date  
 Notification No: .....

## 5.6 HISTORY REQUIREMENTS

WHAT WAS THE CONDITION OF THE FOLLOWING AND WHAT ACTION WAS  
 TAKEN TO RECTIFY IT?

### 1. REJECT BOX

	CONDITION	ACTION TAKEN
A. GRATING	.....	.....
B. HOPPER CASING	.....	.....
C. DEFLECTOR PLATE	.....	.....
D. INNER DOOR HANDLE	..... .....	..... .....
E. WINDOW WASHER WATER SUPPLY BEND OVERFLOW DRAIN PIPE WATER SEAL DRAIN V/V EXTENSION	..... ..... ..... ..... .....	..... ..... ..... ..... .....

### 2. REJECT LINE

	CONDITION	ACTION TAKEN
A. PIPEWORK 1ST JOINT AFTER JET PUMP FLANGE AUDCO V/V HANDLE SQUARE	..... ..... ..... .....	..... ..... ..... .....
C. DIST PIECE BETWEEN REJECT BOX JET PULSATION P/P	..... ..... .....	..... ..... .....

### 3. REJECT CHAMBER

	CONDITION	ACTION TAKEN
A. CASING WALL	.....	.....
B. OUTLET CASING	.....	.....
C. PA DUCTING	.....	.....
4. TRENCH COVERS	.....	.....
5. OUTLET DUCTING CASING	..... .....	..... .....

## 5.6 HISTORY REQUIREMENTS

6. RAW COAL PIPE	.....	.....
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**7. CLASSIFIER**

<b>A. ALL VANES</b>	.....	.....
<b>B. STAYS</b>	.....	.....
<b>C. INNER CONES</b>	.....	.....

**8. THROAT CASING**

<b>A. FRAME</b>	.....	.....
<b>THROATS (SLOT GAP)</b>	.....	.....
<b>C. DEFLECTOR PLATES</b>	.....	.....
	<b>CONDITION</b>	<b>ACTION TAKEN</b>
<b>D. GAP THROAT AND GRINDING RING</b>	.....	.....
<b>E. FLAPPER DOOR AND FLAPPER DEFLECTOR PLATES</b>	.....	.....
<b>9. HANDRAILS, WALKWAY DOOR HINGES</b>	.....	.....
<b>10 SUMP</b>		
<b>A. COVERS AND HINGES</b>	.....	.....
<b>B. LADDER</b>	.....	.....
<b>C. HANDRAIL KICK PLATES</b>	.....	.....
<b>11 FEEDER</b>		
<b>A. SIDE DOOR HATCHES</b>	.....	.....
<b>B. RAW COAL INLET DEFLECTOR PLATES</b>	.....	.....
<b>C. CLEAN OUT CONVEYOR ANGLE IRON CHAIN COVER</b>	.....	.....

**SPARES USED**

<b>STOCK NUMBER</b>	<b>DESCRIPTION</b>	<b>USED</b>
.....	.....	.....