**GUIDELINES FOR** **BFG LINE CONTROL VALVES (NEAR MAINTENANCE SHED)**

**Responsibility:**

* Objective : - To minimize the BFG Line pressure fluctuation.
* Scope : - Blast furnace BF-1 & BF-2.
* Ref. : - BF-3 Septum valve
* Responsibility : - Control room In-charge.

**Identified Hazards:**

1. Breaking of seal pot due to sudden surge in BFG pressure
2. Gas poisoning due to seal pot breaking.
3. Gas poisoning during routine checking of valves

**Guidelines under different conditions of both furnaces:**

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| **Furnace conditions** | **601 (400mm Control valve, 27Mtrs side)** | **602 (400mm Control valve, admin side)** | **603 ( 700 mm, Main valve)** | **Mode** | **Remarks** |
| **Both Furnace on full wind** | 500 | 600 | 50% Close | Auto | System in Auto Mode |
| **One furnace abnormal & 2nd Furnace full Wind** | 500 | 600 | 50% Close | Auto | If Line pressure goes below 250 mmWC than 603 will close to 75 % & will revert back to 50 % Close position once line pressure goes to 700 mmWC |
| **One furnace shutdown & 2nd Furnace abnormal** | 500 | 600 | 50% Close | Auto | If Line pressure goes below 250 mmWC than 603 will close to 75 % & will revert back to 50 % Close position once line pressure goes to 700 mmWC. Stoves will not be isolated |
| **One furnace shutdown & 2nd Furnace abnormal** | 500 | 600 | 50% Close | Auto | If Line pressure goes below 250 mmWC than 603 will close to 75 % & will revert back to 50 % Close position once line pressure goes to 700 mmWC. Stoves will isolate below 150 mmWC pressure. |
| **Both furnaces shutdown/ Power failure case** | 500 (Auto close) | 600  (Auto close) | 100% Close  (to be manually closed) | 603 in Manual | If Line pressure goes below 250 mmWC than 603 will close to 75 % & will revert back to 50 % Close position once line pressure goes to 700 mmWC. Stoves will isolate below 150 mmWC pressure.  During startup, 603 valve has to be manually opened |

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| Prepared By:  Head – Production PID I | Reviewed & Issued By:  Management Representative | Approved By:  Head – Pig Iron Division |
| Signature: | Signature: | Signature: |
| Date: **15.07.2022** | Date: **15.07.2022** | Date: **15.07.2022** |