**WORK INSTRUCTIONS FOR\_** **SATURATOR DRIP POT FLUSHING (BF1 & BF2)**

**Responsibility: Furnace in charge**

**Identified Hazards**

1. BF Gas leakage
2. Fire and Explosion in the gas line
3. Contact with hot water
4. Contact with hot surface
5. Fall of person
6. Falling of water from saturator
7. Mechanical Impact
8. Nonuse of PPE, WI
9. Improper house keeping
10. Inadequate local lighting
11. Not carrying CO detector

Human Hazard

1. Working without checking furnace condition
2. working without checking CO gas presence

Significant Aspect:

1. Water consumption

2. Gas leakage

3. Generation of slurry

1. Unauthorized operation is punishable act
2. Ensure furnace is not hanging or having abnormal behavior by checking with control room engineer, if so avoid flushing
3. Check for CO gas presence in an around saturator drip pot
4. Open saturator drip pot back flushing valve
5. Slowly open saturator drip pot flushing valve in such a way that overflows from the saturator drip pot is maintained throughout flushing. Incase overflow from the drip pot is not maintained during the activity then there is the possibility of gas leakage due to breakage of drip pot water seal.
6. Allow thick deposited slurry at bottom of the drip pot to get flushed if required repeat the activity till clean water comes.
7. Close the drip pot valve, close the black flushing valve
8. Saturator flushing to be done 3 times in a shift at equal interval
9. Ensure the trough screens cleaned before flushing the saturator.
10. At the time of saturator flushing operator should call either Engg. Foreman or any operator with him .Valve operation will not be carryout alone. Ensure one observer will be there before operating the Valve.

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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: 10.07.2023** | **Date: 10.07.2023** | **Date: 10.07.2023** |

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| **Amendment Record** | | | |
| **Revision date** | **Manual Section ref. and para** | **Brief details of revision** | **New Revision No.** |
| 12.07.2021 | Procedure for Drip pot flushing (BF1&BF2) | Point no 2 | 10 |
| 15.07.2022 | Procedure for Drip pot flushing | Point no.5 , 6 | 11 |