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Objective : Safe working/maintenance on Goulitine Damper in Boiler 1/2
Scope : Power Plant
Responsibility : Plant manager, Shift I/C, Operator
PPEs to be used : Helmet, Safety shoes, safety hand gloves, ear plugs, nose mask, Goggles

Aspect-Impact

Scrap Generation Resource Depletion

Hazards Identified

Mechanical Hazard - Entanglement
 - Fall of man/ material from height
 - Impact of moving/slanged items.
 -.Failure of Sling
 - Toppling of crane
 - Crane Wire rope Snatching
 - Cut injury
 Physical Hazard Burn Injury
 Suffocation
 Health hazard CO gas poisoning
 Electrical Hazard Electric Shock
 Human behavior improper housekeeping
 Non use of PPEs
 Alcoholism
 Overconfidence
 Negligence
 Improper body positioning


Safety precautions:

1. Avoid using mobile phone while working.
2. Use appropriate tools required for the job.
3. Electrical equipments used should be thoroughly certified by Electrical Engineer.
4. After job always do proper housekeeping.
5. Always prevent body from line of action of force.
6. Perform proper communication verbal and non-verbal as required.
7. 24 volt DC supply should be used for providing illumination

PRECHECKS:-

1. Take electrical shutdown for the required equipment in consultation with electrical & operation departments
2. Take work permit

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HOD – Mech – PP	Head – Power	MR
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3. Ensure proper illumination while working
4. Other procedures to follow: SP44

Work No 1: Procedure for dismantling the Goulitine Damper

1. Take work permit from operations for working on Boiler GD
2. Take electrical shutdown of the Actuator and disconnect the power and control cables.
3. Remove the actuator by opening the M16 bolts.
4. Remove the gratings and support structure in front of the GD
5. Place 100Ton Crane at required location
6. Dismantle the platforms which will foul with the crane while removing the Damper
7. Sling the Equipment at the bonnet cover. Proper sling to be used as the weight of the GD will be around 12 T.
8. Ensure the Boom top, Crane hook and Weight are in Straight line.
9. Once all the Bonnet cover bolts are cut and punched and GD is free from the structure start lifting the load with the Crane.
10. Slow lifting to be done as the disc should not foul with the Common Duct.
11. Once the Disc is free and completely out of the common duct start the slewing moment of the crane
12. Lift the cut piece and shift it at the bottom.
13. Shift the removed piece at a safe location.
14. Put Ceramic cloth on top of the opened bonnet and cover the same with a dummy plate and bolt the same.
15. Install the new damper gate fabricated above the dummy plate with proper supporting structure.

DO :

- ✓ Ensure Crane Checks done before lifting
- ✓ Ensure the verification of the lifting tools & tackles & electrical equipment's before use.
- ✓ Proper Housekeeping to be done after job is completed.

DO NOT :

- X Use mobiles while working
- X Indulge in the Horse Play

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