Job Hazard Analysis

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| Task/Equipment: | Removal of Burner, Summer Boiler  |
| Department: | Powerhouse |
| Analyzed By: | Bill Partin & Bryana Borders |
| Date: | 4/12/19 |

**Personal Protective Equipment Required:**

**Heavy Leather Gloves**

**Hard Hat**

**Trainings Required\*/Recommended:**

Proper ladder use\*, **OSHA 10**

**Equipment/Tools/Chemicals Required for the Job:**

Hand wrench, washers, nuts, pipe wrench, screw driver, ladder and flash light

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| **Tasks/Steps** | **Hazards Present** | **Safety Measures and Controls** |
| 1. Open main power disconnects, and turn off control switch at burner panel. Secure using lockout tag out protocol
 | No hazards present | N/A |
| 1. Shut off main gas valves (2) and shut off pilot gas valve. Secure with lock-out tag-out protocol
 | No hazards present | N/A |
| 1. Attach chain fall to burner housing and support burner
 | Ladder fall | Proper ladder use |
| 1. Disconnect Gas line from burner at union
 | No hazards present | N/A |
| 1. Loosen and remove hex nuts holding burner to mounting flange
 | Finger pinch | Use heavy leather gloves |
| 1. Disconnect and remove gas pressure switch and store in a safe place
 | No hazards present | N/A |
| 1. Remove main flame and pilot scanner and secure
 | No hazards present | N/A |
| 1. Disconnect all pilot lines and set aside
 | No hazards present | N/A |
| 1. Remove all vent lines and set aside
 | Ladder fall | Proper ladder use |
| 1. Remove burner support stanchion and set aside
 | Falling objects | Stay clear and position an assistant to operate chain fall  |
| 1. Remove gas recirculation piping and set aside
 | Ladder fall  | Proper ladder use |
| 1. Remove burner muffler and set aside
 | No hazards present | N/A |
| 1. Move burner back from boiler along support-rail flame
 | Falling object | Stay from under burner at all times |
| 1. Inspect furnace and combustion chamber
 | Ladder fall | Proper ladder use |
| 1. Cordon off area with red caution tape
 | Falling objects | Stay clear |

**Additional Information:**

* This is a two person task

Lab Coat

Protection Suit

Fall Protection Harness

High Vis Vest

Safety Shoes

Splash Goggles

Cryogenic Gloves

Dust Mask

Respirator

Face Shield

Safety Glasses

Ear Protection