



Clarksville SMO 2025 Induction



Parking:



- Use the main parking lot, unless otherwise directed
- Reverse park for safety
- Be careful to not leave hitches or tailgates in designated walkways.
- Vehicles coming on site needs to be limited and permitted,



Site Notification: Parking Overflow

To All Nyrstar Clarksville Employees,

It was previously announced that the areas along the road and fence were to be utilized for overflow parking. Effective immediately parking in the overflow areas is prohibited. Please resume parking only in the parking lot. Make sure this information is communicated to all of the contractors onsite.

Individual Required Documents:



- Sign in sheet stating you have fully read & agreed to the items discussed in this presentation
- Current safety training records
- Current Drug Screening

Access to Site- Contractors:



- Contractors must report to the security office on day one of their arrival to check in and receive their access card
- All Requirements listed on the previous page must be turned in and current PRIOR to any team member being allowed entry to the Nyrstar plant. (Please make sure all documentation is sent by email to the Nyrstar Safety team prior to your team arriving)
 - Terry.mart@nyrstar.com
 - Brett.armstrong@nyrstar.com
 - Tyree.simmons@nyrstar.com
 - If you contract another company they must get this information from you as well.

Contractor Obligations:



- Full Compliance with the Shut Safety Management Plan
- Communicate these Obligations from the Shut Safety Management Plan to your Personnel prior to the start of work
- Provide all necessary PPE to your personnel
- Report all injuries and near misses to the Nyrstar Safety Department and Project Manager immediately (same shift)
- Report any environmental issues to Nyrstar Safety Department & Project Manager immediately.
- Achieve the Key Performance Indicators for Injuries
 - No Lost Time Incidents or Medical Recordable Injuries

Emergency Procedures:



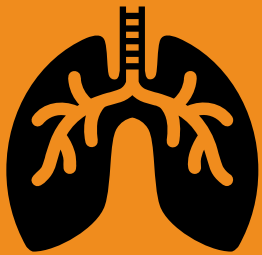
- **Plant Weather alarm will be used for all weather related emergencies (Long Siren Wail sound)**
- **Evacuation notification of the Roaster area will be by 4 air horn blasts and announcement and by radio contact**
- **Respond to the designated Employee Assembly Areas and account for your personnel**

Basic PPE Requirements :



- ANSI Approved Hard Hats w/Hi Viz
- ANSI Approved Safety Toed Footwear
- ANSI Approved Eyewear w / Side Shields
- Long Pants
- Hi-Viz with reflective stripes on the Upper Body – ANSI Type II
- Long Sleeves
- Gloves
- Respirators as needed
 - Medical & Fit Tests less than 1 year old must be on file with Nyrstar Safety if a negative pressure respirator will be used & clean shaven

Respiratory Protection:



Demolition / Cleaning inside roaster or boiler, or Cutting of refractory brick

- Minimum level of respiratory protection for those involved in the demo or cleaning inside the roaster or waste heat boiler shall be any powered, air purifying respirator (PAPR) with a helmet and hood (APF = 1,000) OR Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus.
- Minimum level of respiratory protection for anyone demolishing, dry-cutting or grinding refractory brick shall be any PAPR with a tight-fitting face piece and a high-efficiency particulate filter (APF = 50). This can be achieved by any PAPR with a tight-fitting face piece and a high-efficiency particulate filter OR by any air-purifying, full-facepiece respirator with an N100, R100, or P100 filter.

Respiratory Protection (cont.):



Other work in regulated area

- For other work in the regulated area, the minimum level of respiratory protection shall be any particulate respirator equipped with one of the following filters: N95, R95, P95, N99, R99, P99, N100, R100, or P100 (APF = 10). No quarter-mask respirators shall be used; half-face is the minimum standard.
- Anyone wet-cutting refractory brick will also use this level of respiratory protection as the minimum standard. Anyone demolishing, dry-cutting or grinding refractory brick will use the higher APF = 50 standard of respiratory protection

Chemical Management



- We have SDS's on all chemicals onsite. Each department/job owner can access them at all times.
- All outside chemicals brought onto plant site must be accompanied by a safety data sheet (SDS)
- All chemicals must be stored properly in accordance with state and federal regulations
- Do not leave any chemicals behind without approval from our environmental manager or SHEQ Team.

Spills



- All spills, wet or dry, must be reported immediately.
 - If you notice a spill, contain it as quickly possible and report it to your job owner.
 - If you make a spill, contain it as quickly as possible and report it to your job owner.

Shut Activities:



- **Respect Barricaded Areas**
 - **Red – No entry without permission from the owner of the baricade**
 - **Yellow – Check for hazards before entry & make sure to be wearing the appropriate PPE**



- **Hang a barricade tag on each side of barricade that warns all of the hazard and identifies the owner of the barricade.**
- **Do not leave trash items behind & clean up after yourself**

Shut Activities (cont.):



- **Traffic – Vehicles, Mobile Cranes and Personnel**
 - Use spotters when backing or in congested areas
 - Seat belts use is mandatory
 - Flashing light & back up alarm required
 - Pedestrians need to use designated walk ways
- **Emergency Response (Security Channel on Radio)**
 - Local emergency responders are 15 minutes away
- **Accident / Near Miss Reporting Requirements**
 - Report to contractor supervisor and Nyrstar job owner & Nyrstar Safety department immediately (same shift)
- **‘Stop for Each Other’ Program**
 - This is Nyrstar’s job task observation program. Others may stop and observe your work and discuss with you.

Shut Activities (cont.):



- SOPs and Risk Assessments
 - Reviewed and Completed Prior to Tasks

Note: If there are any scope changes during work, stop work and notify job owner to see about approval prior to moving forward. This will also mean a new risk assessment will need to be completed & verified.

- Isolations and Lock Out
 - **Brown Locks** with Tags that ID Contractor, Employee & Date are required for each team member on site. (no nicknames)
 - Each Contractor Group must be kept on the same multi-lock hasp.
 - Locks need removed at end of work day & will be re-isolated the following morning.

Shut Activities (cont.):



- **Documented Lift Plans**
 - Must be completed and approved by Nyrstar Safety prior to lifts of 2 Short Tons or more. Mobile Cranes will Sound Horns prior to Lifts and must be barricaded at all times. Never walk under a suspended load.
- **Confined Space Entry Requirements**
 - Entry Permits / Attendants w/ Radio / Air Monitoring (before & during any entry)
- **Hot Work Permits**
 - Welding, Cutting, and Grinding
 - Mandatory Fire Watch – 60 minutes after task is complete

Shut Activities (cont.):



- **Working at Heights**
 - Any work location where personnel can fall
 - Use an SRL (yo-yo) while on Aerial Lifts
 - Red Barricade with tags must be placed around work area
 - Scaffolding – Pre-use Documented Inspections & Must have a Green “OK” / Yellow Tag before use
 - Tether/lanyard your tools while working at heights

Shut Access Route:



- Site Map provided to contracted company
 - Check in @ security & go through gate
 - Right onto main street
 - Left into Roaster/ Acid/ Converter/ Cooling Towers
- Vehicles on site must be permitted at security
 - Please limit this as much as possible due to heavy foot traffic
 - Check with project owner for specific routes to your working area
- The Map includes dumpster locations. Ensure the proper items are being disposed of in the correct type of dumpster.

PLANT MAP:



SUBJECT
TO
CHANGE



Legend

- Break Tent (on-site equip)
- Light Tower (13)
- 8YRD Dumpster (1 on-site equip)
- 30YRD General Trash Dumpster (8 on-site equip)
- 30YRD Metal Dumpster (2 on-site equip)
- Porta-Johns with Handwash station inside (7 on-site equip)
- Pedestrian Walk Path
- Water wall fab
- 14' Special Waste (Dumpster for refractory) (8)
- Contractor areas (Equipment and belongings)
- Mobile equipment staging area
- 16' Special waste dumpster(South exterior of the Cast House)

Working Hours:



- Working hours will be limited to no more than thirteen hours a day, with at least 10 hours offsite. As well as, no more than thirteen consecutive days without a day off.
 - Exceptions will be made on a case-by-case basis with approval of a Nyrstar manager

Medical Station:



- Nyrstar will Provide a designated area for Medical supplies and Emergency Equipment. This will be located in close proximity to the SHUT area and will be clearly marked.
- A Hydration Station will be set up in the same area for convenience and for visibility.
- Please make sure to familiarize your team with this area prior to beginning work.

Heat Stress Management:



- Contractors are expected to manage their heat stress exposures in accordance with the NIOSH Work/Rest Schedules on the next slide. Cooling methods including ventilation should be employed as necessary to maintain the temperature of work areas in the green/"Normal" zone according to the NIOSH Work/Rest Schedules chart.
- Rest and Hydration Areas will be provided near the SHUT areas.

Heat Stress Management:



HEAT STRESS Work/Rest Schedules

Examples of Work at Different Intensity Levels

Light work

- Operating equipment
- Inspection work
- Walking on flat, level ground
- Using light hand tools (wrench, pliers, etc.). However, this may be moderate work depending on the task
- Travel by conveyance

Moderate work

- Jack-leg drilling
- Installing ground support
- Loading explosives
- Carrying equipment/supplies weighing 20–40 pounds
- Using hand tools (shovel, fin-hoe, scaling bar) for short periods

Heavy work

- Climbing
- Carrying equipment/supplies weighing 40 pounds or more
- Installing utilities
- Using hand tools (shovel, fin-hoe, scaling bar) for extended periods

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Institute for Occupational Safety and Health

DHHS (NIOSH) Publication No. 2017-127



Temperature (°F)	Light Work Minutes Work/Rest	Moderate Work Minutes Work/Rest	Heavy Work Minutes Work/Rest
90	Normal	Normal	Normal
91	Normal	Normal	Normal
92	Normal	Normal	Normal
93	Normal	Normal	Normal
94	Normal	Normal	Normal
95	Normal	Normal	45/15
96	Normal	Normal	45/15
97	Normal	Normal	40/20
98	Normal	Normal	35/25
99	Normal	Normal	35/25
100	Normal	45/15	30/30
101	Normal	40/20	30/30
102	Normal	35/25	25/35
103	Normal	30/30	20/40
104	Normal	30/30	20/40
105	Normal	25/35	15/45
106	45/15	20/40	Caution
107	40/20	15/45	Caution
108	35/25	Caution	Caution
109	30/30	Caution	Caution
110	15/45	Caution	Caution
111	Caution	Caution	Caution
112	Caution	Caution	Caution

Additional Information



- Food trucks will be stationed by security with schedule on the site TVs & weekly newsletter. We have 2-3 trucks a week from ~11a-1p
- There is an open air vending area located in the asset management building– note these items need to be paid for and are monitored by video, anyone caught taking items not paid for will be removed from the site.
- Contractors are not permitted to go in the change house or gym for any reason.
- All debris, hazardous materials need to be removed prior to leaving the site.

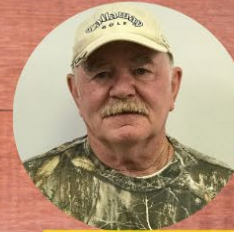
Questions? Please reach out.



TYREE SIMMONS,
SHEQ MANAGER



ANNETTE REESE
ENVIRONMENTAL MANAGER



TERRY MART
SAFETY ADVISOR



BRETT ARMSTRONG
SR SAFETY ADVISOR



STAN CALLIS
INDUSTRIAL NURSE



Callie George
Training Coordinator

THE SHEQ TEAM

SAFETY | HEALTH | ENVIRONMENTAL | QUALITY



OUR LIFE- SAVING RULES

The **Life-Saving Rules** are a condition of employment and must always be followed.

The **Life-Saving Rules** apply to everybody, employees, contractors, service providers and visitors.

Life-Saving Rules takes precedence over tasks that cannot be carried out in a safe and healthy manner.

If you observe someone else failing to follow a **Life-Saving Rule**, you must intervene immediately if it is safe to do so.



THE nyrstar
LIFE-SAVING RULES

