**Scope and Objective**

This procedure establishes the PPE requirements for all areas in the melt shop and to ensure compliance with the OSHA standard for Personal Protective Equipment 29 CFR 1910.132. For the general rules for Personal Protective Equipment see document # 1390.

**Responsibilities**

All team members, contract team members, visitors, and visitors who are performing work on site.

**Activities**

All PPE requirements apply to everyone in the melt shop.

**VISITORS**

All visitors are required to wear the approved PPE for the areas they visit. At a minimum, visitors inside the plant will wear a hard hat, safety glasses, ear plugs, approved green jacket, and no open toe shoes. No rings are allowed to be worn inside the plant while performing any work but if a ring cannot be removed for any reason, they are allowed to be worn underneath gloves. Rings are allowed if the visitors are just on a tour as long as they will not be placing their hands on any equipment. Long hair is to be kept in the hard hat or tucked underneath the green jacket if possible. Long dangling earrings are prohibited.

**NEWLY HIRED TEAM MEMBERS**

New Hires during their 90-day probationary period will wear an orange hard hat so that other team members in an area will be aware that extra caution should be used and to keep the new team member informed of all potential hazards that exists during all situations. Please refrain from putting any stickers on the orange hard hats.

**ALL NUCOR MELT SHOP TEAM MEMBERS: MINIMUM** **REQUIREMENTS INSIDE THE SHOP**

* Hard hat, worn with the brim facing forward (not required inside pulpits)
* Ear plugs (not required in pulpits)
* Approved steel toe boots with internal or external metatarsal guard
* Safety glasses (not required in pulpits)
* Outer garment – approved flame-resistant pants and approved flame-resistant long sleeve shirts worn down to the wrist.
* Approved gloves
* Neither undergarments nor outer clothing must be washed with fabric softener.
* No dangling earrings

**APPROVED WORK GLOVES ARE AS FOLLOWS:**

* Welding
* Welding with cuff
* Steelman
* Steelman with cuff
* Black Nomex
* Double palm
* Leather
* Cut Resistant and Heat Resistant High Dexterity

**NOTE: The PPE requirements specified below are in addition to the minimum requirements.**

**EAF PPE Requirements by Exposure –** PPE requirements are determined by the physical hazards presented during the execution of the tasks. They are grouped together in this document as a reference to provide guidance of which types of tasks require a generalized set of PPE, however each task should be analyzed individually for the hazards presented at the time.

**PPE for Exposure to Molten Metal and Tasks:**

* Work shirt – approved flame-resistant long sleeve shirt
* Jacket – Green FR cotton jacket
* Undergarments - approved long sleeve shirts and pants such as FR control or Frost Fire
* Pants – Green FR cotton pants
* Welding gloves with Kevlar cuff. If not available, then regular welding gloves with Kevlar inner sleeves. Steelman with cuff, Steelman with inner sleeves, Steelman with Black Nomex underneath.
* Gold Face shield
* Carbon-x or approved carbon fiber snood

1. Taking Manual Temps
2. Lancing the tap hole from the sump

**PPE for Exposure to Radiant Heat and Tasks –**

* Jacket – Green FR cotton jacket
* Undergarments - approved long sleeve shirts and pants such as FR control or Frost Fire
* Pants – Green FR cotton pants
* Approved work gloves
* Gold Face shield
* Carbon-x or approved carbon fiber snood

1. Inspecting the furnace from the sump
2. Inspecting the furnace from the slag door
3. Cleaning the Temp Port
4. Lancing the tap hole from the EBT
5. Gunning the furnace
6. When entering Consteel without shield
7. Removing wedges for a tap hole change from the EBT platform

**PPE for Exposure to EAF Deck and Tasks -**

* Jacket – Green FR cotton jacket
* Work Shirt – Approved flame-resistant work shirt
* Undergarments - approved long sleeve shirts and pants such as FR control or Frost Fire
* Pants – Green FR cotton pants
* Approved work gloves

1. Taking Temps with Robot
2. Adding an Electrode at Offline Station
3. Rebuilding Temp Poles

**Working on LMF Deck during normal operations**

* Jacket – Green FR cotton jacket
* Outer garment – approved flame-resistant pants and long sleeve shirts worn down to the wrist
* Undergarment: approved long sleeve shirts and pants such as FR control or Frost Fire
* Approved work gloves
* Snood
  + Required for all LMF Operators
  + Required for visitors and non-LMF team members if working on the deck or going from one end of the deck to the other while arcing.

Taking temps and samples at LMF

* PPE required for LMF deck during normal operations
* Gold Face shield

Observing stir condition in the ladle

* PPE required for LMF deck during normal operations
* Gold Face shield

Ladle Wall

* Jacket – Green FR cotton jacket
* Outer garment – approved flame-resistant pants and long sleeve shirts worn down to the wrist
* Undergarment: approved long sleeve shirts and pants such as FR control or Frost Fire
* Approved work gloves

Refractory

* Long sleeve shirt worn down to the wrist is OK in refractory areas if not doing hot work (green jacket not required)
* Approved work gloves
* Respirators and dust masks are available at the warehouse.
* Personnel must be fitted for respirators by the Safety Department prior to checking them out from the warehouse.
* For hot patch, green jackets are required

Caster (on the mold)

* Work Shirt: approved flame-resistant long sleeve shirt
* Undergarment: approved carbon fiber garment long sleeve shirts and pants such as Carbon-X or Fire Frost (year-round)
* Approved FR Jacket (Kevlar, aluminized, black carbon-x, or green jacket)
* Face shield
* Approved work gloves
* Snood

Caster (on the Tundish Cars during casting)

* Work Shirt: approved flame-resistant long sleeve shirt
* Undergarment: approved carbon fiber garment long sleeve shirts and pants such as Carbon-X or Fire Frost (year-round)
* Approved FR Jacket (Kevlar, aluminized, black carbon-x, or green jacket)
* Face shield
* Welding gloves with Kevlar cuff. If not available, then regular welding gloves with Kevlar inner sleeves. Steelman with cuff, Steelman with inner sleeves, Steelman with Black Nomex underneath
* Snood

Caster Water and Hydraulic Room

* Long sleeve shirt worn down to the wrist is OK if not doing hot work (green jacket not required)

Caster Runout

* Long sleeve shirt worn down to the wrist is acceptable if not doing hot work (green jacket not required).

Caster Floor when cutting a head or tail crop

* Green Jacket
* Leather gloves or better
* Face shield with a dark shade

Mold and Segment

* Flame resistant long sleeve shirt when cutting or welding.

Vacuum Tank Degasser Deck While Ladle is in Tank without Cover

* Work Shirt: approved flame-resistant long sleeve shirt
* Undergarment: approved carbon fiber garment long sleeve shirts and pants such as Carbon-X or Fire Frost (year-round)
* Green Jacket (no Kevlar or Carbon X)
* Approved work gloves
* When taking manual samples and temps welding gloves with Kevlar cuff. If not available, then regular welding gloves with Kevlar inner sleeves. Steelman with cuff, Steelman with inner sleeves, Steelman with Black Nomex underneath
* Face shield and snood

The back exit of the pulpit can be used for entry and exit for visitors without proper PPE for the deck.

Shred Separator (in addition to the minimum requirements)

* Hearing protection while in operation
* High Vis Shirt, Jacket or Vest