1 Status

1.1 Update of existing policy, effective 11/18/11.

2 Purpose

2.1 To eliminate the possibility of an eye injury.

3 Applicability

3.1 This policy applies to all subsidiary companies and departments of The Cianbro Companies.

3.2 All organizations are required to comply with the provisions of this policy and procedure. Any deviation, unless spelled out specifically in the policy, requires the permission of the Corporate Safety Officer or designee.

4 Definitions

4.1 Donning and Doffing: Putting on and taking off the protective clothing or PPE.

4.2 Double Eye Protection: The use of two means of eye protection during any activity where projectiles (slag, filings, chips, dust, sprays, spatters, etc.) may result from the activity. This means safety glasses and a face shield or the use of goggles and a face shield.

4.3 Full Coverage Face Shield: A face shield assembly that attaches to a hard hat, wraps around the side of the face, and includes a chin cup.

5 Policy

5.1 The use of appropriate safety eyewear is required on every Cianbro Companies work site with the exception of office and lunch areas.

6 Responsibilities

6.1 The Corporate Safety Officer or designee is responsible for providing approval for the use of any requested variance under this policy.

6.2 The top Cianbro manager on the job site is responsible for the implementation of this policy on the project.

6.3 The corporate safety department is responsible for maintaining this document.
7 Eye Protection Index

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7.1 Minimum Standards for Eye Protection

7.1.1 All persons on a Cianbro jobsite must wear safety glasses with rigid side shields 100% of the time with the exception of office environments.
- All activities involving work where conditions exist with airborne particles flying around (i.e. wood yards, windy bridge decks, enclosed spaces, etc.) shall require the use of goggles.

7.1.2 Double eye protection is required when operating any power tool including but not limited to electric, air (pneumatic), hydraulic, battery, gas or powder actuated.

7.1.3 When operating power tools in high risk activities, tight fitting goggles instead of safety glasses are required with a Bullard or Sellstrom full coverage face shield. High risk activities are any activity in which the airborne particles can’t be controlled. They include working overhead, working in enclosed spaces, activities with wind blown particles, or where ricochet of particulates are present.
- In high hazard situations such as demolition activities, a full face respirator (Cartridge style, PAPR, or supplied air) is highly recommended as it protects extremely well against the eye hazard and also protects against breathing in airborne hazardous materials.

7.1.4 Other Requirements:
- Use engineering controls to eliminate airborne particulate wherever possible (welding screens, shrouded tools, etc.)
- A full coverage welding hood kept in the down position is considered equivalent to a Bullard or Sellstrom full coverage face shield.
- The only approved face shields for use on a Cianbro site are full coverage face shields as defined in section 4.
- Both Sellstrom shade 5 rated faceplates and shade 3 and 5 faceplates made by Fibremetal (that will fit the Bullard shield) are available if burning needs to be done.
- Work inside boilers requires a higher level of eye protection. A full face respirator is required. A JHA (Job Hazard Analysis) may be done to justify alternative eye protection but must be approved at the manager of projects level or higher.
- Full face tight fitting respirators meet the requirement of double eye protection. Glasses or goggles are not required to be worn underneath the respirator, but they are allowed if they do not interfere with the seal between the respirator and the skin.
- Other workers and helpers in the same work areas who face the same hazards require double eye protection also. Assume all workers nearby need double eye protection. Use the activity plan to identify specifically when they don’t.

7.2 Activity Planning (Hazard Identification/Elimination)

7.2.1 Using the Activity Planning process, we must identify all possible hazards to the eyes and communicate the hazards to all affected team members. Under many conditions, including other than the mandatory situations listed above, safety glasses are inadequate and goggles and/or shields or other equipment would be required if the
hazardous conditions cannot be eliminated or controlled. Remember that elimination of
the hazard is the first choice, not PPE.
PPE is always to be used in addition to engineering and administrative controls.

7.3 Examples of Hazards and Solutions

7.3.1 Wind Blown Particles – Use goggles as they provide superior protection and can be
worn over glasses or under face shields.

7.3.2 Congested Work Areas – Set up welding screens, plywood, mill felt, etc., to shield co-
workers from flying debris or flashes produced by drilling, grinding, sawing, welding,
etc. Goggles are required if double eye protection is required.

7.3.3 Chipping Weld Slag – Welders must wear safety glasses or goggles under their hoods
and use flip-up lenses, self-darkening lenses (keeping the hood in the down position) or
an approved Bullard or Sellstrom face shield.

7.3.4 Dust – Use environmental controls such as ventilation, vacuuming or water spray to
eliminate hazards.

7.3.5 Overhead Work – When looking upwards, the eyes are easy targets for loose paint
chips, rust flakes, sand and general debris. Use goggles.

7.3.6 Burning – Use a shade #3 or shade #5 face shield as appropriate with safety glasses or
goggles.

There are an unlimited number of hazardous conditions not listed here. Please use
forethought/planning, available equipment, innovative ideas and caution to eliminate or control
the hazard and ensure personal safety.

7.4 Cleaning and Anti-fog Considerations

7.4.1 Projects shall use Bausch and Lomb #8577 Fog Shield Kit Dispensing Stations or
equivalent for cleaning glasses and goggles on site. These provide anti-fog protection
each time you clean your glasses and are safe for permanent anti-fog coatings on
eyewear.

7.4.2 Sea Drops (“diver’s spit”) may also be used for anti-fog protection.

7.4.3 Do not use ammonia, alkaline cleaners, abrasive cleaning compounds, solvents, or any
“window type” cleaning solutions that could cause degradation to the protective coating
on the lens.

7.5 Donning or Doffing (Removing) Glasses and Goggles

7.5.1 Particles can build up on top of eye protection (glasses, goggles, face shields, welding
hoods, or full face respirators.
A. Donning glasses, goggles, welding hoods, face shields, or respirators.
   • Make sure to clean off all loose materials before placing on your head.
   • Lean forward as you place it on your head.
B. Doffing (Removing) glasses or goggles
   • Make sure you are in an area where it is safe to remove the particular piece of
     personal protective equipment.
   • Vacuum off first if available.
   • Have another team member check for particles and remove if possible.
   • Check for and brush off particles yourself.
   • Make sure to lean forward when removing eye protection so that if anything
does fall down it does not get into your eyes.
7.6 Eye Wear Selection Considerations

7.6.1 In selecting eyewear consider the following:
- UV protection
- Side vision
- Tight/comfortable fit
- Scratch resistance
- Anti-Fog resistance
- Impact resistance

7.6.2 Cianbro has identified a “Preferred Safety Equipment” list indicating suggested make and model of protective equipment. The main considerations in selecting this equipment from the many different types offered are quality, comfort, utility, protection and price. Examples of preferred eye protection equipment offered is as follows:
- Shaded face shields (burning & cutting)
- Glasses and goggles
- Regular face shields
- Welding hoods

7.6.3 Team members must use rigid side shields on safety glasses. The universal flexible side shields are no longer allowed on Cianbro projects and client facilities. An inventory of side shields meeting our requirements must be maintained on each project to accommodate the different styles of prescription eyewear.

7.6.4 In any special circumstance, the project management must provide the best available protection to ensure personal safety.

7.7 Prescription Eyewear Program

7.7.1 For team members with prescription lenses, Cianbro sponsors a prescription eyewear program at each jobsite administered through the Field Administrator or Safety Specialist. All other team members will be issued standard safety glasses at their jobsite.

7.8 Summary

7.8.1 Remember, our goal zero eye injuries can be achieved if we:
- Plan the Activity
- Communicate the Plan
- Eliminate Hazards
- Select the Appropriate Protective Eyewear Equipment for the Task and Conditions

7.9 Safety at Home
Remember to use safe practices and eye protection at home whenever there is a risk of injury to your eyes. Encourage your family members and friends to do the same.

8 Budget / Approval Process

8.1 It is the responsibility of each jobsite to procure and provide all materials and PPE required and provide necessary training.

9 Related Documents

9.1 Documents available on Cianbro.net/Resources/Manuals/Safety Resources/Poster

Procedure for Doffing and Donning Eye, Head and Face Protection Poster