

GBR HAZARD ASSESSMENT AND PPE SELECTION MATRIX		
Minimum PPE required is based on the potential hazard being present. This list is not all inclusive and in cases where the task is not covered or the SWP or Procedure indicates a higher level of PPE, the SWP or Procedure shall be followed.		
Operations Tasks		
Area/Task		Personal Protective Equipment / Monitoring Equipment
1	Acid Truck loading	Chemical gloves based on the SDS for the chemical(s)
		Chemical protective clothing based on the SDS for the chemical(s)
		Rubber boots
		Face Shield
		Respiratory protection, based on the hazard and gas test results.
2	Blowing down taps	Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration
		Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Hazardous Atmosphere
		Respiratory protection, based on the hazard and gas test results.
		Flying debris and/or splashed chemicals
		Face shield and/or Chemical Splash Goggles
3	Boiler Chemicals	Chemical Exposure
		Chemical gloves based on the SDS for the chemical(s)
		Flying debris and/or splashed chemicals
		Face shield and/or Chemical Splash Goggles
4	Cleaning Sultrap baskets / Checking Sultrap Boxes	Hot Objects
		Heat-resistant gloves
		SCBA or Supplied Air
5	Electrical Work	Hazardous Atmosphere
		PPE rated for the estimated incident energy. See NFPA 70E or Electrical Safe Work Practices RSP-1162-000 (Attachment D)
6	Entering Analyzer Shelter Building	Detection of Hazardous Vapors
		Follow GBR PR-17 General Safety Rules for Analyzer Building Entry
		Multi-gas monitor (minimum of O ₂ LEL, H ₂ S and CO)
		UltraRae 3000 (benzene) when required
7	Working at Heights (Scaffolds, Manlifts, Leading Edge, Etc.)	Safety harness + Self-retracting lanyard, as required by the GBR PR-7 Fall
		Protection Policy and GBR EQ-4 Scaffold Policy
8	Manually lighting heater pilots or burners	Falls from elevation
		FRC Nomex Hood
		Gauntlet style leather gloves
		Faceshield
9	Opening/closing valves, using hand or powered tools, climbing, etc.	Flying debris
		Face shield
		Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration
		Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
10	O ₂ freeing the unit	Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration
		Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Flying debris and/or splashed chemicals
		Face shield and/or goggles
		Hazardous Atmosphere
		Respiratory protection, based on the hazard and gas test results.
11	Polymer Draw Downs/Cleaning Polymer Screens	Chemical Exposure
		Chemical gloves based on the SDS for the chemical(s)
		Flying debris and/or splashed chemicals
		Chemical Splash Goggles
12	Process Sampling	Splashed chemicals
		Face Shield and/or Chemical Splash Goggles
		Chemical Exposure
		Chemical gloves based on the SDS for the chemical(s)
		Thermal (Above 140F)
		Heat-resistant gloves
		Hazardous Atmosphere
		Respiratory protection, based on the hazard and gas test results.
13	Process Sampling – Caustic/Acids	Splashed chemicals
		Face shield and/or Chemical Splash Goggles
		Chemical Exposure
		Chemical gloves based on the SDS for the chemical(s)
		PVC chemical protective jacket/pants
14	Process Sampling – Catalyst	Hazardous Atmosphere
		Respiratory protection, based on the hazard and gas test results.
		Splashed chemicals
		Face shield and/or Chemical Splash Goggles
		Thermal (Above 140F)
		Heat-resistant gloves
15	Process Sampling – Sour Water	Chemical Exposure
		Chemical gloves based on the SDS for the chemical(s)
		Splashed chemicals
		Face shield and/or Chemical Splash Goggles
		Hazardous Atmosphere
		SCBA or Supplied Air
16	Rodding out lines/bleeders	Chemical Exposure
		Chemical gloves based on the SDS for the chemical(s)
		Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration
		Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
17	Draining Sour Water	Hazardous Atmosphere
		Respiratory protection, based on the hazard and gas test results.
		Flying debris and/or splashed chemicals
		Face shield and/or Chemical Splash Goggles. Review SDS for additional PPE based on the process material
18	Steaming unit for outages	Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration
		Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Splashed material
		Face shield and/or Chemical Splash Goggles
		Hazardous Atmosphere
		Appropriate respiratory protection based on hazard
19	Tank Strapping	Noise
		Double hearing protection if noise level is greater than 105dBA
		Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration
		Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
20	Unplugging Vents/Drains/Taps	Hazardous Atmosphere
		Respiratory protection, based on the hazard and gas test results.
		Flying debris and/or splashed chemicals
		Face shield and/or Chemical Splash Goggles. Review SDS for additional PPE based on the process material
21	Working around Catalyst Dust	Flying debris
		Chemical Splash Goggles or Spoggles
		Chemical protective clothing based on the SDS for the catalyst
		Chemical gloves based on the SDS for the chemical(s)
		Hazardous Atmosphere
		Appropriate respiratory protection based on hazard
22	Working around Oily Water Separator	Chemical Exposure
		Chemical gloves based on the SDS for the chemical(s)
		PVC chemical protective jacket/pants
		Rubber boots
		Detection of: Deficient or Oxygen-rich environment Flammable atmosphere Hydrogen Sulfide Carbon Monoxide Benzene Other
23	Working in designated caustic/acid areas and/or loading caustic/acid	Splashed chemicals
		Face shield and/or Chemical Splash Goggles
		Chemical Exposure
		Chemical gloves based on the SDS for the chemical(s)
		PVC chemical protective jacket/pants
24	Working in designated chemical areas or any chemical splash potential	Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration
		Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Flying debris and/or splashed chemicals
		Chemical Splash Goggles
25	Working near or over water	Water Safety
		USCG approved life jacket
26	• Working over clear wells • Brazos River Water Filters • Aeration Basin • Aerobic Digester • Storage Tanks; or on a storage tank internal floating roof undergoing a water test	Sharp Edges and other surfaces that will abrade hands
		Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Falls from elevation (outside of guard rails, 4’ above a lower level)
		Full body harness, lanyard, and anchor point.
		Water Safety
		USCG approved life jacket.

- 1) Employees shall use appropriate eye or face protection when exposed to hazards from flying particles, liquid chemicals, acids or caustics, chemical gases or vapors, or injurious light radiation. Eyewear shall comply with American National Standards Institute (ANSI) / International Safety Equipment Association (ISEA) Z'87.1 as indicated by labels on the PPE.
- 2) Employees working in areas where there is a danger of foot injuries due to falling or rolling objects shall wear safety footwear that is compliant with at least one of the following standards: ANSI 241, American Society for Testing and Materials (ASTM) F2412, and/or ASTM F2413.
- 3) Employees shall use appropriate hand protection when exposed to hazards from skin absorption of harmful substances, severe cuts or lacerations, abrasions, punctures, chemical burns, or temperature extremes. One type of glove will not work in all situations. In selecting gloves for chemical protection, the exact chemicals encountered need to be determined. Labels and Safety Data Sheets (SDSs) can provide this information. For guidance, contact the GBR Safety Department or refer to the GBR Glove Information Matrix within the PPE Procedure GBR PPE-1.
- 4) All employees shall wear a hard hat meeting ISEA 289.1 criteria when there is a danger from impact and/or penetration from falling objects in any work location. Bump caps do not comply with the ANSI guidelines and are not acceptable for applications where OSHA requires an ANSI-compliant hard hat.
- 5) For more information on hearing protection, contact the GBR Safety Department or refer to the Hearing Conservation Program GBR PPE-8
- 6) For additional information on appropriate respiratory protection, contact the GBR Safety Department or refer to the Respiratory Protection Program GBR PPE-5.

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Minor Servicing Activities			
Area/Task		Potential Hazards	Personal Protective Equipment / Monitoring Equipment
1	Blinding small bore fuel gas piping to process heaters	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Hazardous atmosphere	Air purifying respirator or supplied air, based on hazard
2	Blow down sight glasses	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
3	Calibration and repair of equipment in analyzer building	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
4	Changing motor and lower air filters	Electrical Shock and/or Arc Flash	PPE rated for the estimated incident energy. See NFPA 70E or Electrical Safe Work Practices RSP-1162-000 (Attachment D)
		Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
5	Completing hose loops for product transfer	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
6	Gauge catalyst hopper, salt drier, tanks, etc.	Splashed chemicals	Face shield and/or splash goggles Chemical resistant suit
		Hazardous atmosphere	Air purifying respirator or supplied air, based on hazard
7	Installing and removing bleeder cleaning tools	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Hazardous atmosphere	Air purifying respirator or supplied air, based on hazard
		Splashed chemicals	Face shield and/or splash goggles Chemical resistant suit
8	Installing and removing utility hoses, fire water hoses, and drain hoses/tubing. Including small bore piping.	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Hazardous atmosphere	Air purifying respirator or supplied air, based on hazard
		Debris in eye.	Safety glasses/face shield
9	Light bulb replacement	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
10	Manually lighting heater pilots or burners		FRC nomex hood
		Thermal energy/Flash fire	Gauntlet style leather gloves Faceshield
11	Perform troubleshooting or calibration of control valves by blocking in and disconnecting the supply air tubing	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Flying Debris	Face shield
12	PM pH probes in cooling water circuits	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Hazardous atmosphere	Air purifying respirator or supplied air, based on hazard
		Splashed chemicals	Face shield and/or splash goggles Chemical resistant suit
13	Remove coupon holder in cooling water circuit	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
14	Removing blind flange to back flush a cooling water exchanger	Flying Debris	Face shield if using impact wrench
15	Removing plugs and caps from bleeders/valves	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Hazardous atmosphere	Air purifying respirator or supplied air, based on hazard
		Splashed chemicals	face shield and/or splash goggles Chemical resistant suit
16	Repair/cleaning of tips or replacement of flex hoses for burners or process heaters	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Hazardous atmosphere	Air purifying respirator or supplied air, based on hazard
17	Replacing pressure gauge and servicing pressure transmitters	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Hazardous atmosphere	Air purifying respirator or supplied air, based on hazard
18	Steaming out sight glass, control valve, etc.	Sharp edges and other surfaces that will expose hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.

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- 2) Employees working in areas where there is a danger of foot injuries due to falling or rolling objects shall wear safety footwear that is compliant with at least one of the following standards: ANSI 241, American Society for Testing and Materials (ASTM) F2412, and/or ASTM F2413.
- 3) Employees shall use appropriate hand protection when exposed to hazards from skin absorption of harmful substances, severe cuts or lacerations, abrasions, punctures, chemical burns, or temperature extremes. One type of glove may not provide protection in all situations. In selecting gloves for chemical protection, the exact chemicals encountered need to be determined. Labels and Safety Data Sheets (SDSs) can provide this information. For guidance, contact the GBR Safety Department. For more information on hearing protection, contact the GBR Safety Department or refer to the Hearing Conservation Program GBR PPE-1.
- 4) All employees shall wear a hard hat meeting ISEA 289.1 criteria when there is a danger from impact and/or penetration from falling objects in any work location. Bump caps do not comply with the ANSI guidelines and are not to be used in any applications where OSHA requires an ANSI-compliant hard hat.
- 5) For more information on hearing protection, contact the GBR Safety Department or refer to the Hearing Conservation Program GBR PPE-8
- 6) For additional information on appropriate respiratory protection, contact the GBR Safety Department or refer to the Respiratory Protection Program GBR PPE-5.
- 7) Specialized personal protective equipment for Alky Unit operations approved for use by the GBR Safety Department is specified in the Alky PPE Matrix RSP-1129-020.
- 8) Only trained E&I technicians or their designee are allowed to work on electrical equipment. The Electrical Safe Approach Distances & PPE Selection Matrix was written based on the requirements of NFPA 70E. All technicians shall refer to the Electrical Safe Work Practices RSP-1162-000 before beginning work.

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Permitting				
Area/Task		Potential Hazards	Personal Protective Equipment / Monitoring Equipment	
1	Acid Truck loading	Chemical Exposure	Chemical gloves based on the SDS for the chemical(s)	
			Chemical protective clothing based on the SDS for the chemical(s)	
		Hazardous Atmosphere	Rubber boots	
			Goggles	
		Face Shield		
		SCBA or Supplied Air		
2	Asbestos Abatement	Hazardous Atmosphere	Disposable Coveralls	
		Appropriate respiratory protection based on hazard		
3	Blinding Inside/Outside Battery Limits	Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.	
		Flying debris and/or splashed chemicals	Face shield and/or Chemical Splash Goggles	
		Chemical Exposure	PVC chemical protective jacket/pants	
			Goggles	
4	Cleaning Process Water Screens / Cleaning Slop/Sludge Oil Screens	Chemical Exposure	Air purifying respirator or SCBA, based on the hazard	
		Flying debris and/or splashed chemicals	Chemical gloves based on the SDS for the chemical(s)	
			Goggles	
		Hazardous Atmosphere	Face shield and/or Chemical Splash Goggles	
		Chemical protective clothing based on the SDS for the chemical(s)		
		Appropriate respiratory protection based on hazard		
5	Confined Space Entry	Detection of: Deficient or Oxygen-rich environment Flammable atmosphere Hydrogen Sulfide Carbon Monoxide Benzene VOCs Other	Multi-gas monitor (minimum of O ₂ , LEL, H ₂ S and CO) UltraRae 3000 (benzene), or Colorimetric pump (Draeger) when required for a specific chemical (i.e. Ammonia)	
		Falls / Confined Space Rescue	Respiratory Protection based on gas detection readings	
			Safety harness	
			Retrieval line	
		Chemical Splashes	**Harness and/or retrieval line requirement may be waived by the Safety Department if use would increase risk	
			Face shield (as needed)	
			Goggles	
			Chemical gloves based on the SDS for the chemical(s)	
		Chemical protective clothing based on the SDS for the chemical(s)		
6	Construction Inside/Outside of Operating Areas	Flash Fire	Flame Resistant Clothing (Nomex or FR Cotton)	
		Flying debris	Face shield and/or Chemical Splash Goggles	
		Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves	
		Detection of: Deficient or Oxygen-rich environment Flammable atmosphere Hydrogen Sulfide Carbon Monoxide Benzene Other	Multi-gas monitor (minimum of O ₂ , LEL, H ₂ S and CO)	
		Falls from elevation	UltraRae 3000 (benzene) when required	
			Draeger (chemical specific) when required	
			Respiratory Protection based off gas detection	
				Safety harness + Self-retracting lanyard, as required by the GBR Fall Protection Policy and Scaffold Policy
7	Crane Operations	Walking Under Load Crushing Hazard	Barricading the lift area and blowing whistle during lift	
8	Electrical Work	Electrical Shock and/or Arc Flash	PPE rated for the estimated incident energy. See NFPA 70E or Electrical Safe Work Practices RSP-1162-000 (Attachment D)	
9	Entering Analyzer Shelter Building	Detection of Hazardous Vapors	Follow GBR PR-17 General Safety Rules for Analyzer Building Entry	
10	Excavations	Falling Objects	Multi-gas monitor (minimum of O ₂ , LEL, H ₂ S and CO)	
			UltraRae 3000 (benzene) when required	
		Engulfment	Draeger (chemical specific) when required	
			Hazardous Atmosphere	Respiratory Protection based off gas detection
	Working at Heights (Scaffolds, Manlifts, Leading Edge, Etc.)	Falls from elevation	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves	
		Safety harness + Self-retracting lanyard, as required by the GBR PR-7 Fall Protection & Ladders		
12	Hydroblasting and Water Jetting	Flying Debris	Protection Policy and GBR EQ-4 Scaffold Policy	
13	Hot Work: Welding, Cutting and Brazing	Laceration from Water	Face shield	
		Radiant Light/Radiant Energy	Rain suit, rubber gloves, and metatarsal guards	
			Welding hood with appropriate shade number	
		Burns	Goggles with appropriate shade number	
14	Loading Sulfur at the Scales	Hazardous Atmosphere	High gauntlet welding gloves	
		Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration	Long-sleeved shirt, leather apron and/or leather cap sleeves/bib	
			Exposure to fumes may require the use of respiratory protection. Refer to GBR Respiratory Protection Policy GBR PPE-5	
		Hazardous Atmosphere	SCBA or Supplied Air	
15	Line Breaks / Preparing equipment for maintenance – Chemical (i.e. caustic, acid) or Hydrocarbon splash potential	Chemical Exposure	Chemical gloves based on the SDS for the chemical(s)	
		Flying debris and/or splashed chemicals	Rubber boots	
		Hazardous Atmosphere	Face shield and/or Chemical Splash Goggles	
			Respiratory protection, based on the hazard and gas test results.	
16	Live Flare Header Invasive Work - Workers and Backup Personnel (non-HF Alky flare headers)	Hazardous Atmosphere	Workers - Supplied Air line	
		Flash fire / chemical exposure	Backup Personnel - SCBA	
			Turnout (Bunker) gear and Balaclava Head Wear, Firefighting gloves, or Level B that provides: liquid splash chemical protection, FR layer, chemical flash fire protection for escape only in the event of chemical flash fire	
			Steel-Toed/Steel Shank Safety Footwear	
		Falling Objects	Firefighting helmets or Hardhat under Level B suit	
			Steel-toed/steel shank safety footwear	
17	Polymer Draw Downs/Cleaning Polymer Screens	Chemical Exposure	Chemical gloves based on the SDS for the chemical(s)	
		Flying debris and/or splashed chemicals	Chemical Splash Goggles	
18	Sour Water RV/Tank Inspections Sour Water RV PM/compliance Draining Sour Water	Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.	
19	Radiation	Hydrogen Sulfide/Nitrogen	SCBA or Supplied Air	
		Radiation Exposure	Work crew must barricade the area	
20	Working in designated caustic/acid areas and/or loading caustic/acid	Splashed chemicals	Face shield and/or Chemical Splash Goggles	
		Chemical Exposure	Chemical gloves based on the SDS for the chemical(s)	
			PVC chemical protective jacket/pants	
			Rubber boots	
21	Working in designated chemical areas or any chemical splash potential	Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.	
		Flying debris and/or splashed chemicals	Chemical Splash Goggles	
22	Working near or over water	Water Safety	USCG approved life jacket	
23	Working with Powdered or Granulated Materials	Flying debris	Goggles	
24	Working Overhead Where the Potential Exists for Particulate to Fall into Eyes	Debris	Goggles	
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