	GBR HAZARD ASSESSMENT AND PPE SELECTION MATRIX Minimum PPE required is based on the potential hazard being present.						
	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.						
	Area/Task	Potential Hazards	Operations Tasks 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) Rubber boots Face Shield				
	Blowing down taps	Hazardous Atmosphere Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration	Respiratory protection, based on the hazard and gas test results. Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.				
2		Hazardous Atmosphere	Respiratory protection, based on the hazard and gas test results.				
		Flying debris and/or splashed chemicals Chemical Exposure	Face shield and/or Chemical Splash Goggles Chemical gloves based on the SDS for the chemical(s)				
3		Flying debris and/or splashed chemicals Hot Objects	Face shield and/or Chemical Splash Goggles Heat-resistant gloves				
4	Sultrap Boxes Electrical Work	Hazardous Atmosphere Electrical Shock and/or Arc Flash	SCBA or Supplied Air PPE rated for the estimated incident energy. See NFPA 70E or Electrical Safe Work Practices RSP-1162-000 (Attachment D) End CDD DD 17 C = 15 for D 1 for A 1 = D 111 For For 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 O2, LEL, H2S and CO) UltraRae 3000 (benzene) when required				
7	Working at Heights (Scaffolds, Manlifts, Leading Edge, Etc.)	Falls from elevation	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	Fire Flying debris	FRC Nomex Hood Gauntlet style leather gloves Faceshield Face shield				
9		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 Flying debris and/or splashed chemicals	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves. Face shield and/or googles				
	Dolars on Day 100	Hazardous Atmosphere Chemical Exposure	Respiratory protection, based on the hazard and gas test results. Chemical gloves based on the SDS for the chemical(s)				
11	Polymer Draw Downs/Cleaning Polymer Screens	Flying debris and/or splashed chemicals Splashed chemicals	Chemical Splash Goggles Face Shield and/or Chemical Splash Goggles				
12	Process Sampling	Chemical Exposure Thermal (Above 140F)	Chemical gloves based on the SDS for the chemical(s) Heat-resistant gloves				
13	Process Sampling – Caustic/Acids	Hazardous Atmosphere Splashed chemicals Chemical Exposure Hazardous Atmosphere	Respiratory protection, based on the hazard and gas test results. Face shield and/or Chemical Splash Goggles Chemical gloves based on the SDS for the chemical(s) PVC chemical protective jacket/pants Respiratory protection, based on the hazard and gas test results.				
14	Process Sampling – Catalyst	Splashed chemicals Thermal (Above 140F) Chemical Exposure Hazardous Atmosphere	Face shield and/or Chemical Splash Goggles Heat-resistant gloves Chemical gloves based on the SDS for the chemical(s) ¹ / ₂ Face Respirator with the appropriate filter cartridge (OV, AG, P100)				
15	Process Sampling – Sour Water	Splashed chemicals Hazardous Atmosphere Chemical Exposure	Face shield and/or Chemical Splash Goggles SCBA or Supplied Air Chemical gloves based on the SDS for the chemical(s)				
16	Rodding out lines/bleeders	Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration Hazardous Atmosphere	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves. Respiratory protection, based on the hazard and gas test results.				
17		Flying debris and/or splashed chemicals Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration Hydrogen Sulfide/Nitrogen	Face shield and/or Chemical Splash Goggles. Review SDS for additional PPE based on the process material Depending on task, general duty (cut-resistant 3 minimum) or impact gloves. SCBA or Supplied Air				
18	Steaming unit for outages	Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration Splashed material Hazardous Atmosphere	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves. Face shield and/or Chemical Splash Goggles Appropriate respiratory protection based on hazard				
		Noise Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and	Double hearing protection if noise level is greater than 105dBA Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.				
19	Tank Strapping	vibration Hydrogen Sulfide/Nitrogen Sharp edges and other surfaces that will expose	SCBA or Supplied Air				
20	Unplugging Vents/Drains/Taps	hands to abrasion, cuts and/or impacts, and vibration Hazardous Atmosphere	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves. Respiratory protection, based on the hazard and gas test results.				
21	Working around Catalyst Dust	Flying debris and/or splashed chemicals Flying debris Hazardous Atmosphere	Face shield and/or Chemical Splash Goggles. Review SDS for additional PPE based on the process material Chemical Splash Goggles or Spoggles Chemical protective clothing based on the SDS for the catalyst Appropriate respiratory protection based on hazard				
		Chemical Exposure Sharp edges and other surfaces that will expose	Chemical gloves based on the SDS for the chemical(s) Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.				
22	Working around Oily Water Separator	Chemical Exposure Detection of:	Chemical gloves based on the SDS for the chemical(s) PVC chemical protective jacket/pants Rubber boots				
		Deficient or Oxygen-rich environment Flammable atmosphere Hydrogen Sulfide Carbon Monoxide Benzene Other	Respiratory protection, based on the hazard and gas test results.				
23	Working in designated caustic/acid areas and/or loading caustic/acid	Splashed chemicals Chemical Exposure	Face shield and/or Chemical Splash Goggles Chemical gloves based on the SDS for the chemical(s) PVC chemical protective jacket/pants				
24	Working in designated chemical areas	Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and	PVC chemical protective jacket/pants Rubber boots Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.				
	or any chemical splash potential	Flying debris and/or splashed chemicals	Chemical Splash Goggles				
25	 Brazos River Water Filters Aeration Basin 	hands	USCG approved life jacket Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.				
26	 Aerobic Digester Storage Tanks; or on a storage tank internal floating roof undergoing a water test 	Falls from elevation (outside of guard rails, 4' above a lower level) Water Safety	Full body harness, lanyard, and anchor point. 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.

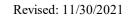
2) Employees working in areas where there is a danger of foot injuries due to falling or rolling objects shall wear safety footwear that is compliant with at least one of the following standards: ANSI 241, American Society for Testing and Materials (ASTM) F2412, and/or ASTM F2413.

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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		M	RD ASSESSMENT AND PPE SELECTION MATRIX Inimum PPE required is based on the potential hazard being present. task is not covered or the SWP or Procedure indicates a higher level of PPE, the SWP or Procedure shall be followed.
			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 resiprator 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.
	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 I
4		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,	Splashed chemicals	Face shield and/or splash googles Chemical resistant suit
0	tanks, etc.	Hazardous atmosphere	Air purifying resiprator or supplied air, based on hazard
7	Installing and removing bleeder	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.
/	cleaning tools	Hazardous atmosphere Splashed chemicals	Air purifying resiprator or supplied air, based on hazard Face shield and/or splash googles 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 Debris in eye.	Air purifying resiprator or supplied air, based on hazard 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	Thermal energy/Flash fire	FRC nomex hood Gauntlet style leather gloves Faceshield
11	Perform troubleshooting or calibration of control valves by blocking in and disconnecting the	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.
	supply air tubing	Flying Debris	Face shield
12	PM pH probes in cooling water	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.
	circuits	Hazardous atmosphere	Air purifying resiprator or supplied air, based on hazard Face shield and/or splash googles
		Splashed chemicals	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
	Removing plugs and caps from	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.
15	bleeders/valves	Hazardous atmosphere	Air purifying resiprator or supplied air, based on hazard
		Splashed chemicals	face shield and/or splash googles 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.
	Replacing pressure gauge and servicing pressure transmitters	Hazardous atmosphere Sharp edges and other surfaces that will expose	Air purifying resiprator or supplied air, based on hazard
17		hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
		Hazardous atmosphere Sharp edges and other surfaces that will expose	Air purifying resiprator or supplied air, based on hazard
18	Steaming out sight glass, control valve, etc.	hands to abraision, cuts, and/or impacts or vibrations.	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.

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 Ar 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 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 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 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

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&l 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 7OE. All techni Electrical Safe Work Practices RSP-1162-000 before beginning work.

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.

Permitting

	Area/Task Potential Hazards Personal Protective Equipment / Monitoring Equipment		
	Area/rask	rotential mazards	Personal Protective Equipment / Monitoring Equipment Chemical gloves based on the SDS for the chemical(s)
1	Acid Truck loading	Chemical Exposure	Chemical protective clothing based on the SDS for the chemical(s) Rubber boots
1	Actu Truck loading		Goggles Face Shield
2	Asbestos Abatement	Hazardous Atmosphere Hazardous Atmosphere	SCBA or Supplied Air Disposable Coveralls
-		Sharp edges and other surfaces that will expose	Appropriate respiratory protection based on hazard
	Blinding Inside/Outside Battery Limits	hands to abrasion, cuts and/or impacts, and vibration	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
3		Flying debris and/or splashed chemicals	Face shield and/or Chemical Splash Goggles PVC chemical protective jacket/pants
		Chemical Exposure	Goggles Air purifying respirator or SCBA, based on the hazard
	Cleaning Process Water Screens /	Chemical Exposure	Chemical gloves based on the SDS for the chemical(s)
4		Flying debris and/or splashed chemicals	Goggles Face shield and/or Chemical Splash Goggles
		Hazardous Atmosphere	Chemical protective clothing based on the SDS for the chemical(s) Appropriate respiratory protection based on hazard
	Confined Space Entry	Detection of: Deficient or Oxygen-rich environment	Multi-gas monitor (minimum of O_{2} , LEL, H_2S and CO) UltraRae 3000 (benzene), or Colorimetric pump (Draeger) when required for a specific chemical (i.e.
		Flammable atmosphere Hydrogen Sulfide	Ammonia)
		Carbon Monoxide Benzene	Respiratory Protection based on gas detection readings
5		VOCs Other	
		Falls / Confined Space Rescue	Safety harness Retrieval line
			**Harness and/or retrieval line requirement may be waived by the Safety Department if use would increase risk Face shield (as needed)
		Chemical Splashes	Goggles Chemical gloves based on the SDS for the chemical(s)
		Flash Fire	Chemical protective clothing based on the SDS for the chemical(s) Flame Resistant Clothing (Nomex or FR Cotton)
		Flying debris Sharp edges and other surfaces that will expose	Face shield and/or Chemical Splash Goggles
		hands to abrasion, cuts and/or impacts, and vibration	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves
6	Construction Inside/Outside of	Detection of: Deficient or Oxygen-rich environment	Multi-gas monitor (minimum of O ₂ , LEL, H ₂ S and CO) UltraRae 3000 (benzene) when required
	Operating Areas	Flammable atmosphere Hydrogen Sulfide	Draeger (chemical specific) when required
		Carbon Monoxide Benzene	Respiratory Protection based off gas detection
		Other Falls from elevation	Safety harness + Self-retracting lanyard, as required by the GBR Fall Protection Policy and Scaffold Policy
7	Crane Operations	Walking Under Load	-Barricading the lift area and blowing whistle during lift
8	Electrical Work	Crushing Hazard 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 Multi-gas monitor (minimum of O ₂ , LEL, H ₂ S and CO)
		Falling Objects	UltraRae 3000 (benzene) when required Keep dirt/equipment at least 2 feet from edge of excavation
10	Excavations	Engulfment Hazardous Atmosphere	Shoring/sloping/shielding Continuous Air monitoring
11	Working at Heights (Scaffolds, Manlifts, Leading Edge,	Falls from elevation	Safety harness + Self-retracting lanyard, as required by the GBR PR-7 Fall Protection & Ladders Protection Policy and GBR EQ-4 Scaffold Policy
12	Etc.) Hydroblasting and Water Jetting	Flying Debris Laceration form Water	Face shield Rain suit, rubber gloves, and metatarsal guards
		Radiant Light/Radiant Energy	Welding hood with appropriate shade number Goggles with appropriate shade number
13	Hot Work: Welding, Cutting and Brazing	Burns	High gauntlet welding gloves Long-sleeved shirt, leather apron and/or leather cap sleeves/bib
	Loading Sulfur at the Scales	Hazardous AtmosphereSharp edges and other surfaces that will expose	Exposure to fumes may require the use of respiratory protection. Refer to GBR Respiratory Protection Policy GBR PPE-5
14		hands to abrasion, cuts and/or impacts, and vibration	Depending on task, general duty (cut-resistant 3 minimum) or impact gloves
		Hazardous Atmosphere	SCBA or Supplied Air
	Line Breaks / Preparing equipment	Chemical Exposure	Chemical gloves based on the SDS for the chemical(s) Rubber boots
15			
15	for maintenance – Chemical (i.e. caustic, acid) or Hydrocarbon splash	Flying debris and/or splashed chemicals	Face shield and/or Chemical Splash Goggles
15	for maintenance – Chemical (i.e.		Respiratory protection, based on the hazard and gas test results. Workers - Supplied Air line
15	for maintenance – Chemical (i.e. caustic, acid) or Hydrocarbon splash potential	Flying debris and/or splashed chemicals Hazardous Atmosphere	Respiratory protection, based on the hazard and gas test results. Workers - Supplied Air line Backup Personnel - SCBA
	for maintenance – Chemical (i.e. caustic, acid) or Hydrocarbon splash potential Live Flare Header Invasive Work - Workers and Backup Personnel (non-	Flying debris and/or splashed chemicals Hazardous Atmosphere Hazardous Atmosphere	Respiratory protection, based on the hazard and gas test results. Workers - Supplied Air line
	for maintenance – Chemical (i.e. caustic, acid) or Hydrocarbon splash potential Live Flare Header Invasive Work -	Flying debris and/or splashed chemicals Hazardous Atmosphere Hazardous Atmosphere	Respiratory protection, based on the hazard and gas test results. Workers - Supplied Air line 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
	for maintenance – Chemical (i.e. caustic, acid) or Hydrocarbon splash potential Live Flare Header Invasive Work - Workers and Backup Personnel (non- HF Alky flare headers)	Flying debris and/or splashed chemicals Hazardous Atmosphere Hazardous Atmosphere Flash fire / chemical exposure Falling Objects	Respiratory protection, based on the hazard and gas test results. Workers - Supplied Air line 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 Firefighting helmets or Hardhat under Level B suit Steel-toed/steel shank safety footwear
	for maintenance – Chemical (i.e. caustic, acid) or Hydrocarbon splash potential Live Flare Header Invasive Work - Workers and Backup Personnel (non- HF Alky flare headers)	Flying debris and/or splashed chemicals Hazardous Atmosphere Hazardous Atmosphere Flash fire / chemical exposure Falling Objects Chemical Exposure	Respiratory protection, based on the hazard and gas test results. Workers - Supplied Air line 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 Firefighting helmets or Hardhat under Level B suit Steel-toed/steel shank safety footwear Chemical gloves based on the SDS for the chemical(s)
16	for maintenance – Chemical (i.e. caustic, acid) or Hydrocarbon splash potential Live Flare Header Invasive Work - Workers and Backup Personnel (non- HF Alky flare headers) Polymer Draw Downs/Cleaning Polymer Screens Sour Water RV/Tank Inspections	Flying debris and/or splashed chemicals Hazardous Atmosphere Hazardous Atmosphere Flash fire / chemical exposure Falling Objects Chemical Exposure Flying debris and/or splashed chemicals Sharp edges and other surfaces that will expose	Respiratory protection, based on the hazard and gas test results. Workers - Supplied Air line 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 Firefighting helmets or Hardhat under Level B suit Steel-toed/steel shank safety footwear Chemical gloves based on the SDS for the chemical(s) Chemical Splash Goggles
	for maintenance – Chemical (i.e. caustic, acid) or Hydrocarbon splash potential Live Flare Header Invasive Work - Workers and Backup Personnel (non- HF Alky flare headers) Polymer Draw Downs/Cleaning Polymer Screens	Flying debris and/or splashed chemicals Hazardous Atmosphere Hazardous Atmosphere Hazardous Atmosphere Flash fire / chemical exposure Flash fire / chemical exposure Falling Objects Chemical Exposure Flying debris and/or splashed chemicals Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration	Respiratory protection, based on the hazard and gas test results. Workers - Supplied Air line 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 Firefighting helmets or Hardhat under Level B suit Steel-toed/steel shank safety footwear Chemical gloves based on the SDS for the chemical(s) Chemical Splash Goggles Depending on task, general duty (cut-resistant 3 minimum) or impact gloves.
16	for maintenance – Chemical (i.e. caustic, acid) or Hydrocarbon splash potential Live Flare Header Invasive Work - Workers and Backup Personnel (non- HF Alky flare headers) Polymer Draw Downs/Cleaning Polymer Screens Sour Water RV/Tank Inspections Sour Water RV/Tank Inspections	Flying debris and/or splashed chemicals Hazardous Atmosphere Hazardous Atmosphere Hazardous Atmosphere Flash fire / chemical exposure Falling Objects Chemical Exposure Flying debris and/or splashed chemicals Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration Hydrogen Sulfide/Nitrogen Radiation Exposure	Respiratory protection, based on the hazard and gas test results. Workers - Supplied Air line 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 Firefighting helmets or Hardhat under Level B suit Steel-toed/steel shank safety footwear Chemical gloves based on the SDS for the chemical(s) Chemical Splash Goggles Depending on task, general duty (cut-resistant 3 minimum) or impact gloves. SCBA or Supplied Air Work crew must barricade the area
16 17 18	for maintenance – Chemical (i.e. caustic, acid) or Hydrocarbon splash potential Live Flare Header Invasive Work - Workers and Backup Personnel (non- HF Alky flare headers) Polymer Draw Downs/Cleaning Polymer Screens Sour Water RV/Tank Inspections Sour Water RV/Tank Inspections Sour Water RV PM/compliance Draining Sour Water Morking in designated caustic/acid	Flying debris and/or splashed chemicals Hazardous Atmosphere Hazardous Atmosphere Hazardous Atmosphere Flash fire / chemical exposure Flash fire / chemical exposure Falling Objects Chemical Exposure Flying debris and/or splashed chemicals Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration Hydrogen Sulfide/Nitrogen Radiation Exposure Splashed chemicals	Respiratory protection, based on the hazard and gas test results. Workers - Supplied Air line 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 Firefighting helmets or Hardhat under Level B suit Steel-toed/steel shank safety footwear Chemical gloves based on the SDS for the chemical(s) Chemical Splash Goggles Depending on task, general duty (cut-resistant 3 minimum) or impact gloves. SCBA or Supplied Air Work crew must barricade the area Face shield and/or Chemical Splash Goggles Chemical gloves based on the SDS for the chemical(s)
16 17 18 19	for maintenance – Chemical (i.e. caustic, acid) or Hydrocarbon splash potential Live Flare Header Invasive Work - Workers and Backup Personnel (non- HF Alky flare headers) Polymer Draw Downs/Cleaning Polymer Screens Sour Water RV/Tank Inspections Sour Water RV/Tank Inspections Sour Water RV PM/compliance Draining Sour Water Radiation	Flying debris and/or splashed chemicals Hazardous Atmosphere Hazardous Atmosphere Hazardous Atmosphere Flash fire / chemical exposure Falling Objects Chemical Exposure Flying debris and/or splashed chemicals Sharp edges and other surfaces that will expose hands to abrasion, cuts and/or impacts, and vibration Hydrogen Sulfide/Nitrogen Radiation Exposure Splashed chemicals Chemical Exposure	Respiratory protection, based on the hazard and gas test results. Workers - Supplied Air line 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 Firefighting helmets or Hardhat under Level B suit Steel-toed/steel shank safety footwear Chemical gloves based on the SDS for the chemical(s) Chemical Splash Goggles Depending on task, general duty (cut-resistant 3 minimum) or impact gloves. SCBA or Supplied Air Work crew must barricade the area Face shield and/or Chemical Splash Goggles
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