



Safety & Occupational Health

LCDR Kenneth "KP" Pounds
IH w/ Gulf Strike Team
D-8 Response Div

 Federal On-Scene Coordinator Representative Training 



Safety & Occupational Health

- **Training to Identify Safety and Occupational Health section 6.0 of FOSC Performance Qualification Standard (PQS).**

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- ***Emergency response or responding to emergencies*** means a response effort by employees from outside the immediate release area or by other designated responders (i.e., mutual aid groups, local fire departments, etc.) to an occurrence which results, or is likely to result, in an uncontrolled release of a hazardous substance.

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- **Site safety plan & contents as required by 29 CFR 1910.120(b)(4)(i)**
- **General.** The site safety and health plan, which must be kept on site, shall address the safety and health hazards of each phase of site operation and include the requirements and procedures for employee protection.
- **Elements.** The site safety and health plan, as a minimum, shall address the following:
Risk or hazard analysis, training, PPE, medical surveillance requirements, environmental sampling techniques and instrumentation, site control measures, decontamination procedures, confined space entry, and emergency response conditions/operations.



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- **Explain the applicability of a Site Safety Plan during a spill.**
- Needed not needed? Why?
- Where to get plan?
- Who completes pan?
- Responsibility for ensuring plan is completed properly and accurately.
- Drafty a Site Safety Plan – **but not just yet!**



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- **Explain** the OSC's responsibility for the safety of personnel at a spill site.
- **Identify** the training requirements for personnel responding to an oil spill (on site & off site).
- **Identify** the training requirements for personnel responding to an unknown hazardous substance release.



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- **Volunteers responding to emergencies**
- **Identify** the potential roles of volunteers in an oil response.
- **Identify** the training requirements for volunteers at an oil response.



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- **Describe** the purpose and content of a Disposal Plan.
- What are going to do w/ the hazardous products?
- Where are the products going to?
- How are they going to get there?
- How are they going to be used or dispossessed of upon arrival (commodities, waste products, RCRA considerations?)



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- **Decontamination procedures.**
- A decontamination procedure shall be developed, communicated to employees and implemented before any employees or equipment may enter areas on site where potential for exposure to hazardous substances exists.
- Standard operating procedures shall be developed to minimize employee contact with hazardous substances or with equipment that has contacted hazardous substances
- All employees leaving a contaminated area shall be appropriately decontaminated; all contaminated clothing and equipment leaving a contaminated area shall be appropriately disposed of or decontaminated.
- Decontamination procedures shall be monitored by the site safety and health supervisor to determine their effectiveness. When such procedures are found to be ineffective, appropriate steps shall be taken to correct any deficiencies.



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- **Explain** and **review** the safety information that is located in the revised Pollution Investigator PQS.



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- **Supporting Tools**

ICS 208 "Site Safety Plan"

ICS 215A Form

Operational Risk Management (ORM) modeling tools
GAR & SPE



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- **Now for the fun stuff – ICS 208 Development and Completion**

- Where to get it
- Most recent version



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QUESTIONS??

MANY THANKS!



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Risk Calculation Worksheet - Calculating Risk Using GAR Model (GREEN-AMBER-RED)

To compute the total level of risk for each hazard identified below, assign a risk code of 0 (For No Risk) through 10 (For Maximum Risk) to each of the six elements. This is your personal estimate of the risk. Add the risk scores to come up with a Total Risk Score for each hazard.

SUPERVISION

Supervisory Control considers how qualified the supervisor is and whether effective supervision is taking place. Even if a person is qualified to perform a task, supervision acts as a control to minimize risk. This may simply be someone checking what is being done to ensure it is being done correctly. The higher the risk, the more the supervisor needs to be focused on observing and checking. A supervisor who is actively involved in a task (doing something) is easily distracted and should not be considered an effective safety observer in moderate to high-risk conditions.

PLANNING

Planning and preparation should consider how much information you have, how clear it is, and how much time you have to plan the evolution or evaluate the situation.

TEAM SELECTION

Team selection should consider the qualifications and experience level of the individuals used for the specific event/evolution. Individuals may need to be replaced during the vent/evolution and the experience level of the new team members should be assessed.

TEAM FITNESS

Team fitness should consider the physical and mental state of the crew. This is a function of the amount and quality of rest a crewmember has had. Quality of rest should consider how the ship rides, its habitability, potential sleep length, and any interruptions. Fatigue normally becomes a factor after 18 hours without rest; however, lack of quality sleep builds a deficit that worsens the effects of fatigue.

ENVIRONMENT

Environment should consider factors affecting personnel performance as well as the performance of the asset or resource. This includes, but is not limited to, time of day, temperature, humidity, precipitation, wind and sea conditions, proximity of aerial/navigational hazards and other exposures (e.g., oxygen deficiency, toxic chemicals, and/or injury from falls and sharp objects).

EVENT or EVOLUTION COMPLEXITY

Event/Evolution complexity should consider both the required time and the situation. Generally, the longer one is exposed to a hazard, the greater are the risks. However, each circumstance is unique. For example, more iterations of an evolution can increase the opportunity for a loss to occur, but may have the positive effect of improving the proficiency of the team, thus possibly decreasing the chance of error. This would depend upon the experience level of the team. The situation includes considering how long the environmental conditions will remain stable and the complexity of the work. **Assign a risk code of 0 (For No Risk) through 10 (For Maximum Risk) to each of the six elements below.**

Supervision	
Planning	
Team Selection	
Team Fitness	
Environment	
Event/Evolution Complexity	
Total Risk Score	

The mission risk can be visualized using the colors of a traffic light. If the total risk value falls in the GREEN ZONE (1-23), risk is rated as low. If the total risk value falls in the AMBER ZONE (24-44), risk is moderate and you should consider adopting procedures to minimize the risk. If the total value falls in the RED ZONE (45-60), you should implement measures to reduce the risk prior to starting the event or evolution.

GAR Evaluation Scale					
Color Coding the Level Of Risk					
0	23	44	60		
10	20	30	40	50	
GREEN (Low Risk)	AMBER (Caution)			RED (High Risk)	

The ability to assign numerical values or "color codes" to hazards using the GAR Model is not the most important part of risk assessment. What is critical to this step is team discussions leading to an understanding of the risks and how they will be managed.

Site Safety and Health Plan ICS-208-CG (rev 9/06)

Incident Name: _____

Date/Time Prepared: _____ **Operational Period:** _____

Purpose. The ICS Compatible Site Safety and Health Plan is designed for safety and health personnel that use the Incident Command System (ICS). It is compatible with ICS and is intended to meet the requirements of the Hazardous Waste Operations and Emergency Response regulation (Title 29, Code of Federal Regulations, Part 1910.120). The plan avoids the duplication found between many other site safety plans and certain ICS forms. It is also in a format familiar to users of ICS. Although primarily designed for oil and chemical spills, the plan can be used for all hazard situations.

Questions on the document should be addressed to the Coast Guard Office of Incident Management and Preparedness (G-RPP).

Table of Forms

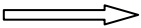
FORM NAME	FORM #	USE	REQUIRED	OPTIONAL	ATTACHED
Emergency Safety and Response Plan	A	Emergency response phase (uncontrolled)	X		
Site Safety Plan	B	Post-emergency phase (stabilized, cleanup)	X		
Site Map	C	Post-emergency phase map of site and hazards	X		
Emergency Response Plan	D	Part of Form B, to address emergencies	X		
Exposure Monitoring Plan	E	Exposure monitoring Plan to monitor exposure	X		
Air Monitoring Log	E-1	To log air monitoring data	X*		
Personal Protective Equipment	F	To document PPE equipment and procedures	X*		
Decontamination	G	To document decon equipment and procedures	X*		
Site Safety Enforcement Log	H	To use in enforcing safety on site		X	
Worker Acknowledgement Form	I	To document workers receiving briefings		X	
Form A Compliance Checklist	J	To assist in ensuring HAZWOPER compliance		X	
Form B Compliance Checklist	K	To assist in ensuring HAZWOPER compliance		X	
Drum Compliance Checklist	L	To assist in ensuring HAZWOPER compliance		X	
Other:					

* Required only if function or equipment is used during a response

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EMERGENCY SAFETY and RESPONSE PLAN	1. Incident Name		2. Date/Time Prepared		3. Operational Period		4. Attachments: Attach MSDS for each Chemical:												
5. <u>Organization</u> IC/UC:	Safety:		Entry Team:		Backup Team:		Decon Team:												
6.a. <u>Physical Hazards and Protection</u>	6.b. Confined Space <input type="checkbox"/> Noise <input type="checkbox"/> Heat Stress <input type="checkbox"/> Cold Stress <input type="checkbox"/> Electrical <input type="checkbox"/> Animal/Plant/Insect <input type="checkbox"/> Ergonomic <input type="checkbox"/> Ionizing Rad <input type="checkbox"/> Slips/Trips/Falls <input type="checkbox"/> Struck by <input type="checkbox"/> Water <input type="checkbox"/> Violence <input type="checkbox"/> Excavation <input type="checkbox"/> Biomedical waste and/or needles <input type="checkbox"/> Fatigue <input type="checkbox"/> Other (specify)																		
6.c. Tasks & Controls	6d Entry Permit	6.e. Ventilate	6f. Hearing Protection	6g. Shoes (type)	6.h. Hard Hats	6i. Clothing (cold wx)	6j. Life Jacket	6l. Work/ Rest (hrs)	6.m. Fluids (amt/time)	6.n. Signs & Barricade	6.p. Fall Protect	6.q. Post Guards	6.r. Flash Protect	6.s. Work Gloves	6.t. Other				
7.a. Agent	7.b. Hazards			7.c. Target Organs			7.d. Exposure Routes		7.f. PPE		7.g. Type of PPE								
	Explosive <input type="checkbox"/>	Radioactive <input type="checkbox"/>	Eyes <input type="checkbox"/>	Nose <input type="checkbox"/>	Skin <input type="checkbox"/>	Ears <input type="checkbox"/>	Inhalation <input type="checkbox"/>	Absorption <input type="checkbox"/>	Face Shield <input type="checkbox"/>	Eyes <input type="checkbox"/>	Gloves <input type="checkbox"/>	Inner Suit <input type="checkbox"/>	Splash Suit <input type="checkbox"/>	Level A Suit <input type="checkbox"/>	SCBA <input type="checkbox"/>	APR <input type="checkbox"/>	SAR <input type="checkbox"/>	Cartridges <input type="checkbox"/>	Fire Resistance <input type="checkbox"/>
	Flammable <input type="checkbox"/>	Carcinogen <input type="checkbox"/>	Central Nervous System <input type="checkbox"/>	Respiratory <input type="checkbox"/>	Throat <input type="checkbox"/>	Liver <input type="checkbox"/>	Ingestion <input type="checkbox"/>	Injection <input type="checkbox"/>	Membrane <input type="checkbox"/>										
	Reactive <input type="checkbox"/>	Oxidizer <input type="checkbox"/>	Lungs <input type="checkbox"/>	Heart <input type="checkbox"/>	Lungs <input type="checkbox"/>	Kidney <input type="checkbox"/>	Blood <input type="checkbox"/>	Lungs <input type="checkbox"/>											
	Biomedical <input type="checkbox"/>	Corrosive <input type="checkbox"/>	Circulatory <input type="checkbox"/>	Gastrointestinal <input type="checkbox"/>	Bone <input type="checkbox"/>	Other Specify: <input type="checkbox"/>													
	Toxic <input type="checkbox"/>	Specify Other: <input type="checkbox"/>																	
8. Instruments:	8.a. Action Levels	8.b. Chemical Name(s):	8.c. LEL/UEL %	8.d. Odor Thresh Ppm	8.e. Ceiling/IDLH	8.f. STEL/TLV	8.g. Flash Pt/ Ignition Pt (F or C)	8.h. Vapor Pressure (mm)	8.i. Vapor Density	8.j. Specific Gravity	8.l. Boiling Pt F or C								
O2 <input type="checkbox"/>																			
CGI <input type="checkbox"/>																			
Radiation <input type="checkbox"/>																			
Total HCs <input type="checkbox"/>																			
Colorimetric <input type="checkbox"/>																			
Thermal <input type="checkbox"/>																			
Other <input type="checkbox"/>																			

EMERGENCY SAFETY and RESPONSE PLAN (Cont)	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Attachments: Attach MSDS for each Chemical
9. <u>Decontamination:</u> Instrument Drop Off <input type="checkbox"/> Outer Boots/Glove Removal <input type="checkbox"/> Suit/Gloves/Boot Disposal <input type="checkbox"/>	Suit Wash <input type="checkbox"/> Decon Agent: Water <input type="checkbox"/> Other <input type="checkbox"/> Specify:	Bottle Exchange <input type="checkbox"/> Outer Suit Removal <input type="checkbox"/> Inner Suit Removal <input type="checkbox"/> SCBA/Mask Removal <input type="checkbox"/>	SCBA/Mask Rinse <input type="checkbox"/> Inner Glove Removal <input type="checkbox"/> Work Clothes Removal <input type="checkbox"/> Body Shower <input type="checkbox"/>	Intervening Steps <input type="checkbox"/> Specify:
10. <u>Site Map.</u> Include: Work Zones, Locations of Hazards, Security Perimeter, Places of Refuge, Decontamination Line, Evacuation Routes, Assembly Point, Direction of North <input type="checkbox"/> Attached, <input type="checkbox"/> Drawn Below:				
11.a. <u>Potential Emergencies:</u> Fire <input type="checkbox"/> Explosion <input type="checkbox"/> Other <input type="checkbox"/>	11.b. Evacuation Alarms: Horn <input type="checkbox"/> # Blasts <input type="checkbox"/> Bells <input type="checkbox"/> #Rings <input type="checkbox"/> Radio Code <input type="checkbox"/> Other:	11.c. Emergency Prevention and Evacuation Procedures: Safe Distance:		
12. a. <u>Communications:</u> Radio <input type="checkbox"/> Phone <input type="checkbox"/> Other <input type="checkbox"/>	12.b. Command #:	12.c. Tactical #:	12.d. Entry #:	
13.a. <u>Site Security:</u> Personnel Assigned	13.b. Procedures:		13.c. Equipment:	
14.a. <u>Emergency Medical:</u> Personnel Assigned	14.b. Procedures:		14.c. Equipment:	
15. <u>Prepared by:</u>	16. <u>Date/Time Briefed:</u>		ICS-208-CG SSP-A Page 2. (rev 9/06): Page ____ of ____	

CG ICS SITE SAFETY PLAN (SSP) HAZARD ID/EVAL/CONTROL	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)
5. Supervisor/Leader	6. Location and Size of Site	7. Site Accessibility Land <input type="checkbox"/> Water <input type="checkbox"/> Air <input type="checkbox"/> Comments:	8. For Emergencies Contact:	9. Attachments: Attach MSDS for each Chemical
10.a. Job Task/Activity	10.b. Hazards* 	10.c. Potential Injury & Health Effects	10.d. Exposure Routes	10.e. <u>Controls</u> : Engineering, Administrative, PPE
			Inhalation <input type="checkbox"/> Absorption <input type="checkbox"/> Ingestion <input type="checkbox"/> Injection <input type="checkbox"/> Membrane <input type="checkbox"/> <input type="checkbox"/>	
			Inhalation <input type="checkbox"/> Absorption <input type="checkbox"/> Ingestion <input type="checkbox"/> Injection <input type="checkbox"/> Membrane <input type="checkbox"/> <input type="checkbox"/>	
			Inhalation <input type="checkbox"/> Absorption <input type="checkbox"/> Ingestion <input type="checkbox"/> Injection <input type="checkbox"/> Membrane <input type="checkbox"/> <input type="checkbox"/>	
			Inhalation <input type="checkbox"/> Absorption <input type="checkbox"/> Ingestion <input type="checkbox"/> Injection <input type="checkbox"/> Membrane <input type="checkbox"/> <input type="checkbox"/>	
			Inhalation <input type="checkbox"/> Absorption <input type="checkbox"/> Ingestion <input type="checkbox"/> Injection <input type="checkbox"/> Membrane <input type="checkbox"/> <input type="checkbox"/>	
11. Prepared By:	12. Date/Time Briefed:	* HAZARD LIST : Physical/Safety, Toxic, Explosion/Fire, Oxygen Deficiency, Ionizing Radiation, Biological, Biomedical, Electrical, Heat Stress, Cold Stress, Ergonomic, Noise, Cancer, Dermatitis, Drowning, Fatigue, Vehicle, & Diving		ICS-208-CG SSP-B (rev 9/06): Page _____ of _____

CG ICS SSP: SITE MAP	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)
5. Supervisor/Leader	6. Location and Size of Site	7. Site Accessibility Land <input type="checkbox"/> Water <input type="checkbox"/> Air <input type="checkbox"/> Comments:	8. For Emergencies Contact:	9. <u>Include</u> : - Work Zones - Locations of Hazards - Security Perimeter - Places of Refuge - Decontamination Line - Evacuation Routes
10. Sketch of Site: <input type="checkbox"/> Attached. <input type="checkbox"/> Drawn Here				
11. Prepared By:	12. Date/Time Briefed:	HAZARD LIST: Physical/Safety, Toxic, Explosion/Fire, Oxygen Deficiency, Ionizing Radiation, Biological, Biomedical, Electrical, Heat Stress, Cold Stress, Ergonomic, Noise, Cancer, Dermatitis, Drowning, Fatigue, Vehicle, & Diving		ICS-208-CG SSP-C (rev 9/06): Page _____ of _____

CG ICS SSP: EMERGENCY RESPONSE PLAN	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)
5. Supervisor/Leader	6. Location and Size of Site	7. For Emergencies Contact:		8. Attachments: INCLUDE ICS FORM 206 and EMT Medical Response Procedures
9. Emergency Alarm (sound and location)	10. Backup Alarm (sound and location)	11. Emergency Hand Signals	12. Emergency Personal Protective Equipment Required:	
13. Emergency Notification Procedures		14. Places of Refuge (also see site map form 208B)	15. Emergency Decon and Evacuation Steps	16. Site Security Measures
17. Prepared By:	18. Date/Time Briefed:	HAZARD LIST: Physical/Safety, Toxic, Explosion/Fire, Oxygen Deficiency, Ionizing Radiation, Biological, Biomedical, Electrical, Heat Stress, Cold Stress, Ergonomic, Noise, Cancer, Dermatitis, Drowning, Fatigue, Vehicle, & Diving		ICS-208-CG SSP-D (rev 9/06) Page ____ of ____

CG ICS SSP: Exposure Monitoring Plan		1. Incident Name		2. Date/Time Prepared:	3. Operational Period:		4. Safety Officer (Method of Contact):		
5. Specific Task/Operation	6. Survey Location	7. Survey Date/Time	8. Monitoring Methodology	9. Direct-Reading Instrument	10. Air Sampling	11. Hazard(s) to Monitor	12. Monitoring Duration	13. Reasons to Monitor	14. Laboratory Support for Analysis
			<input type="checkbox"/> Personal Breathing Zone <input type="checkbox"/> Area Air Monitoring <input type="checkbox"/> Dermal Exposure Monitoring <input type="checkbox"/> Biological Monitoring: <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Other <input type="checkbox"/> Obtain bulk samples <input type="checkbox"/> Other:	<u>Model:</u> <u>Manufacturer:</u> Last Mfr <u>Calibration Date:</u>	<u>Sampling/Analysis Method:</u> <u>Collecting Media:</u> <input type="checkbox"/> Charcoal Tube <input type="checkbox"/> Silica Gel <input type="checkbox"/> 37 mm MCE Filter <input type="checkbox"/> 37 mm PVC Filter <input type="checkbox"/> Other:_____			<input type="checkbox"/> Regulatory Compliance <input type="checkbox"/> Assess current PPE adequacy <input type="checkbox"/> Validate engineering controls <input type="checkbox"/> Monitor IDLH Conditions <input type="checkbox"/> Other_____	
			<input type="checkbox"/> Personal Breathing Zone <input type="checkbox"/> Area Air Monitoring <input type="checkbox"/> Dermal Exposure Monitoring <input type="checkbox"/> Biological Monitoring: <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Other <input type="checkbox"/> Obtain bulk samples <input type="checkbox"/> Other:	<u>Model:</u> <u>Manufacturer:</u> Last Mfr <u>Calibration Date:</u>	<u>Sampling/Analysis Method:</u> <u>Collecting Media:</u> <input type="checkbox"/> Charcoal Tube <input type="checkbox"/> Silica Gel <input type="checkbox"/> 37 mm MCE Filter <input type="checkbox"/> 37 mm PVC Filter <input type="checkbox"/> Other:_____			<input type="checkbox"/> Regulatory Compliance <input type="checkbox"/> Assess current PPE adequacy <input type="checkbox"/> Validate engineering controls <input type="checkbox"/> Monitor IDLH Conditions <input type="checkbox"/> Other_____	
			<input type="checkbox"/> Personal Breathing Zone <input type="checkbox"/> Area Air Monitoring <input type="checkbox"/> Dermal Exposure Monitoring <input type="checkbox"/> Biological Monitoring: <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Other <input type="checkbox"/> Obtain bulk samples <input type="checkbox"/> Other:	<u>Model:</u> <u>Manufacturer:</u> Last Mfr <u>Calibration Date:</u>	<u>Sampling/Analysis Method:</u> <u>Collecting Media:</u> <input type="checkbox"/> Charcoal Tube <input type="checkbox"/> Silica Gel <input type="checkbox"/> 37 mm MCE Filter <input type="checkbox"/> 37 mm PVC Filter <input type="checkbox"/> Other:_____			<input type="checkbox"/> Regulatory Compliance <input type="checkbox"/> Assess current PPE adequacy <input type="checkbox"/> Validate engineering controls <input type="checkbox"/> Monitor IDLH Conditions <input type="checkbox"/> Other_____	
			<input type="checkbox"/> Personal Breathing Zone <input type="checkbox"/> Area Air Monitoring <input type="checkbox"/> Dermal Exposure Monitoring <input type="checkbox"/> Biological Monitoring: <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Other <input type="checkbox"/> Obtain bulk samples <input type="checkbox"/> Other:	<u>Model:</u> <u>Manufacturer:</u> Last Mfr <u>Calibration Date:</u>	<u>Sampling/Analysis Method:</u> <u>Collecting Media:</u> <input type="checkbox"/> Charcoal Tube <input type="checkbox"/> Silica Gel <input type="checkbox"/> 37 mm MCE Filter <input type="checkbox"/> 37 mm PVC Filter <input type="checkbox"/> Other:_____			<input type="checkbox"/> Regulatory Compliance <input type="checkbox"/> Assess current PPE adequacy <input type="checkbox"/> Validate engineering controls <input type="checkbox"/> Monitor IDLH Conditions <input type="checkbox"/> Other_____	
15. Prepared By:			16. Date/Time Briefed:		HAZARD LIST: Potential Health Effects: Bruise/Lacerations, Organ Damage, Central Nervous System Effects, Cancer, Reproductive Damage, Low Back Pain, Temporary Hearing Loss, Dermatitis, Respiratory Effects, Bone Breaks, & Eye Burning				
18. Safety Officer Review:			<u>Reporting:</u> Monitoring results shall be logged in the ICS-208-CG SSP-E-1 form (Air Monitoring Log) and attached as part of a current Site Safety Plan and Incident Action Plan. Significant Exposures shall be immediately addressed to the IC and General Staff for immediate correction.					ICS-208-CG SSP-E (rev 9/06) Page ____ of ____	

CG ICS SSP: AIR MONITORING LOG	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)	
5. Site Location	6. Hazards of Concern	7. Action Levels (include references):		8. <u>Weather</u> : Temperature: Precipitation: Wind: Relative Humidity: Cloud Cover:	
9.a. Instrument, ID Number Calibrated? Indicate below.	9.b. Monitoring Person Name(s)	9.c. Results (units)	9.d. Location	9.f. Time	9.g. Interferences and Comments
10. Safety Officer Review:		<u>Potential Health Effects</u> : Bruise/Lacerations, Organ Damage, Central Nervous System Effects, Cancer, Reproductive Damage, Low Back Pain, Temporary Hearing Loss, Dermatitis, Respiratory Effects, Bone Breaks, & Eye Burning			ICS-208-CG SSP-E-1 (rev 9/06): Page ____ of ____

CG ICS SSP: PERSONAL PROTECTIVE EQUIPMENT	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)
	5. Supervisor/Leader	6. Location and Size of Site	7. Hazards Addressed:	8. For Emergencies Contact:
	9. Equipment:			10. References Consulted:
11. Inspection Procedures:	12. Donning Procedures:	13. Doffing Procedures:	14. Limitations and Precautions (include maximum stay time in PPE):	
15. Prepared By:	16. Date/Time Briefed:	<u>Potential Health Effects:</u> Bruise/Lacerations, Organ Damage, Central Nervous System Effects, Cancer, Reproductive Damage, Low Back Pain, Temporary Hearing Loss, Dermatitis, Respiratory Effects, Bone Breaks, Eye Burning		ICS-208-CG SSP-F: (Rev 9/06) Page _____ of _____

CG ICS SSP: DECONTAMINATION	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)
5. Supervisor/Leader	6. Location and Size of Site	7. For Emergencies Contact:		8. Hazard(s) Addressed:
9. Equipment:				10. References Consulted:
11. Contamination Avoidance Practices:	12. Decon Diagram: <input type="checkbox"/> Attached, <input type="checkbox"/> Drawn below			13. Decon Steps
14. Prepared By:	15. Date/Time Briefed:	Potential Health Effects: Bruise/Lacerations, Organ Damage, Central Nervous System Effects, Cancer, Reproductive Damage, Low Back Pain, Temporary Hearing Loss, Dermatitis, Respiratory Effects, Bone Breaks, Eye Burning		ICS-208-CG SSP-G (rev 9/06): Page _____ of _____

CG ICS SSP: ENFORCEMENT LOG	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)	
5. Supervisor/Leader	6. For Emergencies Contact:			7. Attachments:	
8.a. Job Task/Activity	8.b. Hazards	8.c. Deficiency	8.d. Action Taken	8.e. Safety Plan Amended?	8.f. Signature of Supervisor/Leader
9. Prepared By:	10. Date/Time Briefed:	HAZARD LIST: Physical/Safety, Toxic, Explosion/Fire, Oxygen Deficiency, Ionizing Radiation, Biological, Biomedical, Electrical, Heat Stress, Cold Stress, Ergonomic, Noise, Cancer, Dermatitis, Drowning, Fatigue, Vehicle, & Diving			ICS-208-CG SSP-H (rev 9/06): Page ____ of ____

CG ICS SSP: Emergency Safety & Response Plan 1910.120 Compliance Checklist (Form A)	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Site Supervisor/Leader	5. Location of Site
6.a. Cite: 1910.120	6.b. Requirement(sections that duplicate or explain are omitted)		6.c. ICS Form	6.d. Check	6.e. Comments
(q)(1)	Is the plan in writing?		SSP-A	<input type="checkbox"/>	
(1)	Is the plan available for inspection by employees?		N/A	<input type="checkbox"/>	Performance based
(q)(2)(i)	Does the plan address pre-emergency planning and coordination?		SSP-A	<input type="checkbox"/>	
(ii)	Does it address personnel roles?		SSP-A	<input type="checkbox"/>	
(ii)	Does it address lines of authority?		SSP-A	<input type="checkbox"/>	
(ii)	Does it address communications?		SSP-A	<input type="checkbox"/>	
(iii)	Does it address emergency recognition?		SSP-A	<input type="checkbox"/>	
(iii)	Does it address emergency prevention?		SSP-A	<input type="checkbox"/>	
(iv)	Does it identify safe distances?		SSP-A	<input type="checkbox"/>	
(iv)	Does it address places of refuge?		SSP-A	<input type="checkbox"/>	
(v)	Does it address site security and control?		SSP-A	<input type="checkbox"/>	
(vi)	Does it identify evacuation routes?		SSP-A	<input type="checkbox"/>	
(vi)	Does it identify evacuation procedures?		SSP-A	<input type="checkbox"/>	
(vii)	Does it address decontamination?		SSP-A	<input type="checkbox"/>	
(viii)	Does it address medical treatment and first aid?		SSP-A	<input type="checkbox"/>	
(ix)	Does it address emergency alerting procedures?		SSP-A	<input type="checkbox"/>	
(ix)	Does it address emergency response procedures		SSP-A	<input type="checkbox"/>	
(x)	Was the response critiqued?		N/A	<input type="checkbox"/>	Performance based
(xi)	Does it identify Personal Protection Equipment?		SSP-A	<input type="checkbox"/>	
(xi)	Does it identify emergency equipment?		SSP-A	<input type="checkbox"/>	
(q)(3)(ii)	All the hazardous substances identified to the extent possible?		N/A	<input type="checkbox"/>	Performance based
(ii)	All the hazardous conditions identified to the extent possible?		N/A	<input type="checkbox"/>	Performance based
(ii)	Was site analysis addressed?		N/A	<input type="checkbox"/>	Performance based
(ii)	Were engineering controls addressed?		N/A	<input type="checkbox"/>	Performance based
(ii)	Were exposure limits addressed?		N/A	<input type="checkbox"/>	Performance based
(ii)	Were hazardous substance handling procedures addressed?		N/A	<input type="checkbox"/>	Performance based
(iii)	Is the PPE appropriate for the hazards identified?		N/A	<input type="checkbox"/>	Performance based
(iv)	Is respiratory protection worn when inhalation hazards present?		N/A	<input type="checkbox"/>	Performance based
(v)	Is the buddy system used in the hazard zone?		N/A	<input type="checkbox"/>	Performance based
(vi)	Are backup personnel on standby?		N/A	<input type="checkbox"/>	Performance based
(vi)	Are advanced first aid support personnel standing by?		N/A	<input type="checkbox"/>	Performance based
(vii)	Has the ICS designated safety official been identified?		SSP-A	<input type="checkbox"/>	
(vii)	Has the Safety Official evaluated the hazards?		N/A	<input type="checkbox"/>	Performance based
(viii)	Can the Safety Official communicate with IC immediately?		N/A	<input type="checkbox"/>	Performance based
(ix)	Are appropriate decontamination procedures implemented?		N/A	<input type="checkbox"/>	Performance based

CG ICS SSP: 1910.120 COMPLIANCE CHECKLIST (Form B)	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Site Supervisor/Leader	5. Location of Site
6.a. Cite: 1910.120	6.b. Requirement(sections that duplicate or explain are omitted)	6.c. ICS Form	6.d. Check	6.e. Comments	
1910.120 (b)(1)(ii)(A)	Organizational structure?	203	<input type="checkbox"/>		
(B)	Comprehensive workplan?	IAP	<input type="checkbox"/>	Incident Action Plan	
(C)	Site Safety Plan?	SSP-B	<input type="checkbox"/>		
(D)	Safety and health training program?	N/A	<input type="checkbox"/>	Responsibility of each employer	
(E)	Medical surveillance program?	N/A	<input type="checkbox"/>	Responsibility of each employer	
(F)	Employer SOPs?	N/A	<input type="checkbox"/>	Responsibility of each employer	
(G)	Written program related to site activities?	N/A	<input type="checkbox"/>		
(b)(1)(iii)	Site excavation meets shored or slope requirements in 1926?	N/A	<input type="checkbox"/>		
(b)(2)(i)(D)	Lines of communication?	201 203 205	<input type="checkbox"/>		
(b)3(iv)	Training addressed?	N/A	<input type="checkbox"/>	Responsibility of each employer	
(v)-(vi)	Information and medical monitoring addressed?	N/A	<input type="checkbox"/>	Responsibility of each employer	
(b)4(i)	Site Safety Plan kept on site?	N/A	<input type="checkbox"/>		
(ii)(A)	Safety and health hazard analysis conducted?	N/A	<input type="checkbox"/>		
(B)	Properly trained employees assigned to right jobs?	N/A	<input type="checkbox"/>		
(C)	Personnel Protective Equipment issues addressed?	SSP-F	<input type="checkbox"/>		
(E)	Frequency and types of air monitoring addressed?	SSP-E	<input type="checkbox"/>		
(F)	Site control measures in place?	SSP-B	<input type="checkbox"/>		
(G)	Decontamination procedures in place?	SSP-G	<input type="checkbox"/>		
(H)	Emergency Response Plan in place?	SSP-D	<input type="checkbox"/>		
(I)	Confined space entry procedures?	SSP-B	<input type="checkbox"/>		
(J)	Spill containment program	SSP-B	<input type="checkbox"/>		
(iii)	Pre-entry briefings conducted?	SSP-I	<input type="checkbox"/>		
(iv)	Site Safety Plan effectiveness evaluated?	SSP-H	<input type="checkbox"/>		
(c)(1)	Site characterization done?	N/A	<input type="checkbox"/>		
(c)(2)	Preliminary evaluation done by qualified person?	N/A	<input type="checkbox"/>		
(c)(3)	Hazard identification performed?	SSP-B	<input type="checkbox"/>		
(c)(4)(i)	Location and size of site identified?	SSP-B	<input type="checkbox"/>		
(ii)	Response activities, job tasks identified?	SSP-B	<input type="checkbox"/>		
(iii)	Duration of tasks identified?	SSP-B	<input type="checkbox"/>	Operational period	
(iv)	Site topography and accessibility addressed?	SSP-C	<input type="checkbox"/>		
(v)	Health and safety hazards addressed?	SSP-B	<input type="checkbox"/>		
(vi)	Dispersion pathways addressed?	SSP-B	<input type="checkbox"/>		
(vii)	Status and capabilities of medical emergency response teams?	206	<input type="checkbox"/>		
(c)(5)(i)(iv)	Chemical protective clothing addressed and properly selected?	SSP-F	<input type="checkbox"/>		
(ii)	Respiratory protection addressed?	SSP-B and F	<input type="checkbox"/>		
(iii)	Level B used for unknowns?	N/A	<input type="checkbox"/>		

CG ICS SSP: 1910.120 COMPLIANCE CHECKLIST Form B (cont)	1. Incident Name	2. Date/Time Prepared	3. Operational Period		
6.a. Cite: 1910.120	6.b. Requirement(sections that duplicate or explain are omitted)	6.c. ICS Form	6.d. Check	6.e. Comments	
1910.120 (c)(6)(i)	Monitoring for ionization conducted?	SSP-E	<input type="checkbox"/>		
(ii)	Monitoring conducted for IDLH conditions?	SSP-E	<input type="checkbox"/>		
(iii)	Personnel looking out for dangers of IDLH environments?	N/A	<input type="checkbox"/>		
(iv)	Ongoing air monitoring program in place?	SSP-E	<input type="checkbox"/>		
(c)(7)	Employees informed of potential hazard occurrence?	SSP-B	<input type="checkbox"/>		
(c)(8)	Properties of each chemical made aware to employees?	SSP-B	<input type="checkbox"/>		
(d)(1)	Appropriate site control procedures in place?	IAP, SSP-B	<input type="checkbox"/>		
(d)(2)	Site control program developed during planning stages?	IAP, SSP-B	<input type="checkbox"/>		
(d)(3)	Site map, work zones, alarms, communications addressed?	IAP, SSP-B	<input type="checkbox"/>		
(g)(1)(i)	Engineering, admin controls considered?	SSP-B	<input type="checkbox"/>		
(iii)	Personnel not rotated to reduce exposures?	N/A	<input type="checkbox"/>		
(g)(5)(i)	PPE selection criteria part of employer's program?	N/A	<input type="checkbox"/>	Responsibility of employer	
(ii)	PPE use and limitations identified?	SSP-F	<input type="checkbox"/>		
(iii)	Work mission duration identified?	SSP-F	<input type="checkbox"/>		
(iv)	PPE properly maintained and stored?	N/A	<input type="checkbox"/>	Responsibility of employer	
(vi)	Are employees properly trained and fitted with PPE?	N/A	<input type="checkbox"/>	Responsibility of employer	
(vii)	Are donning and doffing procedures identified?	SSP-F	<input type="checkbox"/>		
(viii)	Are inspection procedures properly identified?	SSP-F	<input type="checkbox"/>		
(ix)	Is a PPE evaluation program in place?	SSP-F	<input type="checkbox"/>		
(h) (3)	Periodic monitoring conducted?	SSP-E	<input type="checkbox"/>		
(k)(2)(i)	Have decontamination procedures been established?	SSP-G	<input type="checkbox"/>		
(ii)	Are procedures in place for contamination avoidance?	SSP-G	<input type="checkbox"/>		
(iii)	Is personal clothing properly decontaminated prior to leaving the site?	SSP-G	<input type="checkbox"/>		
(iv)	Are decontamination deficiencies identified and corrected?	SSP-H	<input type="checkbox"/>		
(k)(3)	Are decontamination lines in the proper location?	SSP-C	<input type="checkbox"/>		
(k)(4)	Are solutions/equipment used in decon properly disposed of?	N/A	<input type="checkbox"/>		
(k)(6)	Is protective clothing and equipment properly secured?	N/A	<input type="checkbox"/>		
(k)(7)	If cleaning facilities are used, are they aware of the hazards?	N/A	<input type="checkbox"/>		
(k)(8)	Have showers and change rooms provided, if necessary?	N/A	<input type="checkbox"/>		
(l)(1)(iii)	Are provisions for reporting emergencies identified?	SSP-D	<input type="checkbox"/>		
(iv)	Are safe distances and places of refuge identified?	SSP-B and C	<input type="checkbox"/>		
(v)	Site security and control addressed in emergencies?	SSP-D	<input type="checkbox"/>		
(vi)	Evacuation routes and procedures identified?	SSP-D	<input type="checkbox"/>		
(vii)	Emergency decontamination procedures developed?	SSP-D	<input type="checkbox"/>		
(ix)	Emergency alerting and response procedures identified?	SSP-D	<input type="checkbox"/>		
(x)	Response teams critiqued and followup performed?	SSP-H	<input type="checkbox"/>		
(xi)	Emergency PPE and equipment available?	SSP-D	<input type="checkbox"/>		

CG ICS SSP: 1910.120 COMPLIANCE CHECKLIST Form B (cont)	1. Incident Name	2. Date/Time Prepared	3. Operational Period		
6.a. Cite:	6.b. Requirement(sections that duplicate or explain are omitted)	6.c. ICS Form	6.d. Check	6.e. Comments	
1910.120 (1)(3)(i)	Emergency notification procedures identified?	SSP-D	<input type="checkbox"/>		
(ii)	Emergency response plan separate from Site Safety Plan?	SSP-D	<input type="checkbox"/>		
(iii)	Emergency response plan compatible with other plans?	SSP-D	<input type="checkbox"/>		
(iv)	Emergency response plan rehearsed regularly?	SSP-D	<input type="checkbox"/>		
(v)	Emergency response plan maintained and kept current?	SSP-H	<input type="checkbox"/>		
1910.165 (b)(2)	Can alarms be seen/heard above ambient light and noise levels?	N/A	<input type="checkbox"/>		
(b)(3)	Are alarms distinct and recognizable?	N/A	<input type="checkbox"/>		
(b)(4)	Are employees aware of the alarms and are they accessible?	SSP-D	<input type="checkbox"/>		
(b)(5)	Are emergency phone numbers, radio frequencies clearly posted?	206	<input type="checkbox"/>		
(b)(6)	Signaling devices in place where there are 10 or more workers?	IAP	<input type="checkbox"/>		
(c)(1)	Are alarms like steam whistles, air horns being used?	IAP	<input type="checkbox"/>		
(d)(3)	Are backup alarms available?	IAP	<input type="checkbox"/>		
(m)	Are areas adequately illuminated?	IAP	<input type="checkbox"/>		
(n)(1)(i)	Is an adequate supply of potable water available?	IAP	<input type="checkbox"/>		
(ii)	Are drinking water containers equipped with a tap?	IAP	<input type="checkbox"/>		
(iii)	Are drinking water containers clearly marked?	IAP	<input type="checkbox"/>		
(iv)	Is a drinking cup receptacle available and clearly marked?	IAP	<input type="checkbox"/>		
(n)(2)(i)	Are non-potable water containers clearly marked?	IAP	<input type="checkbox"/>		
(n)(3)(i)	Are their sufficient toilets available?	IAP	<input type="checkbox"/>		
(n)(4)	Have food handling issues been addressed?	IAP	<input type="checkbox"/>		
(n)(6)	Have adequate wash facilities been provided outside hazard zone?	IAP	<input type="checkbox"/>		
(n)(7)	If response is greater than 6 months, have showers been provided?	IAP	<input type="checkbox"/>		
7. Prepared By:		ICS-208-CG SSP-K (rev 9/06): Page 3. Page ____ of ____			

CG ICS SSP: 1910.120 DRUM COMPLIANCE CHECKSHEET	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)	
5. Supervisor/Leader	6. Location and Size of Site	7. For Emergencies Contact:		8. Note: <u>tanks and vaults</u> should also be treated in the same manner as described below [1910.120(j)(9)]. Many can also pose confined space hazards.	
9.a. Cite: 1910.120 (Cites that duplicate or explain requirements are omitted)	9.b. Requirement		9.c. Check	9.d. Comments	
(j)(1)(ii)	Drums meet DOT, OSHA, EPA regs for waste they contain, including shipment?		<input type="checkbox"/>		
(iii)	Drums inspected and integrity ensured prior to movement?		<input type="checkbox"/>		
(iii)	Or drums moved to an accessible location (staging area) prior to movement?		<input type="checkbox"/>		
(iv)	Unlabelled drums treated as unknown until properly identified and labeled?		<input type="checkbox"/>		
(v)	Site activities organized to minimize drum handling?		<input type="checkbox"/>		
(vi)	Employers properly warned about the hazards of moving and handling drums?		<input type="checkbox"/>		
(vii)	Suitable overpack drums are available for addressing leaking and ruptured drums?		<input type="checkbox"/>		
(viii)	Leaking materials from drums properly contained?		<input type="checkbox"/>		
(ix)	Are drums that cannot be moved, emptied of contents with transfer equipment?		<input type="checkbox"/>		
(x)	Are suspect buried drums surveyed with underground detection system?		<input type="checkbox"/>		
(xi)	Are soil and covering material above buried drums removed with caution?		<input type="checkbox"/>		
(xii)	Is the proper extinguishing equipment on scene to control incipient fires?		<input type="checkbox"/>		
(j)(2)(i)	Are airlines on supplied air systems protected from leaking drums?		<input type="checkbox"/>		
(ii)	Are employees at a safe distance, using remote equipment, when handling explosive drums?		<input type="checkbox"/>		
(iii)	Are explosive shields in place to protect workers opening explosive drums?		<input type="checkbox"/>		
(iv)	Is response equipment positioned behind shields when shields are used?		<input type="checkbox"/>		
(v)	Are non-sparking tools used in flammable or potentially flammable atmospheres?		<input type="checkbox"/>		
(vi)	Are drums under extreme pressure opened slowly & workers protected by shields/distance?		<input type="checkbox"/>		
(vii)	Are workers prohibited from standing and working on drums?		<input type="checkbox"/>		
(j)(3)	Is the drum handling equipment positioned and operated to minimize sources of ignition?		<input type="checkbox"/>		
(j)(5)(i)	For shock sensitive drums, have all non-essential employees been evacuated?		<input type="checkbox"/>		
(ii)	For shock sensitive drums: is handling equipment provided with shields to protect workers?		<input type="checkbox"/>		
(iii)	Are alarms that announce start/finish of explosive drum handling actions in place?		<input type="checkbox"/>		
(iv)	Are continuous communications in place between the drum handling site & command post?		<input type="checkbox"/>		
(v)	Are drums under pressure properly controlled for prior to handling?		<input type="checkbox"/>		
(vi)	Are drums containing packaged laboratory wastes treated as shock sensitive?		<input type="checkbox"/>		
(j)(6)(i)	Are lab packs opened by trained and experienced personnel?		<input type="checkbox"/>		
(ii)	Are lab packs showing crystallization treated as shock sensitive?		<input type="checkbox"/>		
(j)(8)(ii-iii)	Are drum staging areas manageable with marked access and egress?		<input type="checkbox"/>		
(iv)	Is bulking of drums conducted only after drum contents have been properly identified?		<input type="checkbox"/>		
10. Prepared By:			Form SSP-L (rev 9/06) Page ____ of ____		

Site Safety and Health Plan ICS-208-CG (rev 9/06)

Incident Name: _____

Date/Time Prepared: _____ **Operational Period:** _____

Purpose. The ICS Compatible Site Safety and Health Plan is designed for safety and health personnel that use the Incident Command System (ICS). It is compatible with ICS and is intended to meet the requirements of the Hazardous Waste Operations and Emergency Response regulation (Title 29, Code of Federal Regulations, Part 1910.120). The plan avoids the duplication found between many other site safety plans and certain ICS forms. It is also in a format familiar to users of ICS. Although primarily designed for oil and chemical spills, the plan can be used for all hazard situations.

Questions on the document should be addressed to the Coast Guard Office of Incident Management and Preparedness (G-RPP).

Table of Forms

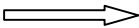
FORM NAME	FORM #	USE	REQUIRED	OPTIONAL	ATTACHED
Emergency Safety and Response Plan	A	Emergency response phase (uncontrolled)	X		
Site Safety Plan	B	Post-emergency phase (stabilized, cleanup)	X		
Site Map	C	Post-emergency phase map of site and hazards	X		
Emergency Response Plan	D	Part of Form B, to address emergencies	X		
Exposure Monitoring Plan	E	Exposure monitoring Plan to monitor exposure	X		
Air Monitoring Log	E-1	To log air monitoring data	X*		
Personal Protective Equipment	F	To document PPE equipment and procedures	X*		
Decontamination	G	To document decon equipment and procedures	X*		
Site Safety Enforcement Log	H	To use in enforcing safety on site		X	
Worker Acknowledgement Form	I	To document workers receiving briefings		X	
Form A Compliance Checklist	J	To assist in ensuring HAZWOPER compliance		X	
Form B Compliance Checklist	K	To assist in ensuring HAZWOPER compliance		X	
Drum Compliance Checklist	L	To assist in ensuring HAZWOPER compliance		X	
Other:					

* Required only if function or equipment is used during a response

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EMERGENCY SAFETY and RESPONSE PLAN	1. Incident Name		2. Date/Time Prepared			3. Operational Period		4. Attachments: Attach MSDS for each Chemical:											
5. <u>Organization IC/UC:</u>	Safety:		Entry Team:			Backup Team:		Decon Team:											
	Div/Group Supv:																		
6.a. <u>Physical Hazards and Protection</u>	6.b. Confined Space <input type="checkbox"/> Noise <input type="checkbox"/> Heat Stress <input type="checkbox"/> Cold Stress <input type="checkbox"/> Electrical <input type="checkbox"/> Animal/Plant/Insect <input type="checkbox"/> Ergonomic <input type="checkbox"/> Ionizing Rad <input type="checkbox"/> Slips/Trips/Falls <input type="checkbox"/> Struck by <input type="checkbox"/> Water <input type="checkbox"/> Violence <input type="checkbox"/> Excavation <input type="checkbox"/> Biomedical waste and/or needles <input type="checkbox"/> Fatigue <input type="checkbox"/> Other (specify)																		
6.c. <u>Tasks & Controls</u>	6d Entry Permit	6.e. Ventilate	6f. Hearing Protection	6g. Shoes (type)	6.h. Hard Hats	6i. Clothing (cold wx)	6j. Life Jacket	6l. Work/ Rest (hrs)	6.m. Fluids (amt/time)	6.n. Signs & Barricade	6.p. Fall Protect	6.q. Post Guards	6.r. Flash Protect	6.s. Work Gloves	6.t. Other				
7.a. Agent	7.b. Hazards			7.c. Target Organs			7.d. Exposure Routes		7.f. PPE		7.g. Type of PPE								
	Explosive <input type="checkbox"/>	Radioactive <input type="checkbox"/>	Eyes <input type="checkbox"/>	Nose <input type="checkbox"/>	Skin <input type="checkbox"/>	Ears <input type="checkbox"/>	Inhalation <input type="checkbox"/>	Absorption <input type="checkbox"/>	Face Shield <input type="checkbox"/>	Eyes <input type="checkbox"/>	Gloves <input type="checkbox"/>	Inner Suit <input type="checkbox"/>	Splash Suit <input type="checkbox"/>	Level A Suit <input type="checkbox"/>	SCBA <input type="checkbox"/>	APR <input type="checkbox"/>	SAR <input type="checkbox"/>	Cartridges <input type="checkbox"/>	Fire Resistance <input type="checkbox"/>
	Flammable <input type="checkbox"/>	Carcinogen <input type="checkbox"/>	Central Nervous System <input type="checkbox"/>	Respiratory <input type="checkbox"/>	Throat <input type="checkbox"/>	Liver <input type="checkbox"/>	Ingestion <input type="checkbox"/>	Injection <input type="checkbox"/>	Membrane <input type="checkbox"/>										
	Reactive <input type="checkbox"/>	Oxidizer <input type="checkbox"/>	Lungs <input type="checkbox"/>	Heart <input type="checkbox"/>	Lungs <input type="checkbox"/>	Kidney <input type="checkbox"/>	Blood <input type="checkbox"/>	Lungs <input type="checkbox"/>											
	Biomedical <input type="checkbox"/>	Corrosive <input type="checkbox"/>	Circulatory <input type="checkbox"/>	Gastrointestinal <input type="checkbox"/>	Bone <input type="checkbox"/>	Other Specify: <input type="checkbox"/>													
	Toxic <input type="checkbox"/>	Specify Other: <input type="checkbox"/>																	
8. Instruments:	8.a. Action Levels	8.b. Chemical Name(s):	8.c. LEL/UEL %	8.d. Odor Thresh Ppm	8.e. Ceiling/IDLH	8.f. STEL/TLV	8.g. Flash Pt Ignition Pt (F or C)	8.h. Vapor Pressure (mm)	8.i. Vapor Density	8.j. Specific Gravity	8.l. Boiling Pt F or C								
O2 <input type="checkbox"/>																			
CGI <input type="checkbox"/>																			
Radiation <input type="checkbox"/>																			
Total HCs <input type="checkbox"/>																			
Colorimetric <input type="checkbox"/>																			
Thermal <input type="checkbox"/>																			
Other <input type="checkbox"/>																			

EMERGENCY SAFETY and RESPONSE PLAN (Cont)	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Attachments: Attach MSDS for each Chemical	
9. <u>Decontamination:</u> Instrument Drop Off <input type="checkbox"/> Outer Boots/Glove Removal <input type="checkbox"/> Suit/Gloves/Boot Disposal <input type="checkbox"/>	Suit Wash <input type="checkbox"/> Decon Agent: Water <input type="checkbox"/> Other <input type="checkbox"/> Specify:	Bottle Exchange <input type="checkbox"/> Outer Suit Removal <input type="checkbox"/> Inner Suit Removal <input type="checkbox"/> SCBA/Mask Removal <input type="checkbox"/>	SCBA/Mask Rinse <input type="checkbox"/> Inner Glove Removal <input type="checkbox"/> Work Clothes Removal <input type="checkbox"/> Body Shower <input type="checkbox"/>	Intervening Steps <input type="checkbox"/> Specify:	
10. <u>Site Map.</u> Include: Work Zones, Locations of Hazards, Security Perimeter, Places of Refuge, Decontamination Line, Evacuation Routes, Assembly Point, Direction of North <input type="checkbox"/> Attached, <input type="checkbox"/> Drawn Below:					
11.a. <u>Potential Emergencies:</u> Fire <input type="checkbox"/> Explosion <input type="checkbox"/> Other <input type="checkbox"/>	11.b. <u>Evacuation Alarms:</u> Horn <input type="checkbox"/> # Blasts <input type="checkbox"/> Bells <input type="checkbox"/> #Rings <input type="checkbox"/> Radio Code <input type="checkbox"/> Other:	11.c. <u>Emergency Prevention and Evacuation Procedures:</u> Safe Distance:			
12. a. <u>Communications:</u> Radio <input type="checkbox"/> Phone <input type="checkbox"/> Other <input type="checkbox"/>	12.b. <u>Command #:</u>	12.c. <u>Tactical #:</u>	12.d. <u>Entry #:</u>		
13.a. <u>Site Security:</u> Personnel Assigned	13.b. <u>Procedures:</u>			13.c. <u>Equipment:</u>	
14.a. <u>Emergency Medical:</u> Personnel Assigned	14.b. <u>Procedures:</u>			14.c. <u>Equipment:</u>	
15. <u>Prepared by:</u>	16. <u>Date/Time Briefed:</u>			ICS-208-CG SSP-A Page 2. (rev 9/06): Page <u>2</u> of 9	

CG ICS SITE SAFETY PLAN (SSP) HAZARD ID/EVAL/CONTROL	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)
5. Supervisor/Leader	6. Location and Size of Site	7. Site Accessibility Land <input type="checkbox"/> Water <input type="checkbox"/> Air <input type="checkbox"/> Comments:	8. For Emergencies Contact:	9. Attachments: Attach MSDS for each Chemical
10.a. Job Task/Activity	10.b. Hazards* 	10.c. Potential Injury & Health Effects	10.d. Exposure Routes	10.e. Controls: Engineering, Administrative, PPE
			Inhalation <input type="checkbox"/> Absorption <input type="checkbox"/> Ingestion <input type="checkbox"/> Injection <input type="checkbox"/> Membrane <input type="checkbox"/> <input type="checkbox"/>	
			Inhalation <input type="checkbox"/> Absorption <input type="checkbox"/> Ingestion <input type="checkbox"/> Injection <input type="checkbox"/> Membrane <input type="checkbox"/> <input type="checkbox"/>	
			Inhalation <input type="checkbox"/> Absorption <input type="checkbox"/> Ingestion <input type="checkbox"/> Injection <input type="checkbox"/> Membrane <input type="checkbox"/> <input type="checkbox"/>	
			Inhalation <input type="checkbox"/> Absorption <input type="checkbox"/> Ingestion <input type="checkbox"/> Injection <input type="checkbox"/> Membrane <input type="checkbox"/> <input type="checkbox"/>	
			Inhalation <input type="checkbox"/> Absorption <input type="checkbox"/> Ingestion <input type="checkbox"/> Injection <input type="checkbox"/> Membrane <input type="checkbox"/> <input type="checkbox"/>	
11. Prepared By:	12. Date/Time Briefed:	* HAZARD LIST: Physical/Safety, Toxic, Explosion/Fire, Oxygen Deficiency, Ionizing Radiation, Biological, Biomedical, Electrical, Heat Stress, Cold Stress, Ergonomic, Noise, Cancer, Dermatitis, Drowning, Fatigue, Vehicle, & Diving		ICS-208-CG SSP-B (rev 9/06): Page 3 of 9

CG ICS SSP: SITE MAP	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)
5. Supervisor/Leader	6. Location and Size of Site	7. Site Accessibility Land <input type="checkbox"/> Water <input type="checkbox"/> Air <input type="checkbox"/> Comments:	8. For Emergencies Contact:	9. Include: - Work Zones - Security Perimeter - Decontamination Line - Locations of Hazards - Places of Refuge - Evacuation Routes
10. Sketch of Site: <input type="checkbox"/> Attached. <input type="checkbox"/> Drawn Here				
11. Prepared By:	12. Date/Time Briefed:	HAZARD LIST: Physical/Safety, Toxic, Explosion/Fire, Oxygen Deficiency, Ionizing Radiation, Biological, Biomedical, Electrical, Heat Stress, Cold Stress, Ergonomic, Noise, Cancer, Dermatitis, Drowning, Fatigue, Vehicle, & Diving		ICS-208-CG SSP-C (rev 9/06): Page 4 of 9

CG ICS SSP: EMERGENCY RESPONSE PLAN	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)
5. Supervisor/Leader	6. Location and Size of Site	7. For Emergencies Contact:		8. Attachments: INCLUDE ICS FORM 206 and EMT Medical Response Procedures
9. Emergency Alarm (sound and location)	10. Backup Alarm (sound and location)	11. Emergency Hand Signals	12. Emergency Personal Protective Equipment Required:	
13. Emergency Notification Procedures		14. Places of Refuge (also see site map form 208B)	15. Emergency Decon and Evacuation Steps	16. Site Security Measures
17. Prepared By:	18. Date/Time Briefed:	HAZARD LIST: Physical/Safety, Toxic, Explosion/Fire, Oxygen Deficiency, Ionizing Radiation, Biological, Biomedical, Electrical, Heat Stress, Cold Stress, Ergonomic, Noise, Cancer, Dermatitis, Drowning, Fatigue, Vehicle, & Diving		ICS-208-CG SSP-D (rev 9/06) Page 5 of 9

CG ICS SSP: Exposure Monitoring Plan		1. Incident Name		2. Date/Time Prepared:	3. Operational Period:		4. Safety Officer (Method of Contact):		
5. Specific Task/Operation	6. Survey Location	7. Survey Date/Time	8. Monitoring Methodology	9. Direct-Reading Instrument	10. Air Sampling	11. Hazard(s) to Monitor	12. Monitoring Duration	13. Reasons to Monitor	14. Laboratory Support for Analysis
			<input type="checkbox"/> Personal Breathing Zone <input type="checkbox"/> Area Air Monitoring <input type="checkbox"/> Dermal Exposure Monitoring <input type="checkbox"/> Biological Monitoring: <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Other <input type="checkbox"/> Obtain bulk samples <input type="checkbox"/> Other:	<u>Model:</u> <u>Manufacturer:</u> Last Mfr <u>Calibration Date:</u>	<u>Sampling/Analysis Method:</u> <u>Collecting Media:</u> <input type="checkbox"/> Charcoal Tube <input type="checkbox"/> Silica Gel <input type="checkbox"/> 37 mm MCE Filter <input type="checkbox"/> 37 mm PVC Filter <input type="checkbox"/> Other: _____			<input type="checkbox"/> Regulatory Compliance <input type="checkbox"/> Assess current PPE adequacy <input type="checkbox"/> Validate engineering controls <input type="checkbox"/> Monitor IDLH Conditions <input type="checkbox"/> Other _____	
			<input type="checkbox"/> Personal Breathing Zone <input type="checkbox"/> Area Air Monitoring <input type="checkbox"/> Dermal Exposure Monitoring <input type="checkbox"/> Biological Monitoring: <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Other <input type="checkbox"/> Obtain bulk samples <input type="checkbox"/> Other:	<u>Model:</u> <u>Manufacturer:</u> Last Mfr <u>Calibration Date:</u>	<u>Sampling/Analysis Method:</u> <u>Collecting Media:</u> <input type="checkbox"/> Charcoal Tube <input type="checkbox"/> Silica Gel <input type="checkbox"/> 37 mm MCE Filter <input type="checkbox"/> 37 mm PVC Filter <input type="checkbox"/> Other: _____			<input type="checkbox"/> Regulatory Compliance <input type="checkbox"/> Assess current PPE adequacy <input type="checkbox"/> Validate engineering controls <input type="checkbox"/> Monitor IDLH Conditions <input type="checkbox"/> Other _____	
			<input type="checkbox"/> Personal Breathing Zone <input type="checkbox"/> Area Air Monitoring <input type="checkbox"/> Dermal Exposure Monitoring <input type="checkbox"/> Biological Monitoring: <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Other <input type="checkbox"/> Obtain bulk samples <input type="checkbox"/> Other:	<u>Model:</u> <u>Manufacturer:</u> Last Mfr <u>Calibration Date:</u>	<u>Sampling/Analysis Method:</u> <u>Collecting Media:</u> <input type="checkbox"/> Charcoal Tube <input type="checkbox"/> Silica Gel <input type="checkbox"/> 37 mm MCE Filter <input type="checkbox"/> 37 mm PVC Filter <input type="checkbox"/> Other: _____			<input type="checkbox"/> Regulatory Compliance <input type="checkbox"/> Assess current PPE adequacy <input type="checkbox"/> Validate engineering controls <input type="checkbox"/> Monitor IDLH Conditions <input type="checkbox"/> Other _____	
			<input type="checkbox"/> Personal Breathing Zone <input type="checkbox"/> Area Air Monitoring <input type="checkbox"/> Dermal Exposure Monitoring <input type="checkbox"/> Biological Monitoring: <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Other <input type="checkbox"/> Obtain bulk samples <input type="checkbox"/> Other:	<u>Model:</u> <u>Manufacturer:</u> Last Mfr <u>Calibration Date:</u>	<u>Sampling/Analysis Method:</u> <u>Collecting Media:</u> <input type="checkbox"/> Charcoal Tube <input type="checkbox"/> Silica Gel <input type="checkbox"/> 37 mm MCE Filter <input type="checkbox"/> 37 mm PVC Filter <input type="checkbox"/> Other: _____			<input type="checkbox"/> Regulatory Compliance <input type="checkbox"/> Assess current PPE adequacy <input type="checkbox"/> Validate engineering controls <input type="checkbox"/> Monitor IDLH Conditions <input type="checkbox"/> Other _____	
15. Prepared By:			16. Date/Time Briefed:		HAZARD LIST: Potential Health Effects: Bruise/Lacerations, Organ Damage, Central Nervous System Effects, Cancer, Reproductive Damage, Low Back Pain, Temporary Hearing Loss, Dermatitis, Respiratory Effects, Bone Breaks, & Eye Burning				
18. Safety Officer Review:			<u>Reporting:</u> Monitoring results shall be logged in the ICS-208-CG SSP-E-1 form (Air Monitoring Log) and attached as part of a current Site Safety Plan and Incident Action Plan. Significant Exposures shall be immediately addressed to the IC and General Staff for immediate correction.					ICS-208-CG SSP-E (rev 9/06) Page 6 of 9	

CG ICS SSP: AIR MONITORING LOG	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)	
5. Site Location	6. Hazards of Concern	7. Action Levels (include references):		8. <u>Weather</u> : Temperature: Precipitation: Wind: Relative Humidity: Cloud Cover:	
9.a. Instrument, ID Number Calibrated? Indicate below.	9.b. Monitoring Person Name(s)	9.c. Results (units)	9.d. Location	9.f. Time	9.g. Interferences and Comments
10. Safety Officer Review:		Potential Health Effects: Bruise/Lacerations, Organ Damage, Central Nervous System Effects, Cancer, Reproductive Damage, Low Back Pain, Temporary Hearing Loss, Dermatitis, Respiratory Effects, Bone Breaks, & Eye Burning			ICS-208-CG SSP-E-1 (rev 9/06): Page 7 of 9

CG ICS SSP: PERSONAL PROTECTIVE EQUIPMENT	1. Incident Name Kirby Island Marine	2. Date/Time Prepared 02DEC08 0700	3. Operational Period	4. Safety Officer (include method of contact)
	5. Supervisor/Leader	6. Location and Size of Site	7. Hazards Addressed:	8. For Emergencies Contact:
9. Equipment:				10. References Consulted:
11. Inspection Procedures:	12. Donning Procedures:	13. Doffing Procedures:	14. Limitations and Precautions (include maximum stay time in PPE):	
15. Prepared By:	16. Date/Time Briefed:	<u>Potential Health Effects:</u> Bruise/Lacerations, Organ Damage, Central Nervous System Effects, Cancer, Reproductive Damage, Low Back Pain, Temporary Hearing Loss, Dermatitis, Respiratory Effects, Bone Breaks, Eye Burning		ICS-208-CG SSP-F: (Rev 9/06) Page <u>8</u> of <u>9</u>

CG ICS SSP: DECONTAMINATION	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)
5. Supervisor/Leader	6. Location and Size of Site	7. For Emergencies Contact:		8. Hazard(s) Addressed:
9. Equipment:				10. References Consulted:
11. Contamination Avoidance Practices:	12. Decon Diagram: <input type="checkbox"/> Attached, <input type="checkbox"/> Drawn below			13. Decon Steps
14. Prepared By:	15. Date/Time Briefed:	<u>Potential Health Effects:</u> Bruise/Lacerations, Organ Damage, Central Nervous System Effects, Cancer, Reproductive Damage, Low Back Pain, Temporary Hearing Loss, Dermatitis, Respiratory Effects, Bone Breaks, Eye Burning		ICS-208-CG SSP-G (rev 9/06): Page 9 of 9

CG ICS SSP: ENFORCEMENT LOG	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)	
5. Supervisor/Leader	6. For Emergencies Contact:			7. Attachments:	
8.a. Job Task/Activity	8.b. Hazards	8.c. Deficiency	8.d. Action Taken	8.e. Safety Plan Amended?	8.f. Signature of Supervisor/Leader
9. Prepared By:	10. Date/Time Briefed:	HAZARD LIST: Physical/Safety, Toxic, Explosion/Fire, Oxygen Deficiency, Ionizing Radiation, Biological, Biomedical, Electrical, Heat Stress, Cold Stress, Ergonomic, Noise, Cancer, Dermatitis, Drowning, Fatigue, Vehicle, & Diving			ICS-208-CG SSP-H (rev 9/06): Page ____ of ____

CG ICS SSP: Emergency Safety & Response Plan 1910.120 Compliance Checklist (Form A)	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Site Supervisor/Leader	5. Location of Site
6.a. Cite: 1910.120	6.b. Requirement(sections that duplicate or explain are omitted)		6.c. ICS Form	6.d. Check	6.e. Comments
(q)(1)	Is the plan in writing?		SSP-A	<input type="checkbox"/>	
(1)	Is the plan available for inspection by employees?		N/A	<input type="checkbox"/>	Performance based
(q)(2)(i)	Does the plan address pre-emergency planning and coordination?		SSP-A	<input type="checkbox"/>	
(ii)	Does it address personnel roles?		SSP-A	<input type="checkbox"/>	
(ii)	Does it address lines of authority?		SSP-A	<input type="checkbox"/>	
(ii)	Does it address communications?		SSP-A	<input type="checkbox"/>	
(iii)	Does it address emergency recognition?		SSP-A	<input type="checkbox"/>	
(iii)	Does it address emergency prevention?		SSP-A	<input type="checkbox"/>	
(iv)	Does it identify safe distances?		SSP-A	<input type="checkbox"/>	
(iv)	Does it address places of refuge?		SSP-A	<input type="checkbox"/>	
(v)	Does it address site security and control?		SSP-A	<input type="checkbox"/>	
(vi)	Does it identify evacuation routes?		SSP-A	<input type="checkbox"/>	
(vi)	Does it identify evacuation procedures?		SSP-A	<input type="checkbox"/>	
(vii)	Does it address decontamination?		SSP-A	<input type="checkbox"/>	
(viii)	Does it address medical treatment and first aid?		SSP-A	<input type="checkbox"/>	
(ix)	Does it address emergency alerting procedures?		SSP-A	<input type="checkbox"/>	
(ix)	Does it address emergency response procedures		SSP-A	<input type="checkbox"/>	
(x)	Was the response critiqued?		N/A	<input type="checkbox"/>	Performance based
(xi)	Does it identify Personal Protection Equipment?		SSP-A	<input type="checkbox"/>	
(xi)	Does it identify emergency equipment?		SSP-A	<input type="checkbox"/>	
(q)(3)(ii)	All the hazardous substances identified to the extent possible?		N/A	<input type="checkbox"/>	Performance based
(ii)	All the hazardous conditions identified to the extent possible?		N/A	<input type="checkbox"/>	Performance based
(ii)	Was site analysis addressed?		N/A	<input type="checkbox"/>	Performance based
(ii)	Were engineering controls addressed?		N/A	<input type="checkbox"/>	Performance based
(ii)	Were exposure limits addressed?		N/A	<input type="checkbox"/>	Performance based
(ii)	Were hazardous substance handling procedures addressed?		N/A	<input type="checkbox"/>	Performance based
(iii)	Is the PPE appropriate for the hazards identified?		N/A	<input type="checkbox"/>	Performance based
(iv)	Is respiratory protection worn when inhalation hazards present?		N/A	<input type="checkbox"/>	Performance based
(v)	Is the buddy system used in the hazard zone?		N/A	<input type="checkbox"/>	Performance based
(vi)	Are backup personnel on standby?		N/A	<input type="checkbox"/>	Performance based
(vi)	Are advanced first aid support personnel standing by?		N/A	<input type="checkbox"/>	Performance based
(vii)	Has the ICS designated safety official been identified?		SSP-A	<input type="checkbox"/>	
(vii)	Has the Safety Official evaluated the hazards?		N/A	<input type="checkbox"/>	Performance based
(viii)	Can the Safety Official communicate with IC immediately?		N/A	<input type="checkbox"/>	Performance based
(ix)	Are appropriate decontamination procedures implemented?		N/A	<input type="checkbox"/>	Performance based

CG ICS SSP: 1910.120 COMPLIANCE CHECKLIST (Form B)	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Site Supervisor/Leader	5. Location of Site
6.a. Cite: 1910.120	6.b. Requirement(sections that duplicate or explain are omitted)	6.c. ICS Form	6.d. Check	6.e. Comments	
1910.120 (b)(1)(ii)(A)	Organizational structure?	203	<input type="checkbox"/>		
(B)	Comprehensive workplan?	IAP	<input type="checkbox"/>	Incident Action Plan	
(C)	Site Safety Plan?	SSP-B	<input type="checkbox"/>		
(D)	Safety and health training program?	N/A	<input type="checkbox"/>	Responsibility of each employer	
(E)	Medical surveillance program?	N/A	<input type="checkbox"/>	Responsibility of each employer	
(F)	Employer SOPs?	N/A	<input type="checkbox"/>	Responsibility of each employer	
(G)	Written program related to site activities?	N/A	<input type="checkbox"/>		
(b)(1)(iii)	Site excavation meets shored or slope requirements in 1926?	N/A	<input type="checkbox"/>		
(b)(2)(i)(D)	Lines of communication?	201 203 205	<input type="checkbox"/>		
(b)3(iv)	Training addressed?	N/A	<input type="checkbox"/>	Responsibility of each employer	
(v)-(vi)	Information and medical monitoring addressed?	N/A	<input type="checkbox"/>	Responsibility of each employer	
(b)4(i)	Site Safety Plan kept on site?	N/A	<input type="checkbox"/>		
(ii)(A)	Safety and health hazard analysis conducted?	N/A	<input type="checkbox"/>		
(B)	Properly trained employees assigned to right jobs?	N/A	<input type="checkbox"/>		
(C)	Personnel Protective Equipment issues addressed?	SSP-F	<input type="checkbox"/>		
(E)	Frequency and types of air monitoring addressed?	SSP-E	<input type="checkbox"/>		
(F)	Site control measures in place?	SSP-B	<input type="checkbox"/>		
(G)	Decontamination procedures in place?	SSP-G	<input type="checkbox"/>		
(H)	Emergency Response Plan in place?	SSP-D	<input type="checkbox"/>		
(I)	Confined space entry procedures?	SSP-B	<input type="checkbox"/>		
(J)	Spill containment program	SSP-B	<input type="checkbox"/>		
(iii)	Pre-entry briefings conducted?	SSP-I	<input type="checkbox"/>		
(iv)	Site Safety Plan effectiveness evaluated?	SSP-H	<input type="checkbox"/>		
(c)(1)	Site characterization done?	N/A	<input type="checkbox"/>		
(c)(2)	Preliminary evaluation done by qualified person?	N/A	<input type="checkbox"/>		
(c)(3)	Hazard identification performed?	SSP-B	<input type="checkbox"/>		
(c)(4)(i)	Location and size of site identified?	SSP-B	<input type="checkbox"/>		
(ii)	Response activities, job tasks identified?	SSP-B	<input type="checkbox"/>		
(iii)	Duration of tasks identified?	SSP-B	<input type="checkbox"/>		
(iv)	Site topography and accessibility addressed?	SSP-C	<input type="checkbox"/>		
(v)	Health and safety hazards addressed?	SSP-B	<input type="checkbox"/>		
(vi)	Dispersion pathways addressed?	SSP-B	<input type="checkbox"/>		
(vii)	Status and capabilities of medical emergency response teams?	206	<input type="checkbox"/>		
(c)(5)(i)(iv)	Chemical protective clothing addressed and properly selected?	SSP-F	<input type="checkbox"/>		
(ii)	Respiratory protection addressed?	SSP-B and F	<input type="checkbox"/>		
(iii)	Level B used for unknowns?	N/A	<input type="checkbox"/>		

CG ICS SSP: 1910.120 COMPLIANCE CHECKLIST Form B (cont)	1. Incident Name	2. Date/Time Prepared	3. Operational Period		
6.a. Cite: 1910.120	6.b. Requirement(sections that duplicate or explain are omitted)	6.c. ICS Form	6.d. Check	6.e. Comments	
1910.120 (c)(6)(i)	Monitoring for ionization conducted?	SSP-E	<input type="checkbox"/>		
(ii)	Monitoring conducted for IDLH conditions?	SSP-E	<input type="checkbox"/>		
(iii)	Personnel looking out for dangers of IDLH environments?	N/A	<input type="checkbox"/>		
(iv)	Ongoing air monitoring program in place?	SSP-E	<input type="checkbox"/>		
(c)(7)	Employees informed of potential hazard occurrence?	SSP-B	<input type="checkbox"/>		
(c)(8)	Properties of each chemical made aware to employees?	SSP-B	<input type="checkbox"/>		
(d)(1)	Appropriate site control procedures in place?	IAP, SSP-B	<input type="checkbox"/>		
(d)(2)	Site control program developed during planning stages?	IAP, SSP-B	<input type="checkbox"/>		
(d)(3)	Site map, work zones, alarms, communications addressed?	IAP, SSP-B	<input type="checkbox"/>		
(g)(1)(i)	Engineering, admin controls considered?	SSP-B	<input type="checkbox"/>		
(iii)	Personnel not rotated to reduce exposures?	N/A	<input type="checkbox"/>		
(g)(5)(i)	PPE selection criteria part of employer's program?	N/A	<input type="checkbox"/>	Responsibility of employer	
(ii)	PPE use and limitations identified?	SSP-F	<input type="checkbox"/>		
(iii)	Work mission duration identified?	SSP-F	<input type="checkbox"/>		
(iv)	PPE properly maintained and stored?	N/A	<input type="checkbox"/>	Responsibility of employer	
(vi)	Are employees properly trained and fitted with PPE?	N/A	<input type="checkbox"/>	Responsibility of employer	
(vii)	Are donning and doffing procedures identified?	SSP-F	<input type="checkbox"/>		
(viii)	Are inspection procedures properly identified?	SSP-F	<input type="checkbox"/>		
(ix)	Is a PPE evaluation program in place?	SSP-F	<input type="checkbox"/>		
(h) (3)	Periodic monitoring conducted?	SSP-E	<input type="checkbox"/>		
(k)(2)(i)	Have decontamination procedures been established?	SSP-G	<input type="checkbox"/>		
(ii)	Are procedures in place for contamination avoidance?	SSP-G	<input type="checkbox"/>		
(iii)	Is personal clothing properly decontaminated prior to leaving the site?	SSP-G	<input type="checkbox"/>		
(iv)	Are decontamination deficiencies identified and corrected?	SSP-H	<input type="checkbox"/>		
(k)(3)	Are decontamination lines in the proper location?	SSP-C	<input type="checkbox"/>		
(k)(4)	Are solutions/equipment used in decon properly disposed of?	N/A	<input type="checkbox"/>		
(k)(6)	Is protective clothing and equipment properly secured?	N/A	<input type="checkbox"/>		
(k)(7)	If cleaning facilities are used, are they aware of the hazards?	N/A	<input type="checkbox"/>		
(k)(8)	Have showers and change rooms provided, if necessary?	N/A	<input type="checkbox"/>		
(l)(1)(iii)	Are provisions for reporting emergencies identified?	SSP-D	<input type="checkbox"/>		
(iv)	Are safe distances and places of refuge identified?	SSP-B and C	<input type="checkbox"/>		
(v)	Site security and control addressed in emergencies?	SSP-D	<input type="checkbox"/>		
(vi)	Evacuation routes and procedures identified?	SSP-D	<input type="checkbox"/>		
(vii)	Emergency decontamination procedures developed?	SSP-D	<input type="checkbox"/>		
(ix)	Emergency alerting and response procedures identified?	SSP-D	<input type="checkbox"/>		
(x)	Response teams critiqued and followup performed?	SSP-H	<input type="checkbox"/>		
(xi)	Emergency PPE and equipment available?	SSP-D	<input type="checkbox"/>		

CG ICS SSP: 1910.120 COMPLIANCE CHECKLIST Form B (cont)	1. Incident Name	2. Date/Time Prepared	3. Operational Period		
6.a. Cite:	6.b. Requirement(sections that duplicate or explain are omitted)	6.c. ICS Form	6.d. Check	6.e. Comments	
1910.120 (1)(3)(i)	Emergency notification procedures identified?	SSP-D	<input type="checkbox"/>		
(ii)	Emergency response plan separate from Site Safety Plan?	SSP-D	<input type="checkbox"/>		
(iii)	Emergency response plan compatible with other plans?	SSP-D	<input type="checkbox"/>		
(iv)	Emergency response plan rehearsed regularly?	SSP-D	<input type="checkbox"/>		
(v)	Emergency response plan maintained and kept current?	SSP-H	<input type="checkbox"/>		
1910.165 (b)(2)	Can alarms be seen/heard above ambient light and noise levels?	N/A	<input type="checkbox"/>		
(b)(3)	Are alarms distinct and recognizable?	N/A	<input type="checkbox"/>		
(b)(4)	Are employees aware of the alarms and are they accessible?	SSP-D	<input type="checkbox"/>		
(b)(5)	Are emergency phone numbers, radio frequencies clearly posted?	206	<input type="checkbox"/>		
(b)(6)	Signaling devices in place where there are 10 or more workers?	IAP	<input type="checkbox"/>		
(c)(1)	Are alarms like steam whistles, air horns being used?	IAP	<input type="checkbox"/>		
(d)(3)	Are backup alarms available?	IAP	<input type="checkbox"/>		
(m)	Are areas adequately illuminated?	IAP	<input type="checkbox"/>		
(n)(1)(i)	Is an adequate supply of potable water available?	IAP	<input type="checkbox"/>		
(ii)	Are drinking water containers equipped with a tap?	IAP	<input type="checkbox"/>		
(iii)	Are drinking water containers clearly marked?	IAP	<input type="checkbox"/>		
(iv)	Is a drinking cup receptacle available and clearly marked?	IAP	<input type="checkbox"/>		
(n)(2)(i)	Are non-potable water containers clearly marked?	IAP	<input type="checkbox"/>		
(n)(3)(i)	Are their sufficient toilets available?	IAP	<input type="checkbox"/>		
(n)(4)	Have food handling issues been addressed?	IAP	<input type="checkbox"/>		
(n)(6)	Have adequate wash facilities been provided outside hazard zone?	IAP	<input type="checkbox"/>		
(n)(7)	If response is greater than 6 months, have showers been provided?	IAP	<input type="checkbox"/>		
7. Prepared By:		ICS-208-CG SSP-K (rev 9/06): Page 3. Page ____ of ____			

CG ICS SSP: 1910.120 DRUM COMPLIANCE CHECKSHEET	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)	
5. Supervisor/Leader	6. Location and Size of Site	7. For Emergencies Contact:		8. Note: tanks and vaults should also be treated in the same manner as described below [1910.120(j)(9)]. Many can also pose confined space hazards.	
9.a. Cite: 1910.120 (Cites that duplicate or explain requirements are omitted)	9.b. Requirement		9.c. Check	9.d. Comments	
(j)(1)(ii)	Drums meet DOT, OSHA, EPA regs for waste they contain, including shipment?		<input type="checkbox"/>		
(iii)	Drums inspected and integrity ensured prior to movement?		<input type="checkbox"/>		
(iii)	Or drums moved to an accessible location (staging area) prior to movement?		<input type="checkbox"/>		
(iv)	Unlabelled drums treated as unknown until properly identified and labeled?		<input type="checkbox"/>		
(v)	Site activities organized to minimize drum handling?		<input type="checkbox"/>		
(vi)	Employers properly warned about the hazards of moving and handling drums?		<input type="checkbox"/>		
(vii)	Suitable overpack drums are available for addressing leaking and ruptured drums?		<input type="checkbox"/>		
(viii)	Leaking materials from drums properly contained?		<input type="checkbox"/>		
(ix)	Are drums that cannot be moved, emptied of contents with transfer equipment?		<input type="checkbox"/>		
(x)	Are suspect buried drums surveyed with underground detection system?		<input type="checkbox"/>		
(xi)	Are soil and covering material above buried drums removed with caution?		<input type="checkbox"/>		
(xii)	Is the proper extinguishing equipment on scene to control incipient fires?		<input type="checkbox"/>		
(j)(2)(i)	Are airlines on supplied air systems protected from leaking drums?		<input type="checkbox"/>		
(ii)	Are employees at a safe distance, using remote equipment, when handling explosive drums?		<input type="checkbox"/>		
(iii)	Are explosive shields in place to protect workers opening explosive drums?		<input type="checkbox"/>		
(iv)	Is response equipment positioned behind shields when shields are used?		<input type="checkbox"/>		
(v)	Are non-sparking tools used in flammable or potentially flammable atmospheres?		<input type="checkbox"/>		
(vi)	Are drums under extreme pressure opened slowly & workers protected by shields/distance?		<input type="checkbox"/>		
(vii)	Are workers prohibited from standing and working on drums?		<input type="checkbox"/>		
(j)(3)	Is the drum handling equipment positioned and operated to minimize sources of ignition?		<input type="checkbox"/>		
(j)(5)(i)	For shock sensitive drums, have all non-essential employees been evacuated?		<input type="checkbox"/>		
(ii)	For shock sensitive drums: is handling equipment provided with shields to protect workers?		<input type="checkbox"/>		
(iii)	Are alarms that announce start/finish of explosive drum handling actions in place?		<input type="checkbox"/>		
(iv)	Are continuous communications in place between the drum handling site & command post?		<input type="checkbox"/>		
(v)	Are drums under pressure properly controlled for prior to handling?		<input type="checkbox"/>		
(vi)	Are drums containing packaged laboratory wastes treated as shock sensitive?		<input type="checkbox"/>		
(j)(6)(i)	Are lab packs opened by trained and experienced personnel?		<input type="checkbox"/>		
(ii)	Are lab packs showing crystallization treated as shock sensitive?		<input type="checkbox"/>		
(j)(8)(ii-iii)	Are drum staging areas manageable with marked access and egress?		<input type="checkbox"/>		
(iv)	Is bulking of drums conducted only after drum contents have been properly identified?		<input type="checkbox"/>		
10. Prepared By:			Form SSP-L (rev 9/06) Page ____ of ____		

SPE WORK SHEET AID

SPE RISK ASSESSMENT MODEL WORK SHEET

The SPE model assesses risks for specific hazards, such as those involved in launching or recovering a small boat or aircraft, by determining risk as a function of severity, probability, and exposure; i.e., $Risk = f(S,P,E)$. This model uses this formula:

$$\text{Risk} = \text{Severity} \times \text{Probability} \times \text{Exposure}$$

Severity: Severity is an event's potential consequences measured in terms of degree of damage, injury, or impact on a mission. Should something go wrong, the results are likely to occur in one of the following areas:

- Injury or Death
- Equipment Damage
- Mission Degradation
- Reduced Morale
- Adverse Publicity
- Administrative and/or Disciplinary Actions.

Severity can vary from 1 to 5:

- 1= None or slight
- 2= Minimal
- 3= Significant
- 4= Major
- 5= Catastrophic

Probability: Probability is the likelihood that the potential consequences will occur.

Probability can vary from 1 to 5:

- 1= Impossible or remote under any conditions
- 2= Unlikely under normal conditions
- 3= About 50-50
- 4 = Greater than 50%
- 5= Very likely to happen

Exposure: Exposure is the amount of time, number of occurrences, number of people, and/or amount of equipment involved in an event, expressed in time, proximity, volume, or repetition.

Exposure can vary from 1 to 4:

- 1= None or below average
- 2= Average
- 3= Above average
- 4 = Great

Risk: By computing the level of risk, we can evaluate its potential impact on mission effectiveness and execution. After computing the risk values using the formula **Risk = S x P x E**, we need to control substantial to very high values:

SPE WORK SHEET AID

Values	Degree of Risk	Guidance
80-100	Very High	Discontinue, Stop
60-79	High	Correct Immediately
40-59	Substantial	Correction Required
20-39	Possible	Attention Needed
1-19	Slight	Possibly Acceptable

After computing the risk levels for each hazard identified, we can order hazards from the highest to the lowest risk to focus first on the areas of most concern in conditions of limited resources.