



Ref Code: (H & S Dept)	OPS-PRO-098	<b>RISK ASSESSMENT (RA2)</b>	 <b>DEVON &amp; SOMERSET</b> FIRE & RESCUE SERVICE
Description of activity / item being assessed	<b>Rapid Intervention Vehicle Mobilising Procedures – Porlock and Princetown</b>		

Scope	Type of assessment				Domain			
This RA2 is to support the Gartan crewing rule set implemented for Porlock and Princetown which allows flexible crewing between two and six dependant on resources available at time of incident. This also includes occurrences when reserve appliances are located at station.	Initial		Specific		Operational	x	Training	
	Review	x	Generic		Non- Operational		Other (Please state)	

The table immediately below in red gives possible control measures which could be included in most Control Measure sections and as such are not included in every Sub Routine for ease of reading.


					<ul style="list-style-type: none"> <li>• Training, knowledge and experience leading to competency.</li> <li>• Supervision.</li> <li>• First aid provision.</li> <li>• Safety brief.</li> <li>• RIV in sole attendance to conduct a DRA which will take into account the current available resources and expected attendance time for further resources.</li> <li>• Thermal image camera on each RIV to assist DRA.</li> <li>• Use of modern technologies e.g.</li> </ul>				
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					<b>Water Misting</b> • DSFRS Response Plans				
Sub Routine / Task	Haz No	Hazard Description	Likely Harm	To Whom	Existing Control Measures	Risk Rating			Are Additional Control Measures Required?
						L	S	R	
<b>Mobilising including with a crew of 2 or 3</b>	1	Incorrect PDA mobilised due to limited crewing potentially leading to reduced support for operational firefighters	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Psychological Trauma.</li> <li>Vehicle will not meet the needs of the end user due insufficient crewing levels</li> <li>Corporate Manslaughter charges</li> <li>Civil litigation</li> <li>Reputational damage</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Control Mobilising Process</li> <li>Check control mobilising process to ensure correct PDA is mobilised</li> <li>Porlock/Princetown RIVs, where availability permits, should be deployed with a crew of 4 to 6 (four to six) though this may be reduced to a minimum of 2 (two) – ICS qualified / Driver if there is limited availability.</li> <li>Incident Commander to “make up” for an additional appliance immediately if crew of 2 to or 3 are mobilised to one pump incident.</li> <li>Nearest available appliance to be mobilised at same time on IC’s request (as above).</li> <li>IC to confirm where additional appliance(s) are being mobilised from to assist his decision making process.</li> </ul>	3	5	15	

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Mobilising including with a crew of 2 or 3 cont.			<ul style="list-style-type: none"><li>Firefighter death</li></ul>	<ul style="list-style-type: none"><li>Operational Personnel</li></ul>	<ul style="list-style-type: none"><li>User specification and end user involvement to ensure end product meets needs of the Service and the User.</li><li>Load capacity &amp; equipment to be carried agreed</li><li>Comprehensive inventory on RIV with additional e-Hydraulic RTC equipment, water misting system etc.</li><li>Full project overview provided to FBU, FOA &amp; FRSA, Porlock/Princetown crews and local communities.</li></ul>	3	5	15	None identified	
	2	Attributes not matching National Incident Type or SOPs	<ul style="list-style-type: none"><li>Death.</li><li>Musculo-skeletal injuries.</li><li>Psychological Trauma.</li></ul>	<ul style="list-style-type: none"><li>Operational Personnel.</li></ul>	<ul style="list-style-type: none"><li>Control Mobilising Process</li><li>Incident Command System</li><li>DRA</li><li>Establish and maintain cordons.</li><li>Load capacity &amp; equipment to be carried agreed</li><li>Comprehensive inventory on RIV with additional e-Hydraulic RTC equipment, water misting system etc.</li></ul>	1	5	5		
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	3	Delay in full PDA attending.	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Psychological Trauma.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Control Mobilising Process</li> <li>Incident Command System</li> <li>DRA</li> <li>Establish and maintain cordons.</li> </ul>	2	5	10	None identified
	4	Intimidation/ Violence from members of public/affected person / Moral pressure to act before arrival of additional appliance(s)	<ul style="list-style-type: none"> <li>Personal injuries.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>FRS violence / aggression risk assessment.</li> <li>Establish and maintain cordons.</li> <li>Full firefighting PPE.</li> <li>Request Police assistance/ support if violent and confrontational conditions are identified or are likely to be expected.</li> <li>Personnel to carry out dynamic risk assessment of situation and act accordingly. Fire Control to be kept informed of decisions made.</li> <li>ARA to be recorded</li> </ul>	2	4	8	None identified
<b>Fires</b>	5	Fire, heat and smoke.	<ul style="list-style-type: none"> <li>Death / asphyxiation.</li> <li>Burns.</li> <li>Scalds.</li> <li>Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish and maintain cordons.</li> <li>BA procedures.</li> <li>P3 particulate masks.</li> <li>Firefighting jet.</li> <li>Safety jet.</li> <li>Tactical ventilation.</li> <li>Full firefighting PPE.</li> <li>Positive Pressure Ventilation (PPV).</li> </ul>	2	5	10	None identified


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Fires cont.	6	Fire water run-off.	<ul style="list-style-type: none"> <li>Environmental pollution.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>DRA.</li> <li>Pollution control equipment.</li> <li>HMEPA advice.</li> <li>Environment Agency advice.</li> <li>Environmental protection procedures.</li> <li>Incident command procedure.</li> </ul>	2	4	8	None identified
	7	Fire loading (stacked goods) leading to collapse (crews trapped by escalating incident)	<ul style="list-style-type: none"> <li>Death.</li> <li>Burns.</li> <li>Scalds.</li> <li>Crush /impact injuries.</li> <li>Musculo-skeletal injuries.</li> <li>Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish &amp; maintain cordons.</li> <li>Tactical ventilation.</li> <li>Communications.</li> <li>Firefighting jet.</li> <li>Safety jet.</li> <li>BA procedures.</li> <li>Full firefighting PPE.</li> </ul>	2	5	10	None identified
	8	Exposure to and inhalation of fibrous loft/roof insulation materials	<ul style="list-style-type: none"> <li>Respiratory injury.</li> <li>Rash and skin. Irritation.</li> <li>Eye irritation.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>BA procedures.</li> <li>Particulate masks.</li> <li>Eye protection.</li> <li>Full firefighting PPE.</li> </ul>	2	4	8	None identified
	9	Arduous working conditions.	<ul style="list-style-type: none"> <li>Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Additional Crew assistance.</li> <li>Subsequent Crew rotation.</li> <li>FRS welfare arrangements.</li> </ul>	3	3	9	None identified
	10	Asbestos containing materials.	<ul style="list-style-type: none"> <li>Death.</li> <li>Respiratory illness.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Upwind approach.</li> <li>Establish and maintain cordons.</li> <li>Inspection of asbestos register.</li> <li>Minimum personnel in risk area.</li> <li>Damping down.</li> <li>HMEPA.</li> </ul>	2	5	10	None identified

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					<ul style="list-style-type: none"> <li>Decontamination procedures.</li> <li>Hygiene procedures.</li> <li>Health surveillance.</li> <li>P3 particulate masks.</li> <li>Breathing apparatus.</li> <li>Full firefighting PPE.</li> </ul>				
	11	Basements/ Cellars.	<ul style="list-style-type: none"> <li>Crush/ impact injuries.</li> <li>Musculo-skeletal injuries.</li> <li>Infection.</li> <li>Burns.</li> <li>Scalds.</li> <li>Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>BA procedures.</li> <li>Pre-determined firefighter evacuation routes.</li> <li>Lighting.</li> <li>Main jets.</li> <li>Safety jet.</li> <li>Full firefighting PPE.</li> <li>Decontamination procedures.</li> <li>Post exposure reporting.</li> <li>Hygiene procedures.</li> <li>Welfare procedures.</li> <li>Health surveillance</li> </ul>	2	4	8	None identified
	12	Complex layout leading to disorientation / trapped / isolated.	<ul style="list-style-type: none"> <li>Death.</li> <li>Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>BA procedures.</li> <li>Communications.</li> <li>Lighting.</li> <li>Tactical ventilation.</li> <li>Thermal Image Camera (TIC).</li> <li>Full firefighting PPE.</li> <li>Liaison with on-site staff i.e. provision of plans.</li> </ul>	2	5	10	None identified

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Fires cont.	13	Compressed gas cylinders.	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Blast injuries.</li> <li>• Burns.</li> <li>• Scalds.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Isolation / removal.</li> <li>• Cylinder procedures.</li> <li>• BA procedures.</li> <li>• Full firefighting PPE.</li> <li>• Specialist Advice.</li> <li>• HMEPA.</li> </ul>	2	5	10	None identified
	14	Biohazards.	<ul style="list-style-type: none"> <li>• Infection.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Avoid contact.</li> <li>• Establish and maintain cordons.</li> <li>• Hazmat procedures.</li> <li>• Hygiene procedures.</li> <li>• Welfare procedures.</li> <li>• Decontamination procedures.</li> <li>• Full firefighting PPE.</li> <li>• Post exposure reporting.</li> <li>• Health surveillance.</li> </ul>	2	4	8	None identified
	15	Booby traps.	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Blast injuries.</li> <li>• Infection.</li> <li>• Electrocution.</li> <li>• Crush injuries.</li> <li>• Puncture wounds.</li> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts &amp; bruises.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Identify and use avoidance routes to gain access.</li> <li>• Establish and maintain cordons.</li> <li>• Local isolation of services.</li> <li>• Lighting.</li> <li>• Communications.</li> <li>• Hygiene procedures.</li> <li>• Welfare procedures.</li> <li>• Decontamination procedures.</li> <li>• Full firefighting PPE.</li> <li>• Post exposure reporting.</li> <li>• Health surveillance.</li> <li>• Liaison with Police.</li> <li>• Attendance of utilities rep.</li> </ul>	1	5	5	None identified

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	16	Contact with Animals/Insects.	<ul style="list-style-type: none"> <li>• Infection.</li> <li>• Crush injuries.</li> <li>• Puncture wounds.</li> <li>• Abrasions, cuts &amp; bruises.</li> <li>• Stings.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Isolation.</li> <li>• Communications.</li> <li>• Full firefighting PPE.</li> <li>• Hygiene procedures.</li> <li>• Welfare procedures.</li> <li>• Decontamination procedures.</li> <li>• Full firefighting PPE.</li> <li>• Post exposure reporting.</li> <li>• Health surveillance.</li> <li>• Liaison with owner.</li> <li>• Specialist advice / assistance from vet / RSPCA etc.</li> </ul>	2	4	8	None identified
	17	Contact with plant and machinery.	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Crush injuries.</li> <li>• Burns.</li> <li>• Scalds.</li> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts &amp; bruises.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Isolation.</li> <li>• Avoidance routes.</li> <li>• Lighting.</li> <li>• BA procedures.</li> <li>• Tactical ventilation.</li> <li>• Thermal Image Camera (TIC).</li> <li>• Full firefighting PPE.</li> <li>• Isolation of supply by engineer.</li> <li>• On site liaison regarding controls / isolation.</li> </ul>	2	5	10	None identified
	18	Electricity.	<ul style="list-style-type: none"> <li>• Electrocutation.</li> <li>• Electric shock.</li> <li>• Burns.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Isolation of services.</li> <li>• Establish and maintain cordons.</li> <li>• Full firefighting PPE.</li> <li>• Attendance of utilities rep.</li> <li>• Cable avoidance tools (CAT) and other detection equipment.</li> </ul>	2	5	10	None identified

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	19	Environmental conditions (temperature-related)	<ul style="list-style-type: none"> <li>Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>FRS welfare arrangements.</li> <li>Crew rotation.</li> <li>Full firefighting PPE.</li> </ul>	2	4	8	None identified
	20	Environmental conditions affecting visibility leading to slips, trips and falls.	<ul style="list-style-type: none"> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts &amp; bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish and maintain cordons.</li> <li>Lighting.</li> <li>Full firefighting PPE.</li> </ul>	3	3	9	None identified
	21	Excessive Noise.	<ul style="list-style-type: none"> <li>Noise induced hearing loss.</li> <li>Loss of command due to inaudibility.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Eliminate source.</li> <li>Minimise exposure.</li> <li>Increase distance.</li> <li>Crew rotation.</li> <li>Hearing protection.</li> </ul>	2	3	6	None identified
	22	Failure of structural integrity (including sandwich panels).	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Crush / impact injuries.</li> <li>Respiratory illness.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Identify hazard zone.</li> <li>Establish and maintain cordons.</li> <li>Lighting.</li> <li>Safety observer.</li> <li>BA procedures.</li> <li>Evacuation procedure.</li> <li>P3 particulate masks.</li> <li>Full firefighting PPE.</li> <li>Seek specialist advice from competent person on/off site.</li> </ul>	2	5	10	None identified


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	23	Falls from Height	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Impact injuries.</li> <li>• Suspension syncope.</li> <li>• Puncture wounds.</li> <li>• Musculo-skeletal injuries.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Working at height (WAH) procedures.</li> <li>• Lighting.</li> <li>• Full firefighting PPE.</li> <li>• Provision of working platforms.</li> <li>• Aerial ladder platform (ALP).</li> <li>• USAR.</li> </ul>	2	5	10	None identified
	24	Falls into Pits/ Pools.	<ul style="list-style-type: none"> <li>• Drowning.</li> <li>• Secondary drowning.</li> <li>• Contamination.</li> <li>• Infection.</li> <li>• Musculo-skeletal injuries.</li> <li>• Hypothermia.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Establish and maintain cordons.</li> <li>• Minimum persons in risk area.</li> <li>• Water safety procedures.</li> <li>• Lighting.</li> <li>• Hygiene procedures.</li> <li>• Welfare procedures.</li> <li>• Full firefighting PPE.</li> <li>• Decontamination procedures.</li> <li>• Post exposure reporting.</li> <li>• Health surveillance.</li> </ul>	2	5	10	None identified
	25	Falls into water.	<ul style="list-style-type: none"> <li>• Drowning.</li> <li>• Secondary drowning.</li> <li>• Hydrostatic shock.</li> <li>• Infection.</li> <li>• Musculo-skeletal injuries.</li> <li>• Hypothermia.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Water safety procedures</li> <li>• Lighting.</li> <li>• Hygiene procedures.</li> <li>• Welfare procedures.</li> <li>• Decontamination procedures.</li> <li>• Post exposure reporting.</li> <li>• Health surveillance.</li> <li>• Full firefighting PPE.</li> </ul>	2	5	10	None identified


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	26	Fire loading leading to rapid fire spread (crews trapped by escalating incident)	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Burns.</li> <li>• Scalds.</li> <li>• Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Establish &amp; maintain cordons.</li> <li>• Communications.</li> <li>• Firefighting jet.</li> <li>• Safety jet.</li> <li>• BA procedures.</li> <li>• Full firefighting PPE.</li> </ul>	2	5	10	None identified
	27	Ground conditions leading to slips, trips and falls.	<ul style="list-style-type: none"> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts &amp; bruises.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Establish and maintain cordons.</li> <li>• Avoidance routes.</li> <li>• Scene lighting.</li> <li>• Full firefighting PPE.</li> </ul>	3	3	9	None identified
	28	Failure of internal cable fixings.	<ul style="list-style-type: none"> <li>• Electrocution.</li> <li>• Electric shock.</li> <li>• Electrical burns.</li> <li>• Entrapment.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Isolation of services.</li> <li>• BA procedures.</li> <li>• Lighting.</li> <li>• Shorten travel distances / use of other routes.</li> <li>• Removal / securing of cables.</li> <li>• Insulated wire cutters.</li> <li>• Thermal Image Camera (TIC).</li> <li>• Full firefighting PPE.</li> <li>• Attendance of utilities rep.</li> </ul>	2	5	10	None identified
	29	Flashover/ Backdraught. Fire gas ignition.	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Burns.</li> <li>• Scalds.</li> <li>• Musculo-skeletal injuries.</li> <li>• Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Establish &amp; maintain cordons.</li> <li>• BA procedures.</li> <li>• Communications.</li> <li>• Firefighting jet.</li> <li>• Safety jet.</li> <li>• Tactical ventilation.</li> <li>• Full firefighting PPE.</li> <li>• Use of fire protection engineered solutions.</li> <li>• Positive Pressure Ventilation.</li> </ul>	2	5	10	None identified

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	30	Large undivided compartments.	<ul style="list-style-type: none"> <li>Death.</li> <li>Burns.</li> <li>Scalds.</li> <li>Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Communications.</li> <li>BA procedures.</li> <li>Main jets.</li> <li>Safety jet.</li> <li>Tactical ventilation.</li> <li>Full firefighting PPE.</li> <li>Positive Pressure Ventilation (PPV).</li> </ul>	2	5	10	None identified
	31	Loss of signal.	<ul style="list-style-type: none"> <li>Death.</li> <li>Personal injury.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>BA procedures.</li> <li>Emergency team.</li> <li>Evacuation procedure.</li> <li>Use of runners.</li> <li>Leaky feeder.</li> <li>Signal booster.</li> <li>Airwave radios.</li> </ul>	2	5	10	None identified
	32	Manual handling of casualties/ equipment.	<ul style="list-style-type: none"> <li>Musculo-skeletal injuries.</li> <li>Impact injuries.</li> <li>Crush injuries.</li> <li>Abrasions, cuts, bruises</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Correct use of manual handling techniques: Task, Individual, load, Environment. (TILE).</li> <li>Full firefighting PPE.</li> </ul>	3	3	9	None identified
	33	Operational imperative (moral pressure to act.)	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Psychological Trauma.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish and maintain cordons.</li> <li>Critical incident stress management.</li> <li>On-site staff or request Police assistance to maintain cordons.</li> </ul>	2	5	10	None identified
	34	Overhead power lines & high voltage equipment.	<ul style="list-style-type: none"> <li>Electrocution.</li> <li>Electric shock.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish and maintain cordons.</li> <li>Safe approach distances.</li> <li>Safety observer.</li> <li>Attendance of utilities rep.</li> </ul>	2	5	10	None identified

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	35	Premises security (e.g. locked / coded doors).	<ul style="list-style-type: none"> <li>Musculo-skeletal injuries.</li> <li>Impact injuries.</li> <li>Lacerations.</li> <li>Abrasions, cuts &amp; bruises</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Door entry equipment/ techniques.</li> <li>Full firefighting PPE.</li> </ul>	3	3	9	None identified
	36	Restricted access	<ul style="list-style-type: none"> <li>Respiratory injury.</li> <li>Reduced visibility.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts &amp; bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Lighting.</li> <li>BA procedures.</li> <li>Space creation.</li> <li>Minimum persons in risk area.</li> <li>Full firefighting PPE.</li> <li>Oxygen therapy.</li> <li>Air monitoring equipment.</li> <li>BA emergency team.</li> </ul>	3	3	9	None identified
	37	Sharps/ Needles.	<ul style="list-style-type: none"> <li>Infection.</li> <li>Puncture wounds.</li> <li>Abrasions, cuts &amp; bruises.</li> <li>Lacerations.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>BA search procedures.</li> <li>Lighting.</li> <li>Full firefighting PPE.</li> <li>Post exposure reporting.</li> <li>Welfare procedures.</li> <li>Health surveillance.</li> </ul>	2	4	8	None identified
	38	Struck by objects falling from height.	<ul style="list-style-type: none"> <li>Death.</li> <li>Impact injury.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts &amp; bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Avoidance routes.</li> <li>Establish and maintain cordons.</li> <li>Safety observer.</li> <li>Lighting.</li> <li>Full firefighting PPE.</li> </ul>	2	5	10	None identified
	39	Undetected fire spread.	<ul style="list-style-type: none"> <li>Death.</li> <li>Burns</li> <li>Scalds.</li> <li>Entrapment.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Thermal Imaging Camera (TIC).</li> <li>Communications.</li> <li>External observation.</li> <li>BA procedures.</li> </ul>	2	5	10	None identified

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					<ul style="list-style-type: none"> <li>Full firefighting PPE.</li> <li>Use of CCTV.</li> <li>Interrogation of alarm panels.</li> </ul>					
	40	Working in irrespirable atmospheres (fixed installations).	<ul style="list-style-type: none"> <li>Asphyxiation.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Adherence to on-site warning signs.</li> <li>Isolation.</li> <li>BA procedures.</li> <li>On site liaison with competent person.</li> <li>Isolation of supply by engineer.</li> </ul>	2	5	10	None identified	
	41	Solar / Photo Voltaic (PV) Panel	<ul style="list-style-type: none"> <li>Death.</li> <li>Electrocution.</li> <li>Electric shock.</li> <li>Electric burns.</li> <li>Impact injuries.</li> <li>Abrasions, cuts &amp; bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish and maintain cordons.</li> <li>Safety observer.</li> <li>Full firefighting PPE.</li> </ul>	2	5	10	None identified	
	42	Inhalation of mould spores (thatched dwelling)	<ul style="list-style-type: none"> <li>Resulting in infection, irritation to respiratory tract.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>P3 particulate masks.</li> </ul>	2	4	8	None identified	
	43	Environmental conditions, - Ladder becoming unstable / falling.	<ul style="list-style-type: none"> <li>Impact injuries.</li> <li>Musculo-skeletal injuries.</li> <li>Internal injuries.</li> <li>Abrasions, cuts, bruises</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Dynamic Risk Assessment (DRA).</li> <li>Working at height procedures.</li> <li>Establish &amp; maintain cordon.</li> <li>Full firefighting PPE.</li> </ul>	2	4	8	None identified	
	44	Environmental conditions – Excessive	<ul style="list-style-type: none"> <li>Dehydration.</li> <li>Heat Stress.</li> <li>Heat exhaustion.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Risk assess PPE required to carry out specific tasks.</li> <li>Close supervision/ monitoring of</li> </ul>	3	3	9	None identified	


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		temperature induced illness.	<ul style="list-style-type: none"> <li>• Hyperthermia.</li> <li>• Sunburn.</li> </ul>		<ul style="list-style-type: none"> <li>• personnel.</li> <li>• Limiting of exposure time to UV - regular rest-breaks/crew rotation.</li> <li>• Regular re-hydration - provision of sufficient quantities of drinking water and food.</li> <li>• Use of cooling techniques, including hand cooling.</li> <li>• Provision of shaded rest areas.</li> </ul>				
	45	Flammable atmosphere (LPG/Natural Gas) leading to explosion	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Respiratory injuries.</li> <li>• Burns.</li> <li>• Scalds.</li> <li>• Noise induced hearing loss.</li> <li>• Impact injuries.</li> <li>• Musculo-skeletal injuries.</li> <li>• Cuts and bruises.</li> </ul>	• Operational Personnel.	<ul style="list-style-type: none"> <li>• Establish and maintain cordons.</li> <li>• Isolation of services.</li> <li>• Intrinsically safe equipment.</li> <li>• BA procedures.</li> <li>• Tactical ventilation.</li> <li>• Firefighting jet.</li> <li>• Safety jet.</li> <li>• Full firefighting PPE.</li> <li>• Attendance of utilities rep.</li> <li>• Seek specialist advice from competent person on/off site.</li> <li>• Gas monitoring.</li> </ul>	2	5	10	None identified
<b>Building Collapse</b>	46	Adverse weather (rain) Leading to further/secondary collapse.	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Musculo-skeletal injuries.</li> <li>• Impact injuries.</li> <li>• Crush injuries.</li> <li>• Abrasions, cuts, bruises.</li> </ul>	• Operational Personnel.	<ul style="list-style-type: none"> <li>• Safety observer.</li> <li>• Establish &amp; maintain cordons.</li> <li>• On site safety brief (to include implications of soaking building materials on weight and possible further collapse).</li> <li>• Full firefighting PPE.</li> <li>• Specialist rescue teams/advice.</li> <li>• Advice from a structural</li> </ul>	2	5	10	None identified

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					<ul style="list-style-type: none"> <li>engineer.</li> <li>Increase Safety observers to monitor local weather conditions and personnel.</li> </ul>				
	47	Adverse weather (wind) Leading to further/secondary collapse.	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Impact injuries.</li> <li>Crush injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Safety observer.</li> <li>Establish &amp; maintain cordons.</li> <li>On site safety brief.</li> <li>Full firefighting PPE.</li> <li>Physical screening.</li> <li>Specialist rescue teams/advice.</li> <li>Advice from a structural engineer.</li> <li>Increase Safety observers to monitor local weather conditions and personnel.</li> </ul>	2	5	10	None identified
	48	Arduous working conditions.	<ul style="list-style-type: none"> <li>Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Crew rotation.</li> <li>FRS welfare Procedures.</li> <li>Specialist Team PPE.</li> <li>Consider heating the rest area where crews are resting.</li> <li>Consider provision of localised shelters.</li> <li>Monitoring of personnel and systems for core body temperature.</li> <li>USAR.</li> </ul>	3	3	9	None identified
	49	Contact with glass dust.	<ul style="list-style-type: none"> <li>Respiratory injury.</li> <li>Eye Injury.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Damping.</li> <li>Establish &amp; maintain cordons.</li> <li>P3 particulate masks.</li> <li>Eye protection.</li> </ul>	2	4	8	None identified


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					<ul style="list-style-type: none"> <li>Full fire fighting PPE.</li> <li>USAR (Respiratory Protection in the form of filtered full-face respirators).</li> </ul>				
	50	Contact with glass.	<ul style="list-style-type: none"> <li>Cuts and lacerations.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Safety observer.</li> <li>Establish &amp; maintain cordons.</li> <li>Eye protection.</li> <li>Full firefighting PPE.</li> </ul>	3	3	9	None identified
	51	Contact with static dust giving potential contact with corrosive or caustic material/dust and other hidden materials.	<ul style="list-style-type: none"> <li>Respiratory injury.</li> <li>Impaired visibility.</li> <li>Eye injury.</li> <li>Irritant.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Damping.</li> <li>Establish &amp; maintain cordons.</li> <li>P3 particulate masks.</li> <li>Breathing Apparatus.</li> <li>Eye protection.</li> <li>Full firefighting PPE.</li> <li>USAR (Respiratory Protection in the form of filtered full-face respirators).</li> </ul>	3	3	9	None identified
	52	Damage to mass storage vessels (Oil, gas etc)	<ul style="list-style-type: none"> <li>Death.</li> <li>Explosion.</li> <li>Noise induced hearing loss.</li> <li>Burns.</li> <li>Scalds.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish &amp; maintain cordons.</li> <li>Safety observer.</li> <li>Full firefighting PPE.</li> <li>Special advice.</li> <li>Liaison with Environment Agency.</li> </ul>	2	5	10	None identified
	53	Dust – Airborne (soot, plastics etc)	<ul style="list-style-type: none"> <li>Respiratory injury.</li> <li>Impaired visibility.</li> <li>Eye injury.</li> <li>Irritant.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Decontamination.</li> <li>Damping.</li> <li>Establish &amp; maintain cordons.</li> <li>P3 particulate masks.</li> <li>Eye protection.</li> <li>Full firefighting PPE.</li> <li>USAR (Respiratory protection in</li> </ul>	3	3	9	None identified

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					<ul style="list-style-type: none"> <li>the form of filtered full-face respirators).</li> <li>Specialist team PPE extraction systems.</li> <li>Airlines.</li> <li>Use of detection and monitoring equipment.</li> </ul>					
	54	Dust – Caustic (silica and cement dust) Suspended in the atmosphere and on horizontal surfaces.	<ul style="list-style-type: none"> <li>Respiratory injury.</li> <li>Impaired visibility.</li> <li>Eye injury.</li> <li>Irritant.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Damping.</li> <li>Establish &amp; maintain cordons.</li> <li>P3 particulate masks.</li> <li>Eye protection.</li> <li>Full firefighting PPE.</li> <li>USAR (Respiratory protection in the form of filtered full-face respirators).</li> </ul>	3	3	9	None identified	
	55	Excessive background and surrounding noise.	<ul style="list-style-type: none"> <li>Noise induced hearing loss.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Liaise with on-site personnel to establish cordons and control vehicular movement.</li> <li>Hearing protection.</li> </ul>	3	3	9	None identified	
	56	Inhalation of particulate building materials	<ul style="list-style-type: none"> <li>Respiratory injury.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish &amp; maintain cordons.</li> <li>P3 particulate masks.</li> <li>Minimise disturbance of debris.</li> <li>Damping.</li> <li>Decontamination.</li> <li>Full fire fighting PPE.</li> <li>USAR.</li> </ul>	2	4	8	None identified	

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	57	Uncontrolled rescue attempts-further /secondary collapse	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Cuts and abrasions.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish &amp; maintain cordons.</li> <li>Safety observer.</li> <li>Full firefighting PPE.</li> <li>Police for crowd control.</li> </ul>	2	5	10	None identified
	58	Working on rubble	<ul style="list-style-type: none"> <li>Impact injuries.</li> <li>Crush injuries.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> <li>Sprains / strains.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Define access/egress routes.</li> <li>Safety observer.</li> <li>Establish &amp; maintain cordons.</li> <li>On site safety brief.</li> <li>Lighting.</li> <li>Full fire fighting PPE.</li> <li>Specialist Team/PPE.</li> <li>On-site technical briefing of the types of collapse and the instabilities expected to be encountered.</li> </ul>	3	3	9	None identified
<b>Aircraft Incidents</b>	59	Accidental deployment of Automatically Deployable Emergency Locator Transmitter (ADELT) – projectile risk	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Impact injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Clear and designated access routes.</li> <li>Establish and maintain cordons.</li> <li>Full firefighting PPE.</li> <li>Consider a controlled deployment of the device in order to manage the activation.</li> </ul>	2	5	10	None identified
	60	Accidental deployment of flotation devices (helicopters)	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Crush injury.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Avoid directing water jets onto the specific location of any flotation devices.</li> <li>Stabilisation of aircraft.</li> <li>Clear and designated access routes.</li> </ul>	2	5	10	None identified

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					<ul style="list-style-type: none"> <li>Establish and maintain cordons.</li> <li>Full firefighting PPE.</li> <li>Consider a controlled deployment of the device in order to manage the activation in consultation with SME.</li> </ul>				
	61	Application of water on Metal Fires	<ul style="list-style-type: none"> <li>Burns.</li> <li>Scalds.</li> <li>Projectile injuries.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish and maintain cordons.</li> <li>Use of other firefighting strategy (class D media, copious amounts of water or controlled burning).</li> <li>Advice from HMEPA.</li> <li>Full firefighting PPE.</li> </ul>	2	4	8	None identified
	62	Ballistic parachute systems (uncontrolled actuation)	<ul style="list-style-type: none"> <li>Death.</li> <li>Impact injury.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish and maintain cordons.</li> <li>Safety cordon (90° 100m).</li> <li>Clear and designated access routes.</li> <li>Positioning of vehicles.</li> <li>Minimum no. of persons in risk area.</li> <li>Full firefighting PPE.</li> <li>Advice from Aircraft Accident Investigation Board (AAIB) / manufacturer.</li> </ul>	2	5	10	None identified


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	63	Contamination with fuels	<ul style="list-style-type: none"> <li>• Skin irritation, carcinogenic, chemical burns.</li> <li>• Burns.</li> <li>• Scalds.</li> <li>• Inhalation of fumes.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Isolation of fuel systems.</li> <li>• Clear and designated access routes.</li> <li>• Eliminate ignition sources.</li> <li>• Decontamination.</li> <li>• Hygiene procedures.</li> <li>• Cover contaminated areas.</li> <li>• Full firefighting PPE.</li> <li>• Eye protection.</li> <li>• P3 particulate masks.</li> <li>• Breathing Apparatus procedures.</li> </ul>	2	4	8	None identified
	64	Cramped conditions with poor ventilation	<ul style="list-style-type: none"> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts, bruises.</li> <li>• Needlestick injuries.</li> <li>• Impact injuries.</li> <li>• Respiratory injuries.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Lighting.</li> <li>• Clear and designated access routes.</li> <li>• Space creation.</li> <li>• Crew rotation Full firefighting PPE.</li> <li>• P3 particulate masks.</li> <li>• Gas monitoring.</li> <li>• USAR.</li> </ul>	2	4	8	None identified
	65	Electrical systems/batteries	<ul style="list-style-type: none"> <li>• Electrocution.</li> <li>• Electric shock.</li> <li>• Burns.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Isolation of source.</li> <li>• Establish and maintain cordons.</li> <li>• Clear and designated access routes.</li> <li>• Full firefighting PPE.</li> <li>• Additional PPE – Electrical gloves.</li> </ul>	2	5	10	None identified
	66	Explosion, Fire	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Overcome by fumes.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Isolation of fuel systems.</li> <li>• Minimum no. of persons in risk area.</li> </ul>	2	5	10	None identified

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			<ul style="list-style-type: none"> <li>• Burns.</li> <li>• Scalds.</li> <li>• Blast injuries.</li> <li>• Respiratory injuries.</li> </ul>		<ul style="list-style-type: none"> <li>• Establish and maintain cordons.</li> <li>• Use of foam blanket.</li> <li>• Application of firefighting media.</li> <li>• Distance and shielding.</li> <li>• Elimination of ignition sources.</li> <li>• Removal or protection of combustible items that would lead to dangerous escalation.</li> <li>• Use of ground monitors.</li> <li>• Full firefighting PPE.</li> <li>• Advice from HMEPA.</li> </ul>				
	67	Failure of pressurised systems leading to explosion	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Impact injuries.</li> <li>• Musculo-skeletal injuries.</li> <li>• Crush injury.</li> <li>• Noise induced hearing loss.</li> <li>• Abrasions, cuts, bruises.</li> </ul>	• Operational Personnel.	<ul style="list-style-type: none"> <li>• Identify hazard zone.</li> <li>• Establish and maintain cordons.</li> <li>• Clear and designated access routes.</li> <li>• Monitoring of system conditions and warning devices.</li> <li>• Avoid cutting system pipework.</li> <li>• Full firefighting PPE.</li> <li>• Seek specialist advice from competent person on/off site.</li> </ul>	2	5	10	None identified
	68	Fire involving hazardous materials in aircraft construction including Polymer Composites and fluoro-elastomers, etc.	<ul style="list-style-type: none"> <li>• Musculo-skeletal injuries.</li> <li>• Burns.</li> <li>• Scalds.</li> <li>• Respiratory injuries / disease.</li> <li>• Needlestick Injuries.</li> <li>• Abrasions, cuts, bruises.</li> </ul>	• Operational Personnel.	<ul style="list-style-type: none"> <li>• Advice from Hazardous Materials and Environmental Protection Advisor (HMEPA).</li> <li>• Application of firefighting media.</li> <li>• Establish and maintain cordons.</li> <li>• Upwind positioning of rendezvous points, equipment dumps and other holding areas.</li> <li>• Use of foam / water spray to</li> </ul>	2	4	8	None identified


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					mitigate release of harmful fibres. • Personal hygiene. • BA procedures. • P3 particulate masks. • Full firefighting PPE. • Use of Hydrofluoric Antidote gel (Calcium Glutamate).				
	69	Jet exhausts - Injuries from hot gases / struck by flying objects	• Death. • Burns. • Scalds. • Musculo-skeletal injuries. • Abrasions, cuts, bruises.	• Operational Personnel.	• Isolation of power supply. • Positioning of vehicles. • Establish and maintain cordons. • Minimum number of persons in risk area. • Lighting. • Clear and designated access routes. • Full firefighting PPE. • Additional PPE – Eye protection.	2	5	10	None identified
	70	Jet intakes - sucked into engine (induction)	• Death. • Impact injuries.	• Operational Personnel.	• Isolation of power supply. • Establish and maintain cordons. • Minimum number of persons in risk area. • Lighting. • Clear and designated access routes. • Full firefighting PPE.	2	5	10	None identified

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	71	Pilot / Passenger airbags (restraining system)	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Deactivation of pilot/passenger restraining system/ battery isolation.</li> <li>• Minimum no. of persons in risk area.</li> <li>• Clear and designated access routes.</li> <li>• Full firefighting PPE.</li> </ul>	2	5	10	None identified
	72	Polymer Composites (AKA Man made mineral fibres MMMF),	<ul style="list-style-type: none"> <li>• Needlestick injuries.</li> <li>• Respiratory injuries.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Establish and maintain cordons.</li> <li>• Avoid disturbing debris.</li> <li>• Use of foam / water spray.</li> <li>• Decontamination/cleaning of PPE.</li> <li>• Hygiene procedures.</li> <li>• P3 particulate masks.</li> <li>• Full firefighting PPE.</li> </ul>	2	4	8	None identified
	73	Rotating propellers/rotors (direct contact / propeller wash)	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts, bruises.</li> <li>• Impact injuries.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Isolation of propellers or power supply.</li> <li>• Positioning of vehicles.</li> <li>• Lighting.</li> <li>• Establish and maintain cordons.</li> <li>• Crew safety briefing.</li> <li>• Clear and designated access routes</li> <li>• Minimum no. of persons in risk area.</li> <li>• Full firefighting PPE.</li> <li>• Additional PPE – Eye protection.</li> </ul>	2	5	10	None identified

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	74	Running fuel fire	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Burns.</li> <li>• Scalds.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Application of foam blanket.</li> <li>• Use of water jet to drive fuel away from fuselage/risk area.</li> <li>• Full firefighting PPE.</li> </ul>	2	5	10	None identified
	75	Uncontrolled Movement of aircraft (inc failure of undercarriage, balloon dragged by wind)	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Musculo-skeletal injuries.</li> <li>• Crush injury.</li> <li>• Abrasions, cuts, bruises.</li> <li>• Burns.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Stabilisation of aircraft.</li> <li>• Tethering of balloon.</li> <li>• Establish and maintain cordons.</li> <li>• Clear and designated access routes.</li> <li>• Full firefighting PPE.</li> </ul>	2	5	10	None identified
	76	Actions being carried out by non-monitored persons.	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts, bruises</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Compliance with the FRS lone working policy/risk assessment.</li> <li>• Full firefighting PPE.</li> <li>• Hi viz clothing.</li> <li>• Liaison with other agency personnel.</li> </ul>	2	5	10	None identified
	77	Entrapment	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Crush injuries.</li> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Establish and maintain cordons.</li> <li>• Safety observer.</li> <li>• Minimum number of rescuers in the vicinity during lifting stage of the incident.</li> <li>• Full firefighting PPE.</li> </ul>	2	5	10	None identified
	78	Falls into water	<ul style="list-style-type: none"> <li>• Drowning.</li> <li>• Secondary Drowning.</li> <li>• Temperature related illness/injury.</li> <li>• Waterborne</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Safe working on or near water procedures.</li> <li>• Lighting.</li> <li>• Appropriate use of work restraint equipment.</li> <li>• A minimum of CFOA Module 1 (Water Awareness Training).</li> </ul>	2	5	10	None identified

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			diseases.		<ul style="list-style-type: none"> <li>Water PPE (relevant for CFOA Module 1).</li> <li>Health monitoring.</li> </ul>				
	79	Falls onto /entrapment on unstable surfaces	<ul style="list-style-type: none"> <li>Drowning.</li> <li>Secondary Drowning.</li> <li>Hypothermia.</li> <li>Hydrostatic shock.</li> <li>Asphyxiation.</li> <li>Infection.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Water safety procedures.</li> <li>Rescues from unstable surface procedures.</li> <li>Hygiene procedures.</li> <li>Welfare procedures.</li> <li>Decontamination procedures.</li> <li>Health surveillance.</li> <li>Full firefighting PPE.</li> </ul>	2	5	10	None identified
	80	High tensile fencing/barbed wire	<ul style="list-style-type: none"> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts and bruises.</li> <li>Eye injury.</li> <li>Entanglement.</li> <li>Infection.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Full firefighting PPE.</li> <li>Safety briefing for persons assisting with assessment.</li> <li>Avoid cutting/breakage.</li> <li>Eye protection.</li> <li>Use of covering materials i.e. salvage sheets.</li> </ul>	2	4	8	None identified
	81	Ineffective sedation resulting in unpredictable animal reaction during lifting operation.	<ul style="list-style-type: none"> <li>Death.</li> <li>Impact.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical lift only to be carried out when “quick release” equipment is available.</li> <li>Minimum number of rescuers in the vicinity during lifting stage of the incident.</li> <li>Liaison with Vet.</li> </ul>	2	5	10	None identified


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	82	Manual Handling	<ul style="list-style-type: none"> <li>Musculo-skeletal injuries.</li> <li>Impact injuries.</li> <li>Crush injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Positioning of lifting/rescue vehicles.</li> <li>Lighting.</li> <li>Clear and designated access routes.</li> <li>Full firefighting PPE.</li> <li>High viz.</li> <li>Task, Individual, Location, Environment (TILE).</li> </ul>	2	4	8	None identified
	83	Mechanical failure of equip leading to animal left suspend, rescuers need to approach to lower/release animal	<ul style="list-style-type: none"> <li>Injuries or death.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical lift only to be carried out when “quick release” equipment is available.</li> <li>Minimum number of rescuers in the vicinity during lifting stage of the incident.</li> </ul>	2	5	10	None identified
	84	Non FRS equipment / operators	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Impact injuries.</li> <li>Crush injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure understanding of requirements.</li> <li>Safety observers.</li> <li>Appropriate PPE for operator.</li> </ul>	2	5	10	None identified
	85	Struck by vehicle or its components	<ul style="list-style-type: none"> <li>Death.</li> <li>Impact injury.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts &amp; bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish and maintain cordons.</li> <li>Safety observer.</li> <li>Minimum number of rescuers in the vicinity during lifting stage of the incident.</li> <li>Full firefighting PPE.</li> </ul>	2	5	10	None identified


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	86	Underground hazards, cesspits, drains, wells, tanks, mines, tunnels – Vehicle weight / jacking	<ul style="list-style-type: none"> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> <li>Biohazard.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Driver site assessment.</li> <li>Full firefighting PPE.</li> <li>Lighting.</li> <li>Hygiene procedures.</li> </ul>	2	4	8	None identified
	87	Unpredictable animal behaviour	<ul style="list-style-type: none"> <li>Musculo-skeletal injuries.</li> <li>Crushing.</li> <li>Impalement.</li> <li>Kicking.</li> <li>Biting.</li> <li>Butting.</li> <li>Crushing.</li> <li>Scratching.</li> <li>Gouging.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Only animal rescue trained (AR1) personnel to enter the risk area.</li> <li>Full firefighting PPE.</li> <li>Determine the animal's egress route and final safe destination prior to release.</li> <li>Egress route for rescuers must be planned prior to rescue in conjunction with owners or other agencies.</li> <li>Veterinarian to determine duration, type and application of chemical restraint if required.</li> <li>Liaise with Natural England/RSPCA prior to release of non-indigenous species.</li> </ul>	2	4	8	None identified
	88	Veterinary medicines	<ul style="list-style-type: none"> <li>Puncture wounds / injection.</li> <li>Poisoning.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish and maintain cordons.</li> <li>Personnel in vicinity of medicines to be given additional relevant safety brief.</li> <li>Safety observer.</li> <li>Liaison with Vet.</li> </ul>	2	3	6	None identified

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	89	Working in or on mud ice or other unstable surfaces	<ul style="list-style-type: none"> <li>• Drowning.</li> <li>• Secondary Drowning.</li> <li>• Temperature related illness/injury.</li> <li>• Hydrostatic shock.</li> <li>• Asphyxiation.</li> <li>• Biohazards.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Rescues from unstable surface procedures.</li> <li>• Sufficient resources &amp; equipment.</li> <li>• Hygiene procedures.</li> <li>• Health monitoring.</li> </ul>	2	5	10	None identified
	90	Working in water	<ul style="list-style-type: none"> <li>• Drowning.</li> <li>• Secondary Drowning.</li> <li>• Temperature related illness/injury.</li> <li>• Hydrostatic shock.</li> <li>• Asphyxiation.</li> <li>• Biohazards.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Rescues from water procedures.</li> <li>• Determine cordons.</li> <li>• Hygiene procedures.</li> <li>• Health monitoring.</li> </ul>	2	5	10	None identified
	91	Biohazards.	<ul style="list-style-type: none"> <li>• Infection.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Avoid contact.</li> <li>• Establish and maintain cordons.</li> <li>• Hazmat procedures.</li> <li>• Hygiene procedures.</li> <li>• Welfare procedures.</li> <li>• Decontamination procedures.</li> <li>• Full firefighting PPE.</li> <li>• Post exposure reporting.</li> <li>• Health surveillance.</li> </ul>	2	4	8	None identified

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Rescues from height	92	Arduous working conditions (working at height)	<ul style="list-style-type: none"> <li>Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Aerial appliance.</li> <li>Working at height procedures.</li> <li>Crew rotation.</li> <li>FRS welfare arrangements.</li> <li>Use of helicopter.</li> </ul>	2	4	8	None identified
	93	Environmental conditions causing Slips, trips, falls	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Working at height procedures.</li> <li>Establish and maintain cordons.</li> <li>Safe working platform/ladders.</li> <li>Full firefighting PPE.</li> <li>Aerial appliance.</li> </ul>	2	5	10	None identified
	94	Exposure to extremes of temperature	<ul style="list-style-type: none"> <li>Physiological stress.</li> <li>Temperature related illnesses.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Welfare arrangements.</li> <li>Minimum number of personnel to be used to carry out task.</li> <li>Met Office advice.</li> </ul>	3	3	9	None identified
	95	Fragile/unstable surfaces	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Working at height procedures.</li> <li>Safe working platform/ladders.</li> <li>Establish and maintain cordons.</li> <li>Safety observer.</li> <li>Full firefighting PPE.</li> <li>Engineer consultation.</li> <li>Aerial appliance.</li> </ul>	2	5	10	None identified
	96	Non-ionising Radiation from radio aerials/microwave dishes	<ul style="list-style-type: none"> <li>Burns.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Isolation of source.</li> <li>Time, distance, shielding.</li> <li>Establish and maintain cordons.</li> <li>Clear and designated access routes.</li> <li>Full firefighting PPE.</li> </ul>	2	4	8	None identified

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	97	Subsidence/Unstable ground	<ul style="list-style-type: none"> <li>Death.</li> <li>Crush injuries.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Working at height procedures.</li> <li>Establish and maintain cordons.</li> <li>Safety observer.</li> <li>Full firefighting PPE.</li> <li>Subject matter expert.</li> <li>Aerial appliance.</li> </ul>	2	5	10	None identified
	98	Unexpected behaviour of casualty	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Working at height procedures.</li> <li>Safety observer.</li> <li>Full firefighting PPE.</li> </ul>	2	5	10	None identified
	99	Unexpected movement of structure (due to wind / remote control)	<ul style="list-style-type: none"> <li>Impact injuries.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Isolation of controls.</li> <li>Working at height procedures.</li> <li>Safe working platform.</li> <li>Establish and maintain cordons.</li> <li>Full firefighting PPE.</li> <li>Aerial appliance.</li> <li>Specialist equipment operator (e.g. crane driver).</li> <li>Met Office advice.</li> </ul>	2	4	8	None identified
<b>Silo / Grain Dryer</b>	100	Confined Space working (outside silo).	<ul style="list-style-type: none"> <li>Asphyxiation.</li> <li>Heat exhaustion.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Breathing apparatus procedures.</li> <li>Welfare procedures.</li> </ul>	2	4	8	None identified
	101	Exploding Silo throwing sections up to 130m.	<ul style="list-style-type: none"> <li>Deaths.</li> <li>Impact injuries.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Prevent oxygen ingress where possible.</li> <li>No firefighting water into structure.</li> <li>150m cordon.</li> <li>Full firefighting PPE.</li> </ul>	2	5	10	None identified


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	102	Failure of silo leading to collapse	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Crush / impact injuries.</li> <li>Respiratory illness.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Identify hazard zone.</li> <li>Establish and maintain cordons.</li> <li>Safety observer.</li> <li>Monitor effect of water application on contents.</li> <li>Manage drainage of water applied to contents.</li> <li>Full firefighting PPE.</li> </ul>	2	5	10	None identified
	103	Flammable and/or explosive atmosphere within silo leading to dust explosion or backdraft.	<ul style="list-style-type: none"> <li>Death.</li> <li>Burns.</li> <li>Scalds.</li> <li>Musculo-skeletal injuries.</li> <li>Noise induced hearing loss.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish and maintain cordons.</li> <li>Breathing apparatus procedures.</li> <li>Ventilation.</li> <li>No cutting into silos.</li> <li>Branches set to spray.</li> <li>Branches set to spray where dust suspected.</li> <li>Safety jet.</li> <li>Intrinsically safe equipment.</li> <li>Full firefighting PPE.</li> </ul>	2	5	10	None identified
<b>Industrial Premises</b>	104	Construction materials affected by fire i.e. dusts and fibres	<ul style="list-style-type: none"> <li>Contamination.</li> <li>Respiratory illness.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish and maintain cordon.s</li> <li>Decontamination procedures.</li> <li>BA procedures.</li> <li>Thermal Image Camera (TIC).</li> <li>P3 particulate masks.</li> <li>Full firefighting PPE.</li> <li>Damping.</li> <li>Tactical ventilation.</li> </ul>	2	4	8	None identified
	105	Dust explosion	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Impact injuries.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Ventilation.</li> <li>Branches set to spray where dust suspected.</li> <li>Safety jet.</li> </ul>	2	5	10	None identified


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			<ul style="list-style-type: none"> <li>Burns.</li> <li>Scalds.</li> <li>Noise induced hearing loss.</li> </ul>		<ul style="list-style-type: none"> <li>Intrinsically safe equipment.</li> <li>Breathing Apparatus procedures.</li> <li>P3 particulate masks.</li> <li>Full firefighting PPE.</li> </ul>					
	106	Hazardous Processes	<ul style="list-style-type: none"> <li>Death.</li> <li>Burns.</li> <li>Scalds.</li> <li>Respiratory injury.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>BA procedures.</li> <li>Establish and maintain cordons.</li> <li>Isolate where suitable.</li> <li>HMEPA.</li> <li>Hazmat procedures.</li> <li>Decontamination procedures.</li> <li>Full firefighting PPE.</li> <li>Seek specialist advice from competent person on/off site.</li> </ul>	2	5	10	None identified	
	107	Light insulated sandwich panels leading to undetected fire spread and structural collapse	<ul style="list-style-type: none"> <li>Death.</li> <li>Burns.</li> <li>Scalds.</li> <li>Crush / impact injuries.</li> <li>Musculo-skeletal injuries.</li> <li>Respiratory illness.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>TIC.</li> <li>Safety observer.</li> <li>BA Procedures.</li> <li>Evacuation procedure.</li> <li>P3 particulate masks.</li> <li>Full firefighting PPE.</li> </ul>	2	5	10	None identified	
	108	Machinery (hazardous processes)	<ul style="list-style-type: none"> <li>Death.</li> <li>Physical entrapment.</li> <li>Crush injuries.</li> <li>Musculo-skeletal injuries.</li> <li>Impact injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Isolation of utilities and machinery.</li> <li>Full firefighting PPE.</li> </ul>	2	5	10	None identified	

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	109	Plant / vehicle movement	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Entrapment.</li> <li>• Crush injuries.</li> <li>• Musculo-skeletal injuries.</li> <li>• Impact injuries.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Establish and maintain cordons.</li> <li>• Isolation.</li> <li>• Safety observer.</li> <li>• Full firefighting PPE.</li> </ul>	2	5	10	None identified
	110	Stored energy – Hydraulic leading to hydraulic injection/direct contact with skin	<ul style="list-style-type: none"> <li>• Amputation.</li> <li>• Potential carcinogenic.</li> <li>• Dermatological effects.</li> <li>• Skin irritation.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Isolation of source.</li> <li>• Full firefighting PPE.</li> </ul>	2	4	8	None identified
	111	Stored energy – Pneumatic	<ul style="list-style-type: none"> <li>• Musculo-skeletal injuries.</li> <li>• Noise induced hearing loss.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Isolation of source.</li> <li>• Hearing protection equipment.</li> <li>• Full firefighting PPE.</li> </ul>	2	4	8	None identified
	112	Wind Driven Fires	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Burns.</li> <li>• Scalds.</li> <li>• Musculo-skeletal injuries.</li> <li>• Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Establish and maintain cordons.</li> <li>• Safety observers.</li> <li>• BA procedures.</li> <li>• Communications.</li> <li>• Fire fighting jet.</li> <li>• Safety jet.</li> <li>• Tactical ventilation.</li> <li>• Full firefighting PPE.</li> <li>• Use of fire protection engineered solutions.</li> </ul>	2	5	10	None identified
<b>Radiation Involved</b>	113	Contamination – hazardous run-off or plume	<ul style="list-style-type: none"> <li>• Potential harm to food supply chain or drinking water supplies.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Limit water application.</li> <li>• Containment.</li> <li>• Plume modelling.</li> <li>• HMEPA advice.</li> </ul>	2	4	8	None identified

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					<ul style="list-style-type: none"> <li>Inform PHE</li> <li>Work with other agencies.</li> <li>Specialist advice for dilution guidance.</li> </ul>				
	114	Radiation contamination	<ul style="list-style-type: none"> <li>Potential permanent harm to unborn children or breast-feeding children.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Chemical protection clothing.</li> <li>Non deployment of breast-feeding women firefighters.</li> <li>Safe systems relating to expectant or breast feeding mothers.</li> </ul>	2	4	8	None identified
	115	Radiation contamination	<ul style="list-style-type: none"> <li>Physical contact with substance leading to potential radiation related illness.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Chemical protection clothing.</li> <li>Breathing Apparatus.</li> <li>Use of survey meter.</li> <li>Use of dosimeters.</li> <li>Dose limits / alarms and withdrawal procedure.</li> <li>Avoidance route.</li> <li>Upwind clean areas.</li> <li>HMEPA advice.</li> <li>DIM advisor and equipment.</li> <li>Decontamination procedures.</li> <li>Use of contamination meter.</li> <li>FRS post incident health surveillance.</li> <li>Specialist advice on decontamination.</li> </ul>	2	4	8	None identified
	116	Radiation contamination	<ul style="list-style-type: none"> <li>Potential radiation related illness and death.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Pre-rescue precautions – no open wounds.</li> <li>Breathing Apparatus procedures.</li> <li>Use of survey meter.</li> </ul>	2	4	8	None identified

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					<ul style="list-style-type: none"> <li>• Use of dosimeters.</li> <li>• General purpose gauntlets.</li> <li>• Avoidance route.</li> <li>• Limited exposure time.</li> <li>• Distance.</li> <li>• Available shielding.</li> <li>• Dose limits / alarms and withdrawal procedure.</li> <li>• Limited physical contact with casualty.</li> <li>• Use of contamination meter.</li> <li>• Decontamination procedures.</li> <li>• Bagging up procedures.</li> <li>• Post rescue hygiene precautions.</li> <li>• FRS post incident health surveillance.</li> <li>• HMEPA advice.</li> <li>• On site specialists (Radiation Protection Advisor [RPA] or Radiation Protection Supervisor [RPS]).</li> <li>• Off-site specialists (RADSAFE, NAIR).</li> </ul>				
<b>HAZMAT</b>	117	Contamination through contact with PPE or equipment	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Respiratory injury.</li> <li>• Burns.</li> <li>• Scalds.</li> <li>• Poisoning.</li> <li>• Ill health.</li> </ul>	• Operational Personnel.	<ul style="list-style-type: none"> <li>• Decontamination procedures.</li> <li>• Health Surveillance.</li> <li>• HMEPA.</li> </ul>	2	5	10	None identified


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	118	Cross contamination from humans/animals.	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Respiratory injury.</li> <li>• Disease.</li> <li>• Delayed ill health.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Incident Commander to establish 'Hazard Zone'.</li> <li>• Initial cordon based on information gathered at the scene.</li> <li>• Containment and segregation.</li> <li>• Minimise contact.</li> <li>• P3 particulate masks.</li> <li>• Breathing Apparatus procedures.</li> <li>• Chemical protection clothing (CPC).</li> <li>• Decontamination procedures.</li> <li>• Full firefighting PPE.</li> <li>• Hazardous Area Response Team (HART).</li> </ul>	2	5	10	None identified
	119	Difficulty in hearing safety messages due to wearing Chemical Protective Clothing (CPC)	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Respiratory injury.</li> <li>• Musculo-skeletal injuries.</li> <li>• Disease.</li> <li>• Delayed ill health.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Isolation of plant or machinery which may be contributing to noisy environment.</li> <li>• Cessation of other activities which may be contributing to noisy environment.</li> <li>• Use of hand signals.</li> <li>• The use of radio communications between wearers and entry control officer.</li> <li>• Use of written instructions.</li> </ul>	2	5	10	None identified


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	120	Exposure to airborne contaminants (gas, vapour, fumes, dust and fibres)	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Respiratory injury.</li> <li>• Ill health.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Approach incidents from upwind.</li> <li>• Receive information from Control regarding safe approach to incident.</li> <li>• Site specific risk information.</li> </ul>	2	5	10	None identified
	121	Exposure to contaminated firewater run off/decontamination water	<ul style="list-style-type: none"> <li>• Respiratory problems.</li> <li>• Burns.</li> <li>• Scalds.</li> <li>• Contamination.</li> <li>• Ill health.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Containment of decontamination water.</li> <li>• Establish &amp; maintain cordons.</li> <li>• HMEPA to advise on disposal.</li> <li>• HazMat documentation.</li> <li>• Post incident welfare.</li> <li>• Specialist advice on disposal of waste water.</li> </ul>	2	4	8	None identified
	122	Exposure to extremes of temperature whilst wearing Chemical Protective Clothing	<ul style="list-style-type: none"> <li>• Temperature related illnesses.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Limit duration of wear.</li> <li>• Relief crews.</li> <li>• Crews to be suitably hydrated.</li> <li>• Minimum amount of personnel to be used to carry out activity.</li> <li>• The use of radio communications by ECO to monitor wearers.</li> <li>• Provision of emergency crews.</li> <li>• Appropriate level of PPE to be worn as indicated by EAC/APP code.</li> </ul>	3	3	9	None identified

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	123	Exposure to Hazardous Materials (solid, liquid, gaseous, cryogenic, granular, powder, flammable or explosive)	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Respiratory injury.</li> <li>• Burns.</li> <li>• Scalds.</li> <li>• Poisoning.</li> <li>• Contamination.</li> <li>• Ill health.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Approach upwind/uphill.</li> <li>• Avoidance route.</li> <li>• Position appliances at the nominated initial generic cordon distance.</li> <li>• Appropriate level of PPE to be worn as indicated by EAC/APP code.</li> <li>• Minimum personnel in the Hazard Zone.</li> <li>• Establish and maintain inner cordon.</li> <li>• Keep exposure times within the risk area to a minimum.</li> <li>• Contact with hazardous material to be as low as reasonably practicable (ALARP).</li> <li>• Hazardous Material Environmental Protection Advisor (HMEPA).</li> <li>• Use of Chemet / Firemet.</li> <li>• Hazardous information markings.</li> <li>• HazMat reference materials.</li> <li>• Appropriate level of decontamination (Replacing: Emergency decontamination/ Decontamination procedures).</li> <li>• Police for outer cordon.</li> <li>• Seek specialist advice from competent person on/off site.</li> </ul>	2	5	10	None identified
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					<ul style="list-style-type: none"> <li>Gas monitoring equipment.</li> <li>HART.</li> </ul>				
	124	Ignition of flammable/explosive atmosphere	<ul style="list-style-type: none"> <li>Death.</li> <li>Blast injuries.</li> <li>Respiratory injuries.</li> <li>Burns.</li> <li>Scalds.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish &amp; maintain cordons.</li> <li>Eliminate ignition sources.</li> <li>Dispersal/containment jet.</li> <li>Safety jet.</li> <li>Appropriate level of PPE.</li> <li>P3 particulate masks to be worn as indicated by EAC/APP code.</li> <li>Gas monitor.</li> <li>HMEPA.</li> <li>Receive additional information from specialist advisor.</li> <li>Specialist advisor to isolate fuel source.</li> <li>On-site gas monitoring.</li> </ul>	2	5	10	None identified
	125	Projectiles due to explosion	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Impact injuries.</li> <li>Lacerations.</li> <li>Abrasions, cuts &amp; bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Initial cordon based on information gathered at the scene.</li> <li>Establish &amp; maintain cordons.</li> <li>Minimum personnel in the risk area.</li> <li>Minimum exposure time.</li> <li>Appropriate level of PPE to be worn as indicated by EAC/APP code.</li> </ul>	2	5	10	None identified
	126	Visual impairment	<ul style="list-style-type: none"> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Cessation of activities if vision is compromised.</li> <li>Use of demisting' spray and cloth to prevent visor misting up.</li> </ul>	2	4	8	None identified

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					<ul style="list-style-type: none"> <li>The use of radio communications between wearer and entry control officer.</li> <li>BA search procedures.</li> </ul>				
Rescues from Water	127	Biohazard- when entering water	<ul style="list-style-type: none"> <li>Infection.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Water PPE (relevant for CFOA Module 1).</li> <li>A minimum of CFOA Module 1 (Water Awareness Training).</li> <li>Establish and maintain cordons.</li> <li>Hazmat procedures.</li> <li>Hygiene procedures.</li> <li>Welfare procedures.</li> <li>Decontamination procedures.</li> <li>Full firefighting PPE.</li> <li>Post exposure reporting.</li> <li>Health surveillance.</li> </ul>	2	4	8	None identified
	128	Craft struck by obscured and hidden obstructions, surface water vessel movements and water borne debris	<ul style="list-style-type: none"> <li>Drowning.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Stop unwanted movement of vessels once crews have entered the water.</li> <li>Downstream safety &amp; upstream spotters in place and supervision of crews at all times. Giving particular attention to changes in water vessel movements and water borne debris.</li> <li>All Personnel operating the craft will be qualified to a minimum of CFOA Module 4 -Water Rescue Boat Operator.</li> <li>Water PPE (relevant for CFOA</li> </ul>	2	5	10	None identified


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					Module 4). • Lighting.				
	129	Entrapment by visible or obscured objects	<ul style="list-style-type: none"> <li>• Drowning.</li> <li>• Secondary drowning.</li> <li>• Temperature related illness/injury.</li> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts, bruises.</li> <li>• Fatigue.</li> </ul>	• Operational Personnel.	<ul style="list-style-type: none"> <li>• Downstream safety &amp; upstream spotters in place and supervision of crews at all times. Giving particular attention to changes in water vessel movements and water borne debris.</li> <li>• All Personnel entering the water will have received a minimum of CFOA Module 2 (Water First Responder Training).</li> <li>• Water PPE (relevant for CFOA Module 2).</li> <li>• All Personnel entering the water will have received a minimum of CFOA Module 3 (Water Rescue Technician Training).</li> <li>• Water PPE (relevant for CFOA Module 3).</li> <li>• Helmet light and chemical light sticks to be used when operating in poor lighting conditions.</li> <li>• Mobilisation of CFOA Module 4 water rescue capability.</li> </ul>	2	5	10	None identified
	130	Entrapment within unstable surface	<ul style="list-style-type: none"> <li>• Asphyxiation.</li> <li>• Temperature related illness/injury.</li> <li>• Abrasions, cuts, bruises.</li> </ul>	• Operational Personnel.	<ul style="list-style-type: none"> <li>• Minimum number of personnel deployed.</li> <li>• Appropriate use of work restraint equipment.</li> <li>• Water PPE (relevant for CFOA Module 1).</li> </ul>	2	5	10	None identified


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					<ul style="list-style-type: none"> <li>A minimum of CFOA Module 1 (Water Awareness Training).</li> </ul>				
	131	Exposure to extremes of temperature	<ul style="list-style-type: none"> <li>Temperature related illness/injury.</li> <li>Fatigue.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Minimum personnel to be in water for minimum period of time.</li> <li>Establish crew welfare arrangements as soon as practicable.</li> <li>Water PPE (relevant for CFOA Module 2/ Module 3).</li> <li>All personnel entering the water will have received a minimum of CFOA Module 2 (Water First Responder Training).</li> </ul>	3	3	9	None identified
	132	Falls in water due to obscured changes in water levels/flow and ground conditions.	<ul style="list-style-type: none"> <li>Drowning.</li> <li>Secondary drowning.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Downstream safety &amp; upstream spotters in place and supervision of crews at all times.</li> <li>All personnel entering the water will have received a minimum of CFOA Module 2 (Water First Responder Training).</li> <li>Water PPE (relevant for CFOA Module 2).</li> <li>Helmet light and chemical light sticks to be used when operating in poor lighting conditions.</li> <li>Mobilisation of CFOA Module 4 water rescue capability.</li> </ul>	2	5	10	None identified

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	133	Ground conditions causing slips trips and falls around and into water	<ul style="list-style-type: none"> <li>• Drowning.</li> <li>• Secondary drowning.</li> <li>• Hydrocution.</li> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts, bruises.</li> <li>• Hypothermia.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum number of personnel should work within 3 Metres (Risk Zone) of waters edge.</li> <li>• Safety observer to Cordon and monitor 3m distance.</li> <li>• Ensure adequate scene lighting.</li> <li>• Appropriate use of work restraint equipment.</li> <li>• A minimum of CFOA Module 1 (Water Awareness Training).</li> <li>• Water PPE (relevant for CFOA Module 1).</li> </ul>	2	5	10	None identified
	134	Manoeuvring craft or rescuing casualty from water into craft (person over board)	<ul style="list-style-type: none"> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum of 3 Boat Operators.</li> <li>• Correct use of manual handling techniques.</li> <li>• Personnel crewing boat to be CFOA Module 4 - Water Rescue Boat Operator trained.</li> <li>• Craft Manoeuvring training given to all Water Rescue Boat Operators including correct person overboard recovery techniques.</li> <li>• Water PPE (relevant for CFOA Module 4).</li> <li>• Helmet light and chemical light sticks to be used when operating in poor lighting conditions.</li> </ul>	2	4	8	None identified

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	135	Rapid uncontrolled rises in water levels and flow rates and/or catastrophic damage to the national infrastructure	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Drowning.</li> <li>• Impact injuries.</li> <li>• Musculo-skeletal.</li> <li>• Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide strategic advice from Met Office / Environment Agency and other agencies</li> <li>• Acting upon local flood plans.</li> <li>• CFOA Module 2 (Water First responder qualified).</li> <li>• CFOA Module 4 (water rescue boat operator qualified).</li> <li>• Mobilise water incident management qualified person (CFOA Module 5) for assessment purposes.</li> <li>• Water PPE (relevant for CFOA Module 4).</li> <li>• Helmet light and chemical light sticks to be used when operating in poor lighting conditions.</li> </ul>	2	5	10	None identified
	136	Struck by Water surface vessel movements and water borne debris	<ul style="list-style-type: none"> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts, bruises.</li> <li>• Drowning.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Stop unwanted movement of vessels once crews have entered the water.</li> <li>• Downstream safety &amp; upstream spotters in place and supervision of crews at all times. Giving particular attention to changes in water vessel movements and water borne debris.</li> <li>• All personnel entering the water will have received a minimum of CFOA Module 2 (Water First Responder Training).</li> <li>• Water PPE (relevant for CFOA</li> </ul>	2	5	10	None identified

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					Module 2). <ul style="list-style-type: none"> <li>• Helmet light and chemical light sticks to be used when operating in poor lighting conditions.</li> <li>• Mobilisation of CFOA Module 4 water rescue capability.</li> </ul>				
	137	Swallowing of water and physical assault	<ul style="list-style-type: none"> <li>• Drowning.</li> <li>• Secondary drowning.</li> <li>• Personal injury.</li> <li>• Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Physical contact should be avoided if casualty is non-compliant.</li> <li>• Mobilisation of a craft when carrying out non-compliant rescues appropriate to the Maritime Coastguard Agencies categorisation of water.</li> <li>• All personnel operating the craft will be qualified to a minimum of CFOA Module 4 - Water Rescue Boat Operator.</li> <li>• Water PPE (relevant for CFOA Module 4).</li> <li>• Helmet light and chemical light sticks to be used when operating in poor lighting conditions.</li> <li>• Health monitoring systems in place in conjunction with Occupational Health provider.</li> </ul>	2	5	10	None identified
	138	Inappropriate use of breathing apparatus equipment	<ul style="list-style-type: none"> <li>• Drowning.</li> <li>• Secondary drowning.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• ICS: An officer will be deployed to incidents of this nature in order to minimise risk to personnel at the scene.</li> </ul>	2	5	10	None identified


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<b>Persons Trapped - Vehicle</b>	139	Deployment of SRS whilst working in vehicle.	<ul style="list-style-type: none"> <li>Musculo-skeletal injuries.</li> <li>Impact injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Isolate power supply (battery).</li> <li>Limit access to minimum number of personnel in areas where undeployed airbags / tensioners may be located.</li> <li>Establish and maintain cordons.</li> <li>Full firefighting PPE.</li> <li>If available, fit securing harness over steering wheel.</li> </ul>	2	4	8	None identified
	140	Dust, Sharp metal objects & edges	<ul style="list-style-type: none"> <li>Respiratory injury.</li> <li>Impaired visibility.</li> <li>Eye injury.</li> <li>Skin irritation.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Soft &amp; hard protection used to cover exposed glass edges.</li> <li>P3 particulate masks.</li> <li>Use of water, sticky tape or cling film to reduce dust.</li> <li>Wind window down into door recess.</li> <li>Full fire fighting PPE.</li> </ul>	2	4	8	None identified
	141	Electric sparks, Fire & Explosion	<ul style="list-style-type: none"> <li>Electrocution.</li> <li>Electric shock.</li> <li>Burns.</li> <li>Musculo-skeletal injuries.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Where possible when isolating batteries unbolt connection rather than cut.</li> <li>Full fire fighting PPE.</li> </ul>	2	5	10	None identified
	142	Glass, Vehicle and /or body fluids on road surface	<ul style="list-style-type: none"> <li>Infection.</li> <li>Disease.</li> <li>Impact injury.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Soft &amp; hard protection used to cover exposed glass edges.</li> <li>Absorbent materials to be used on leaked fluids.</li> <li>Clay mats used to block drains etc.</li> <li>Full fire fighting PPE.</li> <li>Hi viz clothing.</li> </ul>	2	4	8	None identified


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	143	Ground Anchor pins striking pipes / Cables.	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Electrocution.</li> <li>• Electric shock.</li> <li>• Burns.</li> <li>• Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Pipeline and cable search completed using cable avoidance tool.</li> <li>• Establish and maintain cordons.</li> <li>• Full fire fighting PPE.</li> <li>• Hi viz clothing.</li> </ul>	2	5	10	None identified
	144	High Pressure air hose flailing.	<ul style="list-style-type: none"> <li>• Impact Injury.</li> <li>• Incision &amp; laceration.</li> <li>• Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum person in risk area.</li> <li>• Drain of tank / reservoir.</li> <li>• Isolation of air pressure system.</li> <li>• Full fire fighting PPE with helmet visors down.</li> </ul>	2	4	8	None identified
	145	High Pressure air leaking.	<ul style="list-style-type: none"> <li>• Impact injuries.</li> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts, bruises.</li> <li>• Noise Induced hearing loss.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Hearing protection.</li> <li>• Drain of tank / reservoir.</li> <li>• Isolation of air pressure system.</li> <li>• Full fire fighting PPE with helmet visor down.</li> </ul>	2	4	8	None identified
	146	Impact with vehicles passing risk area	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Crush.</li> <li>• Impact Injury.</li> <li>• Musculo-skeletal injuries.</li> <li>• Abrasions, cuts, bruises.</li> <li>• Noise Induced hearing loss.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Appliances parked in fend off position.</li> <li>• Dismount from vehicle opposite side from oncoming traffic, where possible.</li> <li>• Traffic cones set up and signs displayed.</li> <li>• Safety briefing for crew.</li> <li>• Vehicle, fixed &amp; portable lighting to illuminate scene of operations.</li> <li>• Safety observer to be appointed as soon as practicably possible</li> </ul>	2	5	10	None identified

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					<ul style="list-style-type: none"><li>to act as lookout.</li><li>Public escorted to safety.</li><li>Full fire fighting PPE to include Hi viz clothing.</li><li>Road signs or Police for road traffic control and or road closure.</li></ul>				
	147	Leaking fuels and oils including : <ul style="list-style-type: none"><li>Petrol</li><li>Diesel</li><li>Dual Fuels</li><li>Vehicle Oil</li><li>Hydraulic Oil</li></ul> Fire / Risk of Fire / Secondary Fires	<ul style="list-style-type: none"><li>Death.</li><li>Burns.</li><li>Scalds.</li><li>Musculo-skeletal injuries.</li><li>Abrasions, cuts, bruises.</li><li>Asphyxiation.</li><li>Personal contact leading to dermatological effects.</li><li>Environmental Damage.</li></ul>	<ul style="list-style-type: none"><li>Operational Personnel.</li></ul>	<ul style="list-style-type: none"><li>To cover risk area, charged &amp; tested.</li><li>Portable Fire fighting media positioned by hose reel.</li><li>Eliminate all ignition sources in risk area.</li><li>Consider BA.</li><li>Stop or prevent leakage.</li><li>Absorbent materials used on leaked fluid.</li><li>Clay mats to block drains.</li><li>Full fire fighting PPE.</li><li>Hi viz clothing.</li><li>Hose reel laid out.</li></ul>	2	5	10	None identified
	148	Manual handling	<ul style="list-style-type: none"><li>Musculo-skeletal injuries.</li><li>Impact injuries.</li><li>Crush injuries.</li><li>Abrasions, cuts, bruises.</li></ul>	<ul style="list-style-type: none"><li>Operational Personnel.</li></ul>	<ul style="list-style-type: none"><li>Space creation.</li><li>Follow principles of TILE when assessing manual handling task.</li><li>Full fire fighting PPE.</li><li>Hi viz clothing.</li></ul>	3	3	9	None identified
	149	Oil at High Pressure, Weight of Equipment &	<ul style="list-style-type: none"><li>Amputation.</li><li>High Pressure Oil Injection injury.</li></ul>	<ul style="list-style-type: none"><li>Operational Personnel.</li></ul>	<ul style="list-style-type: none"><li>Hearing protection.</li><li>Safety briefing for crew.</li><li>Rotation of hydraulic tool</li></ul>	2	4	8	None identified

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		Prolonged working in hostile and/or ergonomically challenging position.	<ul style="list-style-type: none"> <li>Noise.</li> <li>Heat Stress.</li> <li>Fatigue.</li> </ul>		<ul style="list-style-type: none"> <li>operators.</li> <li>Hydraulic power pack to be staffed at all times in use where resources permit.</li> <li>Full fire fighting PPE to include Hi viz clothing.</li> </ul>					
	150	Projectile if cut. Glass and sharp metal objects & edges	<ul style="list-style-type: none"> <li>Death.</li> <li>Lacerations.</li> <li>Abrasions, cuts &amp; bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>DRA by crews working in areas close to gas struts, tailgates and bonnets.</li> <li>Soft &amp; hard protection used to cover exposed glass edges.</li> <li>Limit access to where struts may be located.</li> <li>Full fire fighting PPE.</li> <li>Hi viz clothing.</li> <li>Vehicle SRS data to be provided to crews.</li> </ul>	2	5	10	None identified	
	151	Unplanned vehicle movement resulting in entrapment of Firefighters or deterioration of casualties injuries.	<ul style="list-style-type: none"> <li>Death.</li> <li>Crush injuries.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Establish and maintain cordons.</li> <li>Protective sheet placed over winch cable.</li> <li>Safety officer to monitor lifting.</li> <li>Limit access to minimum number of personnel in areas.</li> <li>Additional stability using blocks &amp; wedges, and other suitable stabilisation equipment.</li> <li>Full fire fighting PPE to include Hi viz clothing.</li> </ul>	2	5	10	None identified	

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	152	Vehicle seat movement.	<ul style="list-style-type: none"> <li>Crush injuries.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Safety briefing for crew.</li> <li>Readjust seat position and isolate.</li> <li>Full fire fighting PPE.</li> </ul>	2	4	8	None identified
<b>Wildfires</b>	153	Discarded cylinders and aerosols involved in fire	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Impact injuries.</li> <li>Burns.</li> <li>Scalds.</li> <li>Noise induced hearing loss.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Liaise with the relevant MOD personnel and wardens/rangers.</li> </ul>	2	5	10	None identified
	154	Electricity: Overhead lines/ substations/ other installations.	<ul style="list-style-type: none"> <li>Electrocution.</li> <li>Electric shock.</li> <li>Burns.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Identify presence of overhead power lines.</li> <li>Liaison with relevant electricity company.</li> <li>Identification of all known electrical hazards via MDT's.</li> <li>Clear and designated access routes.</li> <li>Establish and maintain cordons (10 metre corridor either side of power lines).</li> <li>Safety observers.</li> <li>Restriction of use of water/foam jets in risk areas.</li> <li>Isolation and earthing of source by supplier.</li> <li>Specialist advice.</li> </ul>	2	5	10	None identified


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Description of activity / item being assessed	<b>Rapid Intervention Vehicle Mobilising Procedures – Porlock and Princetown</b>			

	155	Flying debris/dust.	<ul style="list-style-type: none"> <li>Respiratory illness.</li> <li>Eye injuries.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Use of eye protection (helmet visor/goggles).</li> <li>P3 particulate masks.</li> <li>Close supervision/monitoring of personnel.</li> </ul>	3	3	9	None identified
	156	Helicopters Contact with moving rotors Struck by debris flying around due to down draught from rotors	<ul style="list-style-type: none"> <li>Death.</li> <li>Impact injury.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Use of eye protection - helmet visor/goggles.</li> <li>Access and egress should be from downhill.</li> <li>Safe approach from the front at 45 degrees, opposite side to the tail rotor, keeping as low as possible to avoid the main rotor.</li> <li>Full firefighting PPE.</li> </ul>	2	5	10	None identified
	157	Off road vehicles traversing rough terrain.	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Entrapment injuries.</li> <li>Abrasions, cuts &amp; bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Driver training.</li> <li>Site assessment.</li> <li>Safety observer.</li> </ul>	2	5	10	None identified
	158	Pipelines.  Risk of explosion leak/spillage of product.	<ul style="list-style-type: none"> <li>Death.</li> <li>Overcome by fumes.</li> <li>Burns.</li> <li>Scalds.</li> <li>Blast injuries.</li> <li>Respiratory injuries.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Refer to MDT for pipeline location and SOP.</li> <li>Attendance of specialist personnel from pipeline operator.</li> <li>Use of gas detector.</li> <li>Full firefighting PPE</li> </ul>	2	5	10	None identified


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Description of activity / item being assessed		<b>Rapid Intervention Vehicle Mobilising Procedures – Porlock and Princetown</b>	


	159	Topography – Access / Egress. Risk of entrapment.	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Cuts and abrasions.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>All safety briefings to be based on the LACES protocol i.e. Lookouts, Awareness, Communications, Escape.</li> <li>Personnel must maintain at least two escape routes to an agreed safety zone.</li> </ul>	2	5	10	None identified
	160	Unexploded ordnance on army ranges	<ul style="list-style-type: none"> <li>Death.</li> <li>Musculo-skeletal injuries.</li> <li>Impact injuries.</li> <li>Burns.</li> <li>Scalds.</li> <li>Noise induced hearing loss.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Liaise with the relevant MOD personnel and wardens/rangers.</li> </ul>	2	5	10	None identified
	161	Use of non-service personnel and equipment.	<ul style="list-style-type: none"> <li>Death.</li> <li>Crush injuries.</li> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Close supervision/ monitoring of personnel.</li> <li>Clear identification i.e. tabard, ID card within the ICS structure.</li> </ul>	2	5	10	None identified
<b>Civil Disturbance</b>	162	Environmental conditions affecting visibility	<ul style="list-style-type: none"> <li>Musculo-skeletal injuries.</li> <li>Abrasions, cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Provision of full firefighting PPE.</li> <li>Hand lamp.</li> <li>Agreed routes and RVP location.</li> <li>Use of 'on site' other agencies resources.</li> <li>Police are to provide assistance / support if violent and confrontational conditions are identified or are likely to be</li> </ul>	2	3	6	None identified

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					<ul style="list-style-type: none"> <li>expected.</li> <li>Area cordon.</li> <li>Use of Media coverage for assessment purposes.</li> <li>Use of media messages to request cooperation for firefighting.</li> </ul>				
	163	Explosion.	<ul style="list-style-type: none"> <li>Death.</li> <li>Burns.</li> <li>Scalds.</li> <li>Musculo-skeletal injuries.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Compliance with the FRS lone working policy/risk assessment.</li> <li>Provision of full fire fighting PPE.</li> <li>Identify hazard zone.</li> <li>Tactical withdrawal.</li> <li>Police are to provide assistance / support if violent and confrontational conditions are identified or are likely to be expected.</li> <li>Area cordon.</li> </ul>	2	5	10	None identified
	164	Fire	<ul style="list-style-type: none"> <li>Death.</li> <li>Burns.</li> <li>Scalds.</li> <li>Physiological stress.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Compliance with the FRS lone working policy/risk assessment.</li> <li>Provision of full fire fighting PPE.</li> <li>Identify hazard zone.</li> <li>Tactical withdrawal.</li> <li>Use of 'on site' other agencies resources.</li> <li>Police are to provide assistance / support if violent and confrontational conditions are identified or are likely to be expected.</li> </ul>	2	5	10	None identified

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					<ul style="list-style-type: none"> <li>Area cordon.</li> <li>Use of CCTV.</li> <li>Use of media coverage for assessment purposes.</li> <li>Use of media messages to request cooperation for firefighting.</li> </ul>				
	165	Ignitable Liquids	<ul style="list-style-type: none"> <li>Death.</li> <li>Burns.</li> <li>Scalds</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Compliance with the FRS lone working.</li> <li>Provision of full fire fighting PPE.</li> <li>Identifying hazard zone.</li> <li>Response to be made to recognised rendezvous point [RVP].</li> <li>Police are to provide assistance / support if violent and confrontational conditions are identified or are likely to be expected.</li> <li>Area cordon.</li> </ul>	2	5	10	None identified
	166	Intimidation/ Violence from members of public/affected person(s).	<ul style="list-style-type: none"> <li>Personal injuries.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>Compliance with the FRS Lone Working and Violence and aggression Policy/Risk Assessment.</li> <li>Provision of full fire fighting PPE.</li> <li>Hi viz clothing.</li> <li>Identify hazard zone.</li> <li>Work in pairs.</li> <li>Driver to remain in cab with engine running.</li> </ul>	2	3	6	None identified

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					<ul style="list-style-type: none"> <li>• Work from LPP/Hydrant instead of main pump.</li> <li>• Plan access and egress.</li> <li>• Safety lookouts.</li> <li>• Liaison with the local agency representative.</li> <li>• Use of 'on site' other agencies resources.</li> <li>• Police are to provide assistance / support if violent and confrontational conditions are identified or are likely to be expected.</li> <li>• Area cordon.</li> <li>• Use of CCTV.</li> <li>• Use of Media coverage for assessment purposes.</li> <li>• Use of media messages to request cooperation for firefighting.</li> </ul>				
	167	Isolated, trapped, ambush or effected by escalating incident or site conditions.	<ul style="list-style-type: none"> <li>• Death.</li> <li>• Personal Injuries.</li> </ul>	<ul style="list-style-type: none"> <li>• Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>• Compliance with the FRS lone working policy/risk assessment.</li> <li>• Provision of full firefighting PPE.</li> <li>• Hi viz clothing.</li> <li>• Response to be made to recognised rendezvous point [RVP].</li> <li>• Safe route approach to be identified and used.</li> <li>• Liaison with other agency</li> </ul>	2	5	10	None identified


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					personnel. • Contact and advice made with Police.				
	168	Non monitored incident related activities	• Death. • Musculo-skeletal injuries. • Impact injuries. • Crush injuries. • Abrasions, cuts, bruises.	• Operational Personnel.	• Compliance with the FRS lone working policy/risk assessment. • Provision of full firefighting PPE. • Hi viz clothing. • Response to be made to recognised rendezvous point [RVP]. • Safe route approach to be identified and used. • Liaison with other agency personnel. • Contact and advice made with Police.	2	5	10	None identified
	169	Unnecessary/ Inappropriate Blue light response	• Death. • Musculo-skeletal injuries. • Abrasions, cuts, bruises. • Escalation of incident.	• Operational Personnel.	• ICS Level 2 to brief control prior to mobilising additional resources that non blue light response required.	2	5	10	None identified
<b>Generic risks</b>	170	Noise	• Noise induced hearing loss.	• Operational Personnel.	• See generic control measures. • Safety signs.	2	3	6	None identified
	171	Manual handling	• Musculo-skeletal injuries.	• Operational Personnel.	• See generic control measures. • Use of T.I.L.E. methodology.	3	3	9	None identified
	172	Vibration	• Hand arm vibration syndrome.	• Operational Personnel.	• See generic control measures. • Safety signs.	2	3	6	None identified
	173	Working at height	• Musculo-skeletal	• Operational	• See generic control measures.	2	5	10	None

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			<ul style="list-style-type: none"> <li>injuries.</li> <li>Death.</li> </ul>	Personnel.	<ul style="list-style-type: none"> <li>Fall restraint / arrest devices.</li> <li>Work platforms.</li> </ul>				identified
	174	Slips, trips, falls.	<ul style="list-style-type: none"> <li>Musculo-skeletal injuries.</li> <li>Cuts, bruises.</li> </ul>	<ul style="list-style-type: none"> <li>Operational Personnel.</li> </ul>	<ul style="list-style-type: none"> <li>See generic control measures.</li> <li>Provision of suitable lighting.</li> <li>Marking of safe routes.</li> <li>Cordons.</li> <li>Barriers.</li> </ul>	3	3	9	None identified
	175	Use of defective equipment	<ul style="list-style-type: none"> <li>Musculo-skeletal Injury.</li> <li>Impact injury.</li> <li>Entrapment.</li> <li>Crush injury.</li> <li>Death.</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li>See generic control measures.</li> <li>Pre-use checks of equipment.</li> <li>Defect reporting system.</li> <li>Impounding of defective equipment.</li> </ul>	2	4	8	None identified
	176	Adverse weather	<ul style="list-style-type: none"> <li>Heat illness.</li> <li>Cold weather injury.</li> <li>Hypothermia.</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li>See generic control measures.</li> <li>Welfare arrangements.</li> <li>Rotation of crews.</li> <li>Suitable PPE.</li> <li>Sun screen.</li> </ul>	3	3	9	None identified
	177	Driving Service Vehicles	<ul style="list-style-type: none"> <li>Musculo-skeletal injury.</li> <li>Impact injuries.</li> <li>Crush injuries.</li> <li>Death.</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li>Driving licence checks.</li> <li>Driver training.</li> <li>Communications.</li> <li>Break down procedures.</li> <li>Vehicle inspection regimes.</li> <li>Vehicle defect reporting system.</li> </ul>	2	5	10	None identified

Below are the additional assessments which may be required by virtue of Service Policy Documents and Statutory Regulations. Strike ~~(strike)~~ through those that are not required to support this assessment.

Lone working	Noise at Work (RA6)	Manual handling (RA5)	PPE	COSHH (RA12)	Work Equipment (RA3)	Vibration (RA8)
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Fire Risk Assessment (PAS79)	H & S Workplace Assessment – Stations & Other Premises (RA9)	Operational Training / Events (RA7)	<del>Assessment of Public Events – attendance by service vehicles etc (RA7a)</del>	<del>Community use of service premises (RA9a)</del>	<del>Use of Service premises for Social or Fund Raising events (RA9b)</del>	Other (Please state below)

Haz No	Additional Controls	L	S	Revised Risk Rating	Person Responsible for Remedial Action	Date Person Advised	Time Scale	Date Completed
	None identified							

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LIKELIHOOD	SEVERITY (Injury)				
	Very High (Fatal) 5	High (Major) 4	Moderate (Serious) 3	Minor 2	Negligible 1
Very Likely 5	25	20	15	10	5
Likely 4	20	16	12	8	4
Quite Possible 3	15	12	9	6	3
Possible 2	10	8	6	4	2
Not Likely 1	5	4	3	2	1


RATING CRITERIA			
Risk Rating	Type of Action	Control Measures	Priority
20 – 25	<b>STOP ACTIVITY</b>	Change Process/Task	Immediate
16 – 19	Warnings/Instructions	Must Introduce	Very High
12 – 15	Consider Safety Measures	Introduce	High
6 – 11	Make Personnel Aware	Add if Possible	Moderate
4 – 5	Monitor & Review	Consider if Appropriate	Low

### Guidance on Likelihood and Severity

Likelihood of Occurrence		
Not Likely	1	There is no risk at present. Only under freak conditions could there be any possibility of an accident or illness. All reasonable precautions appear to have been taken. This should be the normal state of the workplace.
Possible	2	If other contributing factors become present an accident or illness might occur, but the probability is low and the risk is minimal (e.g. chipped glass window, slightly worn steps).
Quite Possible	3	An accident may happen if significant additional factors precipitate it, but it is unlikely to happen without them. The additional factor is more than a casual slip and a nudge and would require an additional action or event to trigger it (e.g. leaving a vehicle with engine running, obstructing an aisle causing a trip hazard).
Likely	4	An accident is "likely" to happen if significant additional factors precipitate it i.e. wind, human carelessness etc. but which is unlikely to happen without this additional factor (e.g. ladder not secured, pile of tubes with temporary or makeshift wedge, temporary electrical hook-up to live supply).
Very Likely	5	If the work continues as it is, there is almost 100% certainty that an accident will happen (e.g. broken stair or broken round on a ladder, exposed electrical conductor, tall stack of heavy articles poorly supported).

Severity of Risk		
Negligible	1	Negligible risk of injury, disease, or financial loss/damage
Minor	2	Minor injury which would allow the individual to continue work after First aid treatment. The duration of the stoppage or treatment is such that the normal flow of work is not seriously interrupted. No adverse media coverage. Minimal financial loss or damage.
Moderate (Serious)	3	Causing moderate injury or disease capable of keeping an individual off work for four days or more (RIDDOR reportable). Potential for moderate financial loss (from damage to equipment/litigation etc). Adverse media coverage. Moderate business interruption.
High (Major)	4	Causing serious injury to an individual that is "notifiable". Significant potential for financial loss, disruption to Organisation. Potential for litigation/prosecution by failure to significantly conform to statutory duties. Adverse media coverage. Potential prosecution.
Very High (Fatality)	5	Causing single or multiple deaths and/or severe disruption to the Organisation. Potential for extreme financial loss. Adverse national media coverage. Significant litigation cost potential. Potential prosecution of Organisation/individuals.

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Ref Code: (H & S Dept)		<b>RA2 Risk Assessment</b>	 <b>DEVON &amp; SOMERSET</b> FIRE & RESCUE SERVICE
Description of activity / item being assessed		<b>RAPID INTERVENTION UNITS</b> <b>TRAINING EVENTS AND OPERATIONAL INCIDENTS</b>	