



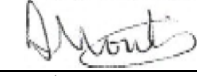

# Risk Assessment & Method Statement – Working on a Windfarm (onshore)

Document Number: AT RAM 005  
Issue Date: 04/02/2022  
Review Date: 03/02/2025

Revision: 1  
Complied by: Alex Mountain  
Reviewed/Authorised by: Peter King

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Purpose:	This document details the method by which working on a windfarm is carried out. The document lists; steps carried out and documents/procedures/regulations followed. A risk assessment of the task is found in Appendix A.		
Summary of Changes	Rev 0	18/02/20	First Issue
	Rev 1	29/03/21	Detailed on emergency evacuation
	Rev 2	04/02/22	Reviewed Risk Ratings

Complied by:	Alex Mountain	04/02/22	
Authorised by:	Peter King	04/02/22	

## 1.Task Description/Sequence of the works

Daily sequence of works when operating on a windfarm. A windfarm may be referred to a "Site" from here on in.

### Driving

1. Locate primary entrance to windfarm for access.
2. Be aware of and drive according to site rules refer to Job Specific Summary for speed limit details.
3. When attending the site office park vehicles at designated locations adhering to any signed information. For example, reverse parking.
4. When driving to a turbine use site established road or track.
5. Take note of any site guidance signs on hazards such as animals or members of the public with access when driving to locations on site.

### Induction Day

1. Prior to accessing a windfarm refer to summary detail and ensure permission has been granted to access site.
2. Access site adhering to site specific information.
3. Locate main site office / substation and contact site personnel.
4. Complete induction process, ensuring awareness of emergency procedures and site contacts.
5. Establish day to day protocol for attending/leaving site and daily site contact for the works.
6. Confirm work locations and scope according to documentation provided which should include the following:
  - Job Specific Summary
  - Relevant RAMS for work to be carried out
  - Schedule of works
  - COSHH (If applicable)
7. Confirm kit and equipment manifests are accurate. Recharge any necessary equipment if not already charged.

### Working Day

8. Prior to work commencing a pre-work brief is to be carried out by team leader with the site contact reaffirming specifics of works.
9. A daily tool box talk/prestart brief is carried out by team leader and briefed to team members.
10. Radio and equipment checks are carried out.
11. Works party will move to relevant wind turbine to start works, adhering to site specific information.
12. Do not enter a Turbine while in Operation or Run/Start state, always confirm that the Turbine has been remotely stopped and is safe to enter
13. Works party will determine access method to Nacelle by way of turbine specific manlift or ascending ladder meanwhile adhering to manufactures guidance on operation or use for each method.
14. Nacelle turbine isolations to applied by an TWSA Authorised Technician in accordance with the correct AWP and Turbine Isolation RAMS.
15. Equipment lifted to the nacelle (if required) in accordance with site procedures. Lifting operations are carried out using certified lifting bags provided by AccessTec and as per slinger/banksman training.
16. If the turbine is in an acceptable condition to work on AccessTec will set up and begin operations.

17. Once operations have concluded all equipment will be removed from the Nacelle. Unless communicated to and authorised by site operations.
18. Equipment lowered from the nacelle (if required) in accordance with site procedures. Lifting operations are carried out using certified lifting bags provided by AccessTec and as per slinger/banksman training.
19. Authorised Technician to return the WTG to service pursuant to Turbine Isolation RAMS, relevant AWP and communicate the same to site operations.
20. Works party to return to site office / substation following site specific information for end of day de-brief.
21. Works party to exit site communicating the same to site operations if required.

### Documentation

1. Ensure all documentation is complete and all members of the team have read, understood and signed relevant method statement and risk assessment.
2. Complete rescue plans, daily tool box talks and point of work risk assessments. Ensure all team members are aware of where to locate the documents.
3. Ensure any site specific and AWP documents are available and completed accurately.
4. Establish within the team how to report the information required for the daily progress report and confirm who is responsible for communication to all relevant parties.
5. Report any safety observations using the agreed method refer to RAMS summary document

### Demobilisation

1. Ensure all work tools, equipment, documents and waste are removed from the work site and packed correctly ready for transport/disposal.
2. If equipment is left onsite awaiting collection ensure it is packed properly and stored in a safe, agreed location and is secured and labelled correctly for collection by a courier. Where possible ensure any documents included in the package are available in an electronic format.
3. If any equipment/tools are stored in a vehicle, complete a thorough check prior to leaving site to ensure all equipment is present and accounted for and safely stored for transit.
4. Dispose of any waste according to agreed method refer to site summary.
5. Hand back any equipment/keys site have allocated to allow work to be completed. Where possible obtain written confirmation, the property has been returned.
6. Final check & communicate to site contact when leaving the site.

2. Plant and Equipment	
<b>Power Tools</b>	<b>Hand tools</b>
N/A	N/A

3. Personal Protective Equipment (PPE)
Equipment and PPE to access a wind turbine:
- Petzl full body harness EN361, EN358, EN813

- Climbing helmet EN397
- Fall arrest device (turbine specific EN353)
- Twin fall arrest lanyards EN355, ANSI Z359.13 12 feet, ANSI Z359.12
- Add work positioner EN358

Rescue equipment refer to RAMS summary document for detail;

#### **Site Mandatory PPE**

Boots

Safety Glasses/Goggles

Gloves

Harness

Helmet

All PPE equipment used is inspected by a competent person every 6 months as per LOLER. Equipment manifest/inspection record supplied.

#### 4. Hazardous Substances

Grease and oil spills may be present on turbines.

#### 5. Simultaneous Operations

The contractor must not permit any other contractor to work above technicians unless otherwise pre-organised prior to job commencement.

#### 6. Technical Content of Job (SSOW)

All RAMS must be reviewed by the customer prior to deployment – any points requiring clarification will be addressed prior to the work commencing.

Work carried out in accordance with:

- LOLER 1998
- PUWER 1999
- Work at height regulation 2005
- HASAWA 1974
- OEM Work Instructions

#### 7. Safety Risk Assessment

AccessTec's employee risk assessment for the work is detailed in Appendix A. This details the hazards identified by AccessTec for its employees, that are relevant to this task and includes details of how the hazards are to be minimised/managed. The supervisor must ensure that all personnel involved in the work are aware of the possible dangers and precautions they must take to ensure that the identified risk is minimised.

The main risks that have been identified for the elements of work covered by the method statement are listed below together with relevant mitigation measures.

**Working at Height:** The principle hazard associated with this activity is falling. All work to be carried out using principles laid out in the Working at Height Regulations 2005 and AccessTec Safe Working & Operating procedure. Establish exclusion zone and secure tools and equipment that could be dropped from height.

**Weather:**

The weather forecast that is to be used for the site in question will be agreed prior to work commencing. It is important that all parties involved in the task understand who has been nominated to check and monitor any risk from the weather. The nominated person could be; lead technician on site, site lead, AccessTec PM/PSO support and or client representative.

- **Wind**

The table below shows the maximum safe working wind speeds for the areas of the WTG that technicians will perform works in. The values below are 10-minute average wind speeds.

WTG Location	Spinner, Blade and Tower	Internal Nacelle	Internal Hub / Blade	Internal Tower	Craning Operations
Maximum average wind speed	TBC on site and recorded in AT RAM 006 summary document				

The work party may suspend works at lower wind speeds if they feel conditions compromise their safety at any point.

- **Gusting Wind Speeds**

Postponement or suspension of work should occur if any regular, repeated gusting in excess of 25% of the maximum average wind speed occurs or if the team deem the gusting conditions compromise the safety of the task.

- **Visibility**

Without continuous visibility between the nacelle and ground / sea level or vice-versa external rope access works must be postponed or suspended until the correct conditions are assured.

- **Precipitation (rain, snow, hail etc...)**

Precipitation should only be considered a safety concern for external works if:

- o Adequate clothing for the conditions has not been provided.
- o Electrical equipment is being used for the task.
- o The precipitation contributes to the deterioration of visibility to below safe values stated above.
- o The precipitation contributes to the deterioration of general safety.

If any of these criteria are met, then works should be postponed or suspended until a suitable safe solution can be arranged or conditions improve.

- **High Temperatures**

Due to the physical nature of working within a wind turbine, when working in high temperatures ensure adequate rest breaks and hydration of the team.

Adequate skin protection should be provided and used to prevent over exposure to the sun.

During periods of high temperatures, the teams should be regularly briefed on the hazards of working in extreme heat, including the symptoms and treatment of heat exhaustion.

Regular buddy checks to be performed while working to ensure the wellbeing of the work party.

- **Cold Temperatures**

Suitable cold weather clothing should be provided and worn.

During periods of low temperatures, the teams should be regularly briefed on the hazards of working in extreme cold including the symptoms and treatment of hypothermia.

Regular buddy checks to be performed while working to ensure the wellbeing of the work party.

- **Lightning storm procedure.**

Before work starts, the local weather forecast will be checked. The forecast will determine whether the risk is:

**Green:** Low risk, no action required.

**Amber:** Medium risk, lightning should be monitored throughout the day by designated support staff

**Red:** High risk, technicians should move to the predefined safe area and await all clear from operations. No works are to take place until prediction returns to low risk and no strikes have been observed within 50 miles in the past hour. Monitoring is to take place for the remainder of the day.

System of monitoring lightning risk:

- Nominated person to check the agreed forecast.
- If a medium risk is identified, the designated person (identified on the project specific RAMS) will monitor any activity using [blitzortungLive](#) either on a laptop or a mobile phone. As a minimum, data should be checked half hourly.
- If a high risk is identified follow the evacuation order (see next page).
- Single team working on a remote site (no site support)- A portable lightning detector will be carried by each team.

If a strike occurs within 35 miles of the work party issue an immediate evacuation order to all rope access teams.

If the strike is between 35-50 miles from the work party, ascertain direction the storm is travelling. Once this is known and the location of the work team is within 180 degrees of the direction of the storm issue an immediate evacuation order to all teams.

If the storm is travelling 180 degrees away from the work party issue a readiness warning to all teams and continue to monitor closely for a minimum of 1 hour after lightning has left a 50 mile radius of the work location.

Evacuation Procedure if Lightning is Seen or Heard.

**All Clear** – Normal work can resume.

**Wait in Safe zone** – Team to remain in safe zone until further instruction or all clear given.

**Return to base** – Team to immediately return to substation or base location.

Do not de-rig, remove isolations or crane equipment until the all clear is given or express permission is given by the site lead, support staff or Blade Team Supervisor to do so.

8. Safety Content	
<ul style="list-style-type: none"> <li>• Should a permit to work be required please obtain from customer office prior to starting work.</li> <li>• All members of the working party are to be briefed and <u>must</u> have signed the Risk Assessment, method statement, toolbox talk form and rescue plan (if necessary).</li> <li>• Access work site via agreed route(s).</li> <li>• Adhere to site and local inductions, use company best safe working practices and refer to customer for any restrictions.</li> <li>• Be mindful of surroundings, if the job changes stop the job and reassess the impact on your works.</li> <li>• Supervisor to communicate emergency plan and ensure everyone is aware of the plan.</li> <li>• Ensure good house-keeping is maintained.</li> <li>• Sign off plant when leaving area and return permit to customer permit office.</li> </ul> <p><b>If in any doubt liaise with client representative</b></p>	
Emergency	<p>Refer to RAMS summary document</p> <p>All team members to have knowledge of wind turbine “safe area” in the event of lightning.</p> <p>All team members must familiarise themselves with the wind turbine evacuation procedure as well as the location of firefighting equipment.</p> <p>All team members must sign the tool box talk to indicate that they understand what their role will be in the event of an emergency.</p>
First Aid	<p>A first aid kit will always be available. All injuries and near misses, regardless of how minor is to be reported to customer and the AccessTec project manager.</p>
Emergency Evacuation from Nacelle/Hub	<p>Prior to work, the emergency evacuation procedure from the nacelle/hub is reviewed.</p> <p>The location of rescue equipment is identified in the summary RAMS document (ATRAM 006). If rescue equipment is not present on the turbine, AccessTec will provide it and take it up to the nacelle for the duration of the works.</p> <p>If the specific rescue from the nacelle and hub is difficult (taking into account team member numbers), mock rescues may be carried out to familiarise technicians with equipment and the procedure.</p> <p>If it is deemed that additional team members are required to facilitate a rescue, resources will be allocated.</p> <p>All technicians will hold GWO work at height a s a minimum</p>

9. Environmental Risk Assessment of Work			
Impact on the Environment	Y/N	Mechanism of Release – accidental spillage of fuel oil, waste not being contained, excavation - dust generation	Control Measures – bunds, skips.
Will the project generate waste? If yes then how will the waste be generated and disposed of?	N		
Is diesel / Oil / Grease being brought on site. If yes state quantity of fuel oil and method of storage.	N		
Are chemicals and other harmful materials being used during the project? If yes, how will they be contained or stored.	N		
Will the project create any emissions (dust or fume) to the atmosphere (air)? If yes, how will the emissions be produced & controlled.	N		
Will the project create any effluent? If yes, what effluent will be generated and how will it be disposed of?	N		
Is there a potential for noise to be generated from the project. If yes, how will it be assessed & managed.	N		
Is there a potential for the project to create an odour. If yes, how will it be assessed and managed?	N		



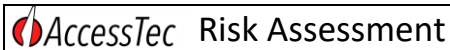
## Appendix A – Risk Assessment

# AccessTec Risk Assessment

Task:	Working on a Wind Turbine	Initial assessment Date:	18/02/20	Rev:	2	AT RAM 005
Location:	Onshore	Date of last review:	04/02/22			
Author:	Alex Mountain	Date of next review	03/02/22	Designation:		
Activities	Hazards	Initial risk rate Likelihood x Severity =	Safety Controls	Residual risk rate Likelihood x Severity =	Y/N	Action required Remarks

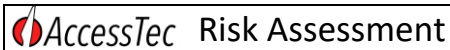
## HAZARD CATEGORY – WHAT MIGHT GO WRONG

	Member of public	Operatives	Other		Member of public	Operatives	Other		Members of public	Operatives	Other
1		✓		17	Exposure to vibration *				<b>Other Hazards</b>		
2		✓		18	Repetitive motion / action			34	Risk of Service Strike – OHL & U/G		
3		✓		19	Collision – moving objects/vehicles		✓	35	Trapped / Crushed body parts		
4		✓		20	Fire / flammable Atmosphere		✓	36	Confined Spaces		
5	✓	✓		21	Explosion			37	Access / Egress		
6				22	Drowning			38	Struck / trapped by Vehicles/Mobile Plant Movements		
7				23	Asphyxiation			39	Stuck by Winch Bond		
8				24	Loss of containment – liquid/gas			40	Exposure at sea		
9		✓		25	Adverse weather		✓	41	Extreme working over water		
10		✓		26	Sharp objects			42	Travel to WTG		
11				27	Radiation *			43			
12		✓		29	Exposure to fumes / dust			<b>Other Considerations</b>			
13				30	Young persons			1	Pregnant women		
14		✓		31	New or expectant mothers			2	Waste products		
15		✓		32	Environmental threat			3	Lone workers		
16		✓		33	Asbestos *			4			



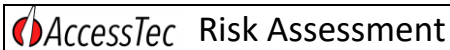
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Driving around client's site accessing Turbines.	Damage to vehicles and personnel. Company reputation.	3x3 9 (Medium)	Drive vehicles in accordance with country legislation and site rules. AccessTec driving policy to be adhered to. Driver licence to be valid for vehicle being driven. Adhere to site driving rules and regulations.* Do not operate hand held devices while driving Vehicle serviced as per manufacturers guidelines. Perform weekly vehicle checks for visual defects. Drug and alcohol policy to be adhered to.	2x3 6 (Low)	N	
Housekeeping	Slips/Trips/Falls	3x3 9 (Medium)	Worksite and access routes to be kept clear of any material as often as is practical with consideration given to removal. Suitable disposal areas to be identified and utilised for differing waste material. All waste material to be removed from Turbine and taken back to Office for disposal in appropriate containers. Technicians to be briefed at Tool Box Talks.	2x3 6 (Low)	N	
Working on site (all activities)	Fire in the vicinity of the work being carried out	3x4 12 (Medium)	Team members to be briefed on site emergency procedures in client induction prior to commencement of work. See Job Method Statement. Fire extinguishers in turbines/work vans Technicians to hold GWO fire awareness	1x4 4 (Low)	N	
Working on site (all activities)	Injury as a result of Fatigue/Tiredness (Human Factors)	3x4 12 (Medium)	Take regular breaks and carry out buddy checks.	1x4 4 (Low)	N	



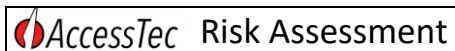
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Working on a windfarm (general)	Hunting, stalking onsite-fatality or serious injury	2x4 8 (Medium)	Site owners must inform all parties when hunting, stalking activities are arranged. Personnel shall not access the site during the notified period. Contact site management if gun shots are heard, Do Not Leave WTG until safe to do so.	1x4 4 (Low)	N	
Working on a windfarm (general)	Site Terrain Conditions - Slips, trips and fall injuries Soft ground conditions, loose surface	3x3 9 (Medium)	Ensure suitable footwear for site ground conditions. Access to terrain around tower base to be assessed and may require walk boards or bog mats. Site inductions /familiarisation.	1x3 3 (Low)	N	
Working on a windfarm (general)	Livestock / wildlife- Disease, bites, impact injuries, environmental issues	2x2 4 (Low)	Do not touch or assist injured or ill animals. Do not approach or corner animals. Report observation to site management. Ensure good personal hygiene is maintained and use disposable gloves as required. Report fouling of hand rails, access route and steps to site management. Do not approach or pick up snakes or protected species. Insect repellent available, self-checks for bites. Arrange control of animals with site owners when major jobs are being planned. Leave site gates as they are found.	1x2 2 (Low)	N	
Working in exposed locations	Wind Conditions / Fatigue	3x3 9 (Medium)	Take regular breaks and carry out buddy checks.	2x3 6 (Low)	N	



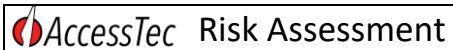
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Manual Handling	Manual Handling Injury/Sprain/Muscular injury	3x3 9 (Medium)	Assessment of items to be made prior to physical lift/pull, where in doubt a Manual handling task risk assessment to be carried out. Technicians to have completed GWO manual handling. – more specific - lifting bags	2x3 6 (Low)	N	
Noise from the client's infrastructure.	Damage to hearing	3x3 9 (Medium)	Adhere to site specific noise demarcation zones. Use Hearing Protection. Where in doubt use supplied ear protection.	2x3 6 (Low)	N	
Access/Egress to and from work area	Injury as a result of poorly maintained/damaged infrastructure	3x3 9 (Medium)	Technician to carry out visual inspection of work area prior to starting work e.g. check work platform for loose floor grating, handrails for security etc. Technicians to be vigilant at all times whilst using steps/ladders/walkways for damage/corrosion that may have compromised the integrity of the structure.	2x3 6 (Low)	N	
General Works at Height	Injury from dropped objects in general	3x4 12 (Medium)	Ensure an 'Exclusion Zone' is established prior to work commencement, and no conflict of activities occurs. Team lead responsible for establishing exclusion zone. Block access road. Signs and barriers to be erected at suitable locations taking into account the trajectory of falling objects. Frequent monitoring of Exclusion zones, ensuring that adequate exclusion zones are maintained throughout project progression. All tools and equipment to be attached to technician or other anchorage using suitable lanyards. All tools and equipment must always be attached. Any tools/equipment weighing 8kg or more will need an independent suspension system in accordance with IRATA COP.	1x4 4 (Low)	N	



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Working near or with crane (mobile or fixed overhead)	Entrapment, collision with moving object (the load or crane) Dropped objects	4x3 12 (Medium)	Operate in accordance with manufacturer's instructions and site procedures. Wear high visibility clothing. Ensure person slinging the load is aware of the presence team members and maintain communication between both parties. Use appropriate lifting bags. Adhere to site specific lifting plans. Ensure team leader establishes exclusion zone. Never walk under suspended load.	2x3 6 (Low)	N	
Moving machinery within WTG	Injury to technician. Damage to WTG.	4x3 12 (Medium)	Ensure limbs are kept away from moving parts. Only trained technicians to operate machinery. Always follow manufactures instructions. Perform pre-use checks on machinery and report any damages.	2x3 6 (Low)	N	



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General work	Lightning- Electrocution and Burns Damage to WTG	2x5 10 (Medium)	<ul style="list-style-type: none"> <li>Weather forecast assessed each day and communicated to on site personnel.</li> <li>Nominated person to check/monitor the agreed forecast.</li> <li>The forecast will determine whether the risk is:</li> <li><b>Green:</b> Low risk, no action required.</li> <li><b>Amber:</b> Medium risk, lightning should be monitored throughout the day by designated support staff</li> <li><b>Red:</b> High risk, No works are to take place until prediction returns to low risk and no strikes have been observed within 50 miles in the past hour. Monitoring is to take place for the remainder of the day.</li> <li>Personnel ensure aware of changing conditions.</li> <li>Know and understand the adverse weather procedure.</li> <li>Know and understand the tower evacuation procedure/safe zones.</li> <li>At the first signs of lightning ie. thunder, make the job safe, leave the tower and go to a safe place as per local instructions.</li> <li>All plant and equipment shall be earthed to the base of the tower.</li> </ul>	1x5 5 (Low)	N	
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# AccessTec Risk Assessment

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General work	Ice and Snow- Ice thrown from blades causing personal injury	2x4 8 (Medium)	<p>A safety helmet shall be worn when assessing a tower in these conditions.</p> <p>Where there is a risk of ice falling, request the turbine is stopped remotely by contacting operational control.</p> <p>Personnel to make sure a safe distance is kept until the turbine comes to a complete standstill.</p> <p>Personnel shall be aware of dislodging snow when Nacelle doors are opened.</p> <p>Under snow and ice conditions access and egress on site shall be assessed and continually monitored.</p> <p>Additional care shall be taken when driving in snow and icy conditions.</p>	1x4 4 (Low)	N	
General work	Extreme wind Wind pressure Gusts	3x3 9 (Medium)	<p>Wind speeds shall be assessed prior to work being carried out. Work tasks shall be prohibited when wind speed limits for that machine size are exceeded.</p> <p>Refer to RAMs summary document for site specific windspeeds.</p> <p>Weather forecast shall be known by Authorised Technician and decide if work is to commence.</p> <p>Care shall be taken when opening all external doors. Nacelle doors shall not be opened when wind speed limits for that machine size are exceeded.</p> <p>Assess the wind conditions throughout the operation and maintain contact with the operational controller for weather updates and follow local instructions.</p>	1x3 3 (Low)	N	



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General work and rope access work	Poor visibility Lifting operations Vehicle collisions with personnel, WTG or structures	3x3 9 (Medium)	Good communications shall be kept with all members of the team. Lights shall be used on transport, hazard lights or flashing beacons to be used where fitted. Hi-Viz vests shall be worn when working outside WTG in reduced visibility.	1x3 3 (Low)		
General work and rope access work	Extreme cold- Frost bite and hypothermia, Cold burns	2x3 3 (Low)	Personnel shall be informed of the signs and indications of hypothermia. Duration of work shall be controlled depending on temperature. Personnel are provided with cold weather clothing, gloves, head protection. Ensure survival kits if used in service vehicles or turbines are intact. Buddy check colleagues' condition during the carrying out of the works.	1x3 3 (Low)		
General work and rope access work	Sunny conditions or high humidity	3x3 9 (Medium)	Personnel shall be informed of the signs and indications of skin damage. Duration of work shall be controlled dependent on exposure. Drink water regularly. High factor barrier cream shall be made available to technicians. UV eye protection to be used when required. Spot check colleagues' condition during the carrying out of the works.	1x3 3 (Low)		
Contact with Chemicals	Equipment/ PPE damaged by harmful products	3x5 15 (High)	Carry out pre-use checks as well as periodic (depending on conditions of use) and 6 monthly inspections as per LOLER Regulations. Consult with product manufactures as to the effects of the product on the material/equipment in question. Quarantine any damaged/potentially damaged equipment/PPE. Do not destroy on site. AccessTec will dispose of equipment at the Bridgend office ensuring equipment is retired from the PPE management system.	1x5 5 (Low)	N	



Task:	Working on a Wind Turbine	Initial assessment Date:	18/02/20	Rev:	2	AT RAM 005
Location:	Onshore	Date of last review:	04/02/22			
Author:	Alex Mountain	Date of next review	03/02/22	Designation:		
Activities	Hazards	Initial risk rate Likelihood x Severity =	Safety Controls	Residual risk rate Likelihood x Severity =	Y/N	Action required Remarks

General Works at Height	Injury to technician whilst hatch is open	4x3 12 (Medium)	At all times when the hatch is open the technicians must be clipped on to a suitable anchor point prior to opening the hatch. Always ensure hatches are closed properly after use. Cease work and report if self-close does not operate on hatch. Do not override self-close at any time.	2x3 6 (Low)	N	
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Task:	Working on a Wind Turbine	Initial assessment Date:	18/02/20	Rev:	2	AT RAM 005
Location:	Onshore	Date of last review:	04/02/22			
Author:	Alex Mountain	Date of next review	03/02/22	Designation:		
Activities	Hazards	Initial risk rate Likelihood x Severity =	Safety Controls	Residual risk rate Likelihood x Severity =	Y/N	Action required Remarks

RISK RATING TABLE							
INCREASING LIKELIHOOD		➔					
INCREASING SEVERITY ↓		Very Unlikely 1	Unlikely 2	Possible 3	Likely 4	Very Likely 5	
	Personal Injury Equipment or Property damage Environment Impact	Little or no chance of occurrence	Conceivable but would require multiple failure of systems & controls	Could happen when additional factors are present but unlikely to occur	Not certain to happen but additional factors may result in an accident	Almost inevitable that an accident would occur	
	Negligible 1	No Disruption to operations Potential for slight injury Potential for slight effect Potential for slight damage	1 LOW	2 LOW	3 LOW	4 LOW	5 LOW
	Slight 2	Brief Disruption to operations Potential for minor injury Potential for minor effect Potential for minor damage	2 LOW	4 LOW	6 LOW	8 MED	10 MED
	Moderate 3	Partial Shutdown Potential for major injury Potential for local effect Potential for local damage	3 LOW	6 LOW	9 MED	12 MED	15 HIGH
	High 4	Disruption to operations Potential for single fatality Potential for major effect Potential for local damage	4 LOW	8 MED	12 MED	16 HIGH	20 HIGH
	V High 5	Major Disruption to operations Potential for multiple fatalities Potential for massive effect Potential for extensive damage	5 LOW	10 MED	15 HIGH	20 HIGH	25 HIGH

\*HUMAN FACTORS MUST BE CONSIDERED IN ALL TASKS, BUT THE RISK POTENTIAL IS NOT QUANTIFIABLE\* CARRY OUT SITE SPECIFIC RA BEFORE WORK COMMENCES.

Risk	= the likelihood of the harm being realised	Rating	Key to risk rating:
Hazard	= something with the potential to cause harm	1-6	= Low
L	Likelihood/probability	8 - 12	= Significant / Medium
S	Severity	15-25	= Unacceptable / HIGH
R	Risk		
RR	Residual Risk Rating		