Extreme Weather Action Plan Standon Calling 2026

DOCUMENT CONTROL

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PURPOSE AND AIMS

The purpose of this plan is to outline the procedures in place for extreme weather occurring during the Event. This can include:

- High winds
- Heavy rains
- Electrical storms / lighting strikes
- Rapidly arriving weather systems
- Extreme heat

TERMS OF REFERENCE

Operational wind speed: Maximum wind speed at which a temporary structure is designed to be used.

Wind speeds are generally either expressed in mph / kmph for regional weather forecasts, or knots for shipping forecasts. Forecasts issued for aviation are given in terms of m/s.

The precise relationship between these is 11.18 m/s = 21.74 knots = 25.00 mph. However, as a rule of thumb the following conversion factors may be used: 10m/s = 20 knots = 23 mph

Note that twice the wind speed means four times the pressure, i.e. four times the hazard and hence four times the risk unless risk control measures are taken.

Note that wind speed increases with height and may be 50% greater at a height of 20 metres above ground level.

Note that weather forecasts should be taken to be mean wind speeds unless gust speeds are explicitly mentioned.

DECISION MAKING

Appendix B details the action points that should be undertaken by various stakeholders in the case of all extreme weather.

WIND

Monitoring and measuring

All wind speed should be measured in 'clean' air avoiding turbulence and shelter from surrounding features. Ideally this will be achieved by sitting the anemometer on a l0m high mast which is located at least 60m away from all large obstructions, trees, etc. In many cases this will not be possible, and the anemometer will need to be fixed to the temporary structure itself. In this case, the anemometer should ideally be mounted at a height of at least (1.3H) + 1m where H is the maximum height of the structure on which the anemometer is mounted.

The Event will not rely solely on the site anemometer. Careful monitoring of several weather websites will be carried out throughout the build and show (see appendix C). If venue or structure supervisors are concerned about the wind speed and have not heard from Event Control, they should contact Event Control for confirmation of the wind conditions.

The main stage provider will also install and monitor an anemometer and will share this information with the Event when requested.

Alert levels

Alert levels for wind will be set using the operational maximum capacity for a structure. As each structure on site is different, actions will be categorised for wind speeds in excess of 75% of operational maximum, and 90% of operational maximum.

Appendix A details the alert levels for specific structures on site, and alert levels can be found in appendix B.

Contractors

It is required that a suitable and sufficient wind management plan be in place for all temporary demountable structures. It is incumbent on the contracted Structural Supplier to supply such plans and ensure the Event is made aware of the Maximum Operational Gust Wind Speed for the structures in advance of arriving onsite.

Suppliers of temporary structures are reminded of their responsibility to develop a Managed Wind Plan for every one of their structures (how to do this is outlined in Temporary Demountable Structures, Guidance on Procurement, design and use Third Edition 2007.)

Special Notes on Mobile Elevated Working Platforms (MEWPs)

Where possible, the Event ensures that the manufacturers recommendations allow all plant used for lifting and access to be used up to 28mph. Where this is not the case, the limiting conditions will be requested from the manufacturer.

Additional care must be taken when handling building cladding, sheet materials, panels, and other such materials, which can act as "sails" and seriously affect the stability of a MEWP, especially in gusty wind conditions.

ELECTRICAL STORMS

Monitoring and measuring

During the Event and normal conditions, careful monitoring of several weather websites will be carried out by the Site Manager and Event Controller. If venue or structure supervisors are concerned about the Electrical Storms and have not heard from Event Control, they should contact Event Control for confirmation of the conditions.

Alert levels

On receipt of a forecast which indicates that lighting may be a possibility within 12hrs, Event Control will bring all parties to a state of awareness. If a storm is approaching, Event Control will maintain contact with all parties, providing regular updates and advising on preparations.

Risk of lightning strike should not be taken in isolation; risk of high winds and precipitation are also highly likely in conjunction with this weather phenomenon.

Alert levels and action steps can be found in appendix B.

'Flash to Bang' principle

To check the distance of the storm, the Event will use the flash to bang principle as recommended in PLASA's Lightening Guide For Outdoor Events (2019). 'Flash to Bang' is based on the following facts:

• Sound travels at 330-340 meters per second or at 1 km in 3 seconds (approximately 1 mile every 5 seconds).

- · Light travels at 300,000 km per second.
- · Lightning will always be seen before thunder.

To calculate the distance between yourself and the storm, count the time between the lightning strike and thunderclap, then divide the number of seconds by 3 to find the distance in kilometres (by 5 for miles). If the distance between the thunder and lightning increases over a couple of strikes, the storm is moving away from you. If it decreases, it is coming towards you.

Action levels and lightning distances can be found in appendix B.

Further guidance

In an electrical storm, ideally, seek shelter inside large / permanent buildings, failing that motor vehicles are a good option. The idea being to keep away from open spaces and places of elevation.

Do not attempt to shelter under trees, it is estimated that 1 in 4 struck by lightning were hit whilst sheltering under trees.

If the show is paused for an electrical storm, the restart guidance is to wait 30 minutes after the last sub-30 second strike.

RAIN

Monitoring and measuring

During the Event, careful monitoring of several weather websites will be carried out by the Site Manager and Event Controller. If venue or structure supervisors are concerned about rain and have not heard from Event Control, they should contact Event Control for confirmation of the conditions.

Alert levels

In the event of forecast heavy rain there will be action points which are laid out in appendix B.

Special notes on wet weather

Due to the frequency of rain, there are a number of pre-emptive measures in place to help control the effects:

- · The installation of additional gravel tracks in both public and back of house areas
- Reinforcement of carpark entrance points with gravel to improve the hardiness of the area
- · Installation of temporary roadway to run the entire distance of the exit route
- Availability of temporary metal trackway (LD20) which comes in rolls and can be moved to specific locations more easily that the usual trackway.
- Covered venues and bars

- A supply of hay or equivalent to limit any excessive slippery areas. Excessive slippery areas will be isolated using hazard tape and Stewards if necessary.
- \cdot All temporary structures will be monitored for anchor slip and will be signed off by the erector for the prevailing conditions.
- All enclosed structures will have queue management systems in place before the gates open (sufficient fencing and stewards)

EXTREME HEAT

In 2018 and 2022 the UK was subject to irregular and elongated high temperatures which resulted in a new set of challenges for outdoor events. In this instance, the below considerations will be addressed:

- · Scorched earth and increased fire risk, especially in carparks
- Reassessment of fire coverage
- Use of BBQs prohibited
- Drinking water points added
- · Shaded areas added
- Additional welfare requirements including suncream and PPE
- Traders' food storage assessed

APPENDIX A - SPECIFIC TDS ACTION LEVELS

Examples below – details tbc once site plan is finalised

Location	Name / Description	Style and size	Wind load capa	ing	75% Wind load capa	d ing	Action	90% wind loadi capa	ing	Action of Event team	Action of Contractor
			mp h	kp h	mp h	kp h		mp h	kp h		
Site wide	Access Towers	misc	35	65	26	42	No working at height from 17mph	32	51	Dismantl e	As per contractor document s
Arena	Cup Wash	9 x 9 clearspan	50	80	37	60	Contracto r & event on standby	45	72	Evacuate structure	As per contractor document s
	Artist dressing room	9 x 24 clearspan	50	80	37	60	Contracto r & event on standby	45	72	Evacuate structure	As per contractor document s
	Entrance tent	6 x 21 clearspan	50	80	37	60	Contracto r & event on standby	45	72	Evacuate structure	As per contractor document s
		3 x 6 clearspan	50	80	37	60	Contracto r & event on standby	45	72	Evacuate structure	As per contractor document s
		6 x 6 clearspan	50	80	37	60	Contracto r & event on standby	45	72	Evacuate structure	As per contractor document s
		6 x 12 clearspan	50	80	37	60	Contracto r & event on standby	45	72	Evacuate structure	As per contractor document s
		3 x 3 clearspan	50	80	37	60	Contracto r & event on standby	45	72	Evacuate structure	As per contractor document s
		12 x 18 clearspan	50	80	37	60	Contracto r & event	45	72	Evacuate structure	As per contractor

							on standby				document s
		5 x 5 clearspan	50	80	37	60	Contracto r & event on standby	45	72	Evacuate structure	As per contractor document s
		9 x 12 clearspan	50	80	37	60	Contracto r & event on standby	45	72	Evacuate structure	As per contractor document s
		40ft x 120ft trad	40	54	30	48	Contracto r & event on standby	36	58	Evacuate structure	As per contractor document s
		2 x 10.5 x 15m stretch	55	88	41	66	Contracto r & event on standby	50	79	Evacuate structure	As per contractor document s
Arena	Main Stage	15m orbit	44	70	33	53	Contracto r & event on standby	39	62	Evacuate structure	As per contractor document s

APPENDIX B – EXTREME WEATHER PLAN

THREAT & ALERT		ACTIONS					
ALERT METHOD	VISUAL INDICATOR	SITE MANAGEMENT	EVENT MANAGEMENT	TECH PRODUCTION	OTHER		
Storm Level	1 (electrical	storm within 20 m	niles of site / 32km	- 1 minute 40 seco	onds Flash to Bang)		
Event Control alert site, safety, tech production Storm Level	Potential visual of storm	Standby mode	Event Control alerts site, safety, and tech production only.	Standby mode			
Event Control alert all channels, ensure all are on standby, cease work as listed, and prepare for crowd movement s	Potential visual of storm	All work at height ceases Standby to implement level 3	All work at height ceases including fairground rides and observation towers Alert ELT. Standby to implement level 3. Prepare for large crowd movements, especially around undercover structures. consider public comms.	All work at height ceases including any follow spot ops in elevated positions Standby to implement level 3	SECURITY: Ensure access to loud hailers SECURITY: Prepare for large crowd movements, especially around undercover structures		

Storm Level	Storm Level 3 (electrical storm within 6 miles of site / 10km - 30 seconds Flash to Bang)								
Event Control alert all channels and implement protocols as decided by ELT	Visual of storm	Cease normal work and prepare protection of equipment Ensure ELT is aware of protected and unprotected structures Ensure representative from power contractor is available	ELT consider if it is necessary to power down stage dependent on movement of storm and frequency of strikes If required, implement show pause protocol and prepare for partial evacuation Prepare for large crowd movements	Power down stages where necessary and when advised from Event Control Use show pause protocol and messaging Protect equipment where possible	SECURITY: Assist with show pause or evacuation as required SECURITY: Relay messaging to customers on the ground using show pause or localised evacuation protocol				

Storm Level 4 (electrical storm within 3 miles of site / 5km - 18 seconds Flash to Bang)

Event	Visual of	Show pause	Show pause	Show pause	SECURITY: Assist
Control	storm	implemented	implemented,	implemente	with show pause or
alert all		for larger	ELT to take	d in for larger	localised
channels		stages	further	stages and in	evacuation as
and			decisions on	line with	required
implement			restart after	protocol and	
show		Where	30 minutes	messaging	
pause and		possible,	from last post-		SECURITY: Relay
/ or		crew to cease	30 second		
localised		work and take	strike	Where	messaging to
evacuation		shelter		possible,	customers on the
				crew to	ground using show
			Advise public	cease work	pause or localised
			to move from	and take	evacuation
			wood area	shelter	protocol.
				Allotogo	Advise public to
				All stage	move from wood
			Where	crew	area
			possible, crew	evacuated from	
			to cease work		
				structure,	

			and take shelter Prepare for large crowd movements	including FOH towers Monitor the PA and light swing	
Event Control provide periodic updates on forecast to all channels	>10mm / hr	Contact all structural babysitters to check structures for leaks, slipping pins / pegs / anchors, and ponding Contract power to check installations	Ensure outdoor personnel have correct PPE / weather Prepare for large crowd movements Welfare consideration s for damaged belongings or illness	Protect equipment where possible	STRUCTURAL CONTRACTOR: check for ponding, moved pins/pegs/anchors, , subsidence, leaks SECURITY: Advise on locations for assistance to those with damaged belongings POWER: Check installations
		conditions and consider redeployment of ground protection or wood chippings Check drains and runoff	Consider public comms protection		

Wind level 1 - repeated gusts / hourly levels 15 mph								
Event Control alert site, safety, tech production of speed and direction	Small branche s move and flags flutter (15mph)	Standby mode, contact all structural babysitters or if no babysitter then call the contractor to discuss	At 15mph, Event Control alerts site, safety, and tech production only.	Standby mode	STRUCTURAL CONTRACTOR: revert to specific structure plans			

Wind level 2 - Winds at the lowest of either repeated gusts / hourly levels of 16-30 mph OR % of structural capacity

F	Consul	A+ 17 II	Duamana fan	C	CTDLICTLIDAL
Event	Small	At 17mph all	Prepare for	Secure and	STRUCTURAL
Control alert all channels to be on standby	trees sway (21mph)	access tower work ceases At 25mph all	potential evacuations of structures - alert ELT	prepare to cover equipment	CONTRACTOR: revert to specific structure plans
and cease any work as required by individual	Flags move, heras fence starts to	scissor lift work ceases At 28mph all		Monitor the PA and light swing	SECURITY: Prepare for potential evacuations of structures
structural plans	blow over (28mph)	work on cherry pickers cease		All work at height ceases	SECURITY: Ensure access to loud hailers
		Checks undertaken for damage to fencing, hoarding, pop-ups, if upward trend of wind then			SECURITY: Prepare for large crowd movements
		remove cladding, scrim etc			MANAGER: alert all traders
		All structural babysitters to			

check and		CREATIVE: check
reinforce		all installations and
structures as		remove if required
per structural		
plans		
For structures		
that are at		
75% of wind		
capacity,		
ensure		
babysitters		
are		
undertaken		
procedures		
as per		
structural		
1		
plans		

Wind level 3 - Winds at the lowest of either repeated gusts / hourly levels of 30-40 mph OR % of structural capacity

Event Control alert all channels and where	Whole trees sway (35mph)	Remove all fence covering and cladding	Prepare for potential evacuations of structures - call ELT, raise	Secure and cover equipment	STRUCTURAL CONTRACTOR: revert to specific structure plans
required, follow evacuation protocol Updates to channels	Camping tents blow away (40mph)	For structures at 90% of wind capacity, manage the structural babysitters to	Ensure outdoor personnel have correct PPE / weather	Video wall lowered (at TBC mph) PA lowered (at TBC mph)	SECURITY: Assist with show pause or localised evacuation as required
every 15 mins.		lock down structures in line with structural plans	Prepare for large crowd movements	Truss lowered (at TBC mph)	SECURITY: Relay messaging to customers on the ground
		For structures that are at 75% of wind capacity, ensure babysitters are undertaken procedures as per structural plans	Welfare consideration s for damaged belongings or illness	Prepare for show stop Clear stage of all non-essential crew Where allowable, remove stage sheeting to allow wind to blow through	CREATIVE: remove an installations at risk

Wind level 4 - Winds at the lowest of repeated gusts / either hourly levels of 40mph OR % of structural capacity

Event Control alert all channels and show	Twigs break (43mph)	Continuation of safety critical work only.	Continuation of safety critical work only	Continuation of safety critical work only.	STRUCTURAL CONTRACTOR: revert to specific structure plans
pause called.	Branche s break (50mph)	staff to a place of safety For structures at 90% of wind capacity, manage the structural babysitters to lock down structures in line with structural plans For structures that are at 75% of wind capacity, ensure babysitters are undertaken procedures as per structural plans	Manage evacuation and show pause Non-essential staff to a place of safety	Non- essential staff to a place of safety	SECURITY: Assist with show pause. All non-essential staff to be removed to a safe distance from structures SECURITY: Relay messaging to customers on the ground

APPENDIX C - WEATHER FORECAST SOURCES

- http://www.xcweather.co.uk
- http://www.windguru.cz/int
- http://www.raintoday.co.uk
- https://www.lightningmaps.org
- https://www.lightningmaps.org
- https://www.rain-alarm.com
- https://itunes.apple.com/us/app/storm-radar-weather-tracker/id1216396545?mt=8

APPENDIX D – BEAUFORT SCALE

Wind Speed Conversion Chart

Beaufort Force	Description	Specification on Land	Knots	Km/h	mph	m/s	kN/m²
0	Calm	Smoke rises vertically	0	0	0	0	0
1	Very light	Direction of wind shown by smoke drift but not by wind vanes	0-3	1-5	1-3	1-2	.002
2	Light Breeze	Wind felt on face, leaves rustle, ordinary wind vane moved by wind	4-6	6-11	4-7	2-3	.005
3	Gentle Breeze	Leaves and small twigs in constant motion, wind extends light flag	7-10	12-19	8-12	3-5	.015
4	Moderate breeze	Wind raises dust and loose paper, small branches move	11-16	20-29	13-18	5-8	.039
5	Fresh breeze	Small trees in leaf start to sway	17-21	30-39	19-24	8-11	.074
6	Strong breeze	Large branches in motion, telegraph wires whistle	22-27	40-50	25-31	11-14	.120
7	Near gale	Whole trees in motion, inconvenient to walk against wind	28-33	51-61	32-38	14-17	.177
8	Gale	Twigs break from trees, difficult to walk	34-40	62-74	39-46	17-20	.245
9	Strong gale	Slight structural damage occurs, chimney pots and slates removed	41-47	75-87	47-54	20-24	.353
10	Storm	Trees uprooted, considerable structural damage	48-55	88-101	55-63	24-28	.481
11	Violent storm	Widespread damage	56-63	102-117	64-73	28-32	.628
12	Hurricane	Widespread damage	>64	>118	>74	>32	