

	TASK SUMMARY				
Purpose	• This procedure is to ensure specific processes are followed when dealing with empty during unstable weather and/or when there is potential for unstable weather.				
Scope	 This procedure will apply to all workers managing empty containers on TYNE sites. This procedure applies to all Tyne Container Services depots/yards 				
Responsibilities	• Managers/Supervisors: MUST ENSURE that workers are correctly trained in this SOP and ensure that they understand and comply with this SOP at all times.				
Identified Risks and Control Measures	 Incorrect stacking of containers could cause container stacks to become unstable and fall over during high winds. When stacking any containers, ensure that they are neatly stacked corner casting to corner casting with no gaps between the sidewalls. Make sure that only gaps of required distance are left between the corner ends to allow easy stacking and removal (refer to below diagram). Do not remove containers that are "hooked" or "lipped". If this is required, notify leading hand or supervisor for further instructions. Containers MUST NOT be placed on designated walkways 				
	Incorrect method				
	Right Incorrect method in high winds				
Identified Risks and Control Measures	 Do not park forklifts directly adjacent to high stacks. Forklifts to be parked only in designated parking areas. When stacking and removing containers ensure that no individual containers are left standing alone on top of stacks at any given time. Single stacks of more than 3 containers are not to be left at the end of the day. This is to be continually monitored by all forklift operators, Manager and Supervisors. Pyramid stacking is to be monitored and adhered to at all times where possible. Single containers must always be made safe and placed next to other containers. When stacking empty containers, ensure that they are stacked no higher than as follows: 40ft Containers – maximum of four containers high – (4) high – Punchbowl and Tempe 40ft Containers – maximum of four containers high – (4) high – Punchbowl and Tempe 20ft Containers – maximum of four containers high – (4) high – Punchbowl and Tempe 20ft Containers – maximum of four containers high – (4) high – Punchbowl and Tempe 20ft Containers – maximum of six containers high – (6) high – MT Movements ONLY 20ft Containers – maximum of six containers high – (6) high – MT Movements ONLY This is to be continually monitored by all forklift operators and Manager / Supervisors. No forklift driver or yard staff should attempt to save containers during high winds. Dislodged containers must not be moved until the "All Clear" signal has been given by the Manager / Supervisor. Forklift Operator must ensure when loading containers on flat surface ground, all four corner casts meet the surface. If one cast is off the ground, this shows evidence of uneven ground. If it is noted that there is uneven ground, the forklift operator must report specific areas of concern to their Supervisor. The Su				



	 grade/mend the surface to make it suitable for the first container to sit with all four casts on the ground. DO NOT STACK ON UNEVEN GROUND. Forklift Operator must be aware of condition of site pavement and immediately report any potholes or surface irregularities, which may affect forklift operations, to their Supervisor/Manager. The affected area is to be excluded/barricaded from use. Forklift Operators must exercise care when entering and leaving stack areas and adhere to safe work practice. Truck drivers must ensure container doors are secured prior to entering the yard. No Forklift Operator is to lift a load that exceeds manufacturers safe working load recommendations; refer to manufacturers plate specifications on the forklift. If an incident or collision occurs, stop all movements of the forklift, remain at the controls and notify the Manager / Supervisor for further instructions. All drivers are to be site inducted and follow site rules, including remaining in their truck cabin or in driver safe zones when loading or unloading. Couriers, visitors and other vehicles are not to park in the yard. All vehicles must park in designated parking bays as per the traffic management plan. 				
PPE	 High visibility clothing times. 	g and safety steel capped footwear must be worn all at the			
Site Speed Limit	Speed limits may vary in limit. Tempe Punchbowl	dividual sites. All personnel must adhere to the site speed 15 km/h 5 km/h			
	MT Movements	10 km/h			
Precautions to be exercised	Ensure this procedur	e is read in full and understood.			
Relevant Personnel to be Trained and Trainer/Assessor Qualification	• All TYNE workers must be trained in this procedure and must be able to explain the steps and then correctly perform.				
Relevant Legislation/ Standard Forms relevant to SOP	 Work Health and Safety Act 2011 & Regulation 2017 (NSW), Shipping Container Storage Act Oct 2015/Planning Act, Australian Standard – 3711.10-2000 Freight Containers. CoR RMS Legislation <u>http://www.rms.nsw.gov.au/business-industry/heavy-vehicles/safety-compliance/chain-of-responsibility/index.html</u> NHVR – National Heavy Vehicle Regulator. <u>https://www.nhvr.gov.au/road-access/mass-dimension-and-loading/loading</u> 				
Review of SOP	 During situations of unstable weather conditions this procedure is to be activated please make notes of improvements/corrective actions raised during these situations that can be used when reviewing this procedure to improve the process. 				
Method of communication of SOP to relevant personnel:	 Hard and soft copy of SOP In house training by Manager/Supervisor using the Competency Assessment Form. 				



PROCEDURE

STEP #		TASK DESCRIPTION						
Weather M	Monitoring							
1.0		The Manager /Supervisor is responsible for checking and monitoring the weather each day and constantly on high wind days.						
	Networ nationw	 All Senior Managers and Depot Managers must be registered on the Early Warning Network (EWN). The EWN sends email and text alerts relating to all TYNE sites nationwide when there are forecast winds over 45km/h in the next 24-hours. 						
	service		veatherma	<u>ation.net.au)</u>	for site-spe	via Environdata's WeatherMatic ecific wind conditions from the	on LIVE	
		eceipt of the E (single stacks			r text beco	me pro-active to minimise high	i risk	
1.1		ny possibility at 15-minute				Manager/Supervisor must mor	nitor	
	A comp activity.		must be le	ft open to th	e Managei	/Supervisor monitoring high wi	ind	
1.2	Whilst each state has a wind velocity meter and alarm system, it is important that the site Manager/Supervisor make a call to secure the yard in sufficient of time prior to sirens when becomes clear that unstable weather is imminent. This ensures securement of the yard is sa and possible.							
	 Waiting until the alarm sounds is too late. Refer wind velocity meters protocols as outlined below. 							
	Wind Veloc	ity Meter and	Yard Sec	urement / Ev	acuation F	Protocols		
	Wind speed Authorities or MPH. W Strength. F	d can be mea measure it in /e can use thi CL Container will drift @24	sured in va nautical k s following s @ Gross	arying terms. nots per hou table to pro s mass of 17	Consultar r. Land ba vide us wit tonnes wi	nts call it metres per second. P sed operations have it as eithe th a useful tool when reacting to Il start to drift at 50m per secon stack and 27m per second for t	r KPH o Wind nd.	
	FCL	Metres	Knots	MPH	KPH	Stacking Conditions		
			25	28.78	46.3	Average Strong Wind Warning		
		24	46.63	53.67	86.4	FCL's should not move		
		27	52.46	60.38	97.2	FCL's should not move		
		50	97.14	111.81	180	17 tonnes or upward will		



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STEP #	# TASK DESCRIPTION								
1.2	Empties	Metres	Knots	MPH	KPH	Stacking Conditions			
			25	28.78	46.3	Average Strong Wind Warning			
		24	46.63	53.67	86.4	FEU will start to drift if single at this speed			
		27	52.46	6.38	97.2	Next container will move at this speed			
		29	56.34	64.85	104.4	Next container will move at this speed			
		32	62.17	71.56	115.2	Next container will move at this speed			
		50	97.14	111.81	180	Next container will move at this speed			
	NOTE: Win	d velocity eff	ects on TI	EU's are not	known.				
Wind Velo	city Meter and	Yard Secure	ement / Ev	acuation Pr	otocols				
	the report and the likelihood of any safety issues that may result using the data provid the consultants and others. The following policy applies to managing high wind events at all TYNE sites Wind Speed Action								
		50 km/h Warn operations of increased wind speed and cease High Carrying							
	55	km/h	Cease Op	erations, Clo	se Facility				
1.4	 directed If there is operator stacks of Manager road tranwind per Appropri 	otherwise by s sufficient er s and ground r a one off co r / Shift Supe sport drivers iods in exces ate perimete	v Manager vidence of d personne ontainer or rvisor to e s, wash pa ss of 50 kr r buffers r	nent. danger, the el to take app n top of stack nsure NO pe d and other e n per hour.	Manager/S ropriate sa s and if de destrians (external pa i into consi	during high wind warnings unless Supervisor will instruct all forklift afety precautions to secure single emed necessary shut the site down (including container, refer monitors, including container, refer monitors, of 9.14m.			
	Upon the wir Manager/Su					ninute intervals, the Site ard.			
1.5	No pedes	strians (inclu ernal parties	ding conta	iner, reefer n	nonitors, ro	oad transport drivers, wash pad and ring wind periods in excess of 50kn			
ne Container Se	ervices St Peters NSW 2044	Docum	ent No: SOP (This docu	ment is uncontrolled Page 4 of			



STEP #	TASK DESCRIPTION
	Manager/Shift Supervisor must ensure there are NO container monitors, wash pad, forklift mechanics or other external parties in the yard areas during high wind periods.
1.6	• They are to be advised to remain in office / building area until advised clear to return to yard areas.
	All trucks directed to yard for loading /unloading are to be directed to open areas or ordered out of the yard whilst wind ratings/ severe weather is monitored.
1.7	 Loading bays in and around container stacks are NOT to be used during this period. Road transport drivers must ensure that trucks are NOT parked unnecessarily below high stacks of containers, if need be all trucks must be removed from yard to minimise the risk of falling containers on trucks.
1.8	All external parties in office / building areas are to be advised the yard is closed and asked to leave site.
1.9	Wind speed is to be continually monitored at 15-minute intervals.
1.10	If the alarm is not activated within this time frame, and the weather monitor shows that the unstable front has passed, then a decision can be made to reopen the site.
1.11	Yard will be shut down if the constant wind speeds reach 55 KPH. The gates are to be closed and barriers installed e.g. a container placed blocking the entrance. When the 1 minute average wind speed on-site is measured at 55kph the amber alarm will trigger (currently set at 55kph).
	NOTE: The site can only be re-opened when the winds are below 50kph.
Personal P	rotective Equipment
	The following personal protective equipment must be used at all times when applying this procedure:
2.0	 Steel capped safety boots compliant with AS/NZS 2210: and
	• High visibility clothing including garments such as reflective striped high visibility vests, shirts and jackets etc. that comply with AS/NZS 4602:1999.
Responsibi	ities
	Personnel – forklift operators, yard staff, office staff, visitors, outside customers to:
2.1	 Participate in training and follow the instructions of managers relating to this procedure. Communicate with managers and report any deficiencies or breaches of this procedure. Comply with this procedure.
	Managers / Supervisors to:
2.2	 Ensure the consistent application of this procedure across their site operations. Implement worker training, consultation and communication to ensure all relevant parties are competent in the application of this procedure (using the competency assessment form). Provide ongoing infield supervision of operations to ensure that all aspects of this
	 procedure are complied with. Investigate all breaches of this procedure and instigate appropriate corrective action to prevent any re-occurrence.



Induction confirmation:

This SOP has been developed in consultation with the workers and has been read and signed by all workers involved in this activity. I note that I have read and understood the above SOP and will ensure work is completed accordingly.

Date:	Name:	Signature:



COMPETENCY ASSESSMENT

To confirm acceptance and understanding of the requirements of this SOP, please complete and sign the below fields.

Questions	Answers	Competent (Y / N)
Who is responsible for checking and monitoring the weather each day?		
What is the website that the weather conditions can be checked on a daily basis?		
If there is a possibility of unstable weather, how often should you check during the day?		
Whilst each site has a wind alarm system, what should the Site Manager/ Supervisor do prior to any warning alarms are activated?		
Upon receiving severe weather warnings, what two (2) things should happen?		
Based on the table at point 1.3, what is the average strong wind warning when you have empty containers stacked?		
Based on the table at point 1.3, at what speed (KMH) would a FEU start to drift?		
Unless otherwise directed, where should all staff remain during warnings?		
When should you evacuate the yard?		
Are pedestrians (including container, reefer monitors, road transport drivers, wash pad and other external parties) are allowed in the yard areas during wind periods in excess of 50 kmh?		
Whilst winds are severe where should all heavy vehicles be directed for their safety?		
Whilst winds are severe at what interval should they be checked?		
At what wind speed can the site be reopened?		

Full Name:	
Position:	



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Company:		
Date:	//	
Signature:		
Date of Expiry: (2 Years from completion date)	//	
Signature and date of Trainer/Manager/Supervisor:		//



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Standard Operating Procedure – 05 Weather Monitoring & Container Park Securement During Unstable Weather

DO NOT PRINT

COMPETENCY BASED ASSESSMENT ANSWERS

Questions	Answers	Competent (Y / N)
Who is responsible for checking and monitoring the weather each day?	Manager or Supervisor	
What is the website that the weather conditions be checked on a daily basis?	Australian Bureau of Meteorology http://www.bom.gove.au	
If there is a possibility of unstable weather, how often should you check during the day?	At 30 minute intervals	
Whilst each site has a wind alarm system as a Site Manager or Supervisor what should you do prior to any warning alarms are activated?	A call should be made to staff to secure the yard.	
Upon receiving of severe weather warning, what 2 things should happen?	 Meeting with relevant personnel Ensure the yard is ready and secure 	
Based on the table at point 1.3, what is the average strong wind warning when you have empty containers stacked?	46.3 kmh	
Based on the table at point 1.3, at what speed (KMH) would a FEU start to drift?	86.4 kmh	
Unless otherwise directed, where should all staff remain during warnings?	Indoors	
When should you evacuate the yard?	Upon sirens going off and/or instructed by management.	
Are pedestrians (including container, reefer monitors, road transport drivers, wash pad and other external parties) are allowed in the yard areas during wind periods in excess of 50kmh? Yes or No	No	
Whilst winds are severe where should all heavy vehicles be directed for their safety?	To open areas or ordered out of the yard	
Whilst winds are severe at what interval should they be checked?	Every 15 minutes	
At what wind speed can the site be reopened?	Below 50kmh	

CHANGE CONTROL RECORD

Date:	Reason for Change:	Author:	Approved:	Approved:
6/12/19	Creation of SOP	(Compliance OH&S)		
11/12/19	Revision of SOP	(Compliance OH&S)		
21/01/20	Revision of SOP	(Compliance OH&S)		
05/02/20	Revision of SOP	(Compliance OH&S)		
12/02/20	Minor Amendment	(Compliance OH&S)		

NB. TYNE requires that all information contained within this document and attachments remains confidential within the company unless specifically given permission in writing.