

Driver safety at customer sites: bulk delivery 6th edition

INTRODUCTION

Following the ejection of three filter housings from silo tops within three months, the procedure for validating customer safety controls has been updated.

Approaches adopted by MPA Cement member companies will vary, although the validation of safety controls will be undertaken jointly with the customer before the first delivery commences.

- A green rating indicates that the issues have been satisfactorily controlled.
- An amber rating indicates the need to address an issue within an agreed timescale and to implement interim measures in order for deliveries to be made safely.
- A red rating indicates an issue has been identified which renders the site unsafe for delivery. This information will be used to agree an improvement plan before deliveries commence.

Any issues identified will be subject to further discussion, although ultimately it is the customers responsibility to correct any deficiencies.

The following safety controls are essential:

- A correctly sized, secured and maintained, pressure relief valve and filter.
- Regular maintenance carried out on the silo and fittings.
- High level alarms visible/audible to the driver and tested regularly
 preferably from ground level.
- All inlet ports locked when not in use.
- Operating procedures displayed and enforced.

Be aware that a badly maintained silo is a potential bomb.

- Dust emissions from the silo require urgent attention.
- There is an expectation that automatic shutoff valves should be fitted to existing silos by 2025 (new silos should be fitted with automatic shutoff valves as a matter of course).



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1	General site safety	GREEN AMBER	RED	1.12	Is there secure fencing around pits or tanks into which our driver could fall?	GREEN AMBER RED
1.1	Is the approach to the site entry safe for articulated Tanker vehicle access and egress?			1.13	Is our driver safe from falling objects from overhead hazards (e.g. conveyor belt systems)?	
1.2	Does the site display clear signage / instructions at the site entrance (e.g. driver instructions, directions, speed limits etc)?			2	Customer's silo Can the silo inlet connection be reached	
1.3	Is the onsite approach to the discharge point safe for articulated Tanker vehicle access and egress with minimal vehicle manoeuvring?				by one length of hose from the tanker (one hose length = green, two hose length = amber, three hose lengths = red)?	
1.4	Is the ground even and firm?			2.2	Is the silo inlet connection between two and a half feet (0.8m) and four feet (1.2m) above ground level and is the inlet pipe angled at 35 to 45 degrees to the vertical?	
1.5	Is the ground properly drained, i.e. minimal standing water?			2.3	Is all pipework between the end of the silo	
1.6	Is the ground free from slip and trip hazards?				inlet connection and the silo firmly secured, for instance by mounting brackets?	
1.7	On first arrival does the customer provide			2.4	Is all pipework between the end of the silo inlet connection and the silo made of steel (or suitable equivalent) and does it appear	пп
a.	a site specific induction?				in reasonable condition?	
b.	task specific instructions (e.g. the connection procedure, including the procedures to follow if the operation of filters and alarms are not fully automatic, what to do if an alarm sounds or emissions of dust occur)?			a.	Is the coupling (and anti-whip device, where fitted) of an appropriate type and in good condition?(because of the risks of leaks and hoses detaching, couplings must be of a proprietary type and not home made)	
C.	information on how much space is available in the silo?			b.	Type of connection (Unicone, Stortz or Other)?	
d.	details of who to contact in an emergency?					
1.8	Has the customer defined a safe pedestrian access route for our driver to collect keys and deliver paperwork (also consider out of hours)?			C.	If Unicone, is the silo connection structurally intact (i.e. no hole drilled to	
1.9	Does the delivery point allow the driver to maintain a safe exclusion zone around the driver and the pressurised tanker from other site operations and vehicle movements?				accept padlock)?	
1.10	If the cement tanker has to make a reversing manoeuvre, is an agreed safe system in place that excludes pedestrians from the area behind the tanker?			d.	If Unicone, use test piece and note results	
1.11	Is the lighting sufficient for our driver to see where he is going and what he is doing?			2.5	Is the silo inlet connection clearly identified by a sign/s showing silo number, product identification and discharge procedures?	

2.6	Is the silo inlet connection "capped" and "locked", when not in use?	GREEN AMBER RED	2.18 Are there any further comments ye	ou wish to make?
2.7	Is the high level detection system linked to an audible and visual warning, for each silo which can be seen and heard by the tanker driver whilst standing at their controls during delivery?			
2.8	Are warning lamps and sirens clearly labelled to indicate the alarm condition they are displaying and the silo to which they relate?			
2.9	Where there is a local limit on maximum allowable pressure, is it clearly displayed?		Assessor name Signature*	 Date
2.10	Confirm with the customer that there is a functioning Pressure Release Valve (PRV)?		Company	
2.11	Is there is a written maintenance plan for all silo safety controls (e.g. PRV, filter etc) and records that maintenance has taken place.		Site contact Site signature*	Date
2.12	Are there regular inspections of silo safety controls (commensurate with the risk) e.g. for evidence of dust emissions etc.		FOR OFFICE USE ONLY	Date
	To evidence of dust emissions etc.		Overall Customer Site Safety Rating Explanation	GREEN AMBER RED
 NOTE (additional safety points): Drivers must stop the delivery if an alarm sounds or if dust emissions occur A whip arrestor must be used for each delivery Drivers are not authorised to permit the towing of vehicles 				

Disclaimer

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