## Plant and Equipment Minimum Standards

PEOPLE	20													
PEOPLE PLATF										4				
PLACES PLANT	Towable Equipment	180 Degree Excavator	Mini Excavator (up to 8T)	Tracked & Wheeled 360 Degree Excavator (9T and above)	Dual View Dumper (6T and above)	Articulated Dump Trucks (25T and above)	Crawler Crane	Mobile Crane	Telehandler	MEWP	Ride on Cabbed Compaction Roller	Tracked Dozer	Forward and Side Tipping Dumper (3T)	Vacuu Extract Europe Suctio Excava
MANDATORY		•	$\bullet$	•		•	•	•		$\bullet$	•	$\bullet$	•	ESE 10/ 26/32
Competency					7									
PPM														
LOLER/PUWER Legal Standards eg ROPS, FOPS, mirrors, seat belts etc) are being met in addition to above														
360 degree all round vision (cameras)									▶ <sup>2</sup>					
Variable track (<3T)														
Mass deployment alarm														
Anti entrapment device														
Work at height protection														
Collision avoidance system front and rear (3T)														
Rear collision avoidance system (> 6T) or rear camera														
Double locking quick hitch (>5T)														
Manual/direct attachments quick hitch (<5T)														
Height and slew restrictors <sup>1</sup>														
Speed restrictors														
Reversing/movement alarms <sup>3</sup>														
FORS compliant (Fleet Operators Recognition Scheme).														►
DESIRABLE														
Cabbed machine														
Anti entrapment / secondary guarding system / materal handling														

DESIRABLE																	
Cabbed machine																	
Anti entrapment / secondary guarding system / materal handling attachments (see appendices in document PET STD1)																	
360 degree all round vision (cameras)																	
360 degree all round vision (cameras) c/w pedestrian interface system <sup>6</sup>																	
110v only outlets / 230v outlets to be blanked off														5			
Consideration to use only Stage V engines or better																	
Everyone has the right to be	ttps://digest.i Subject to ris	ntranet.int/hor	<b>ne/ims/4-star</b> dependant on o	Equipment Minim dards/plant-equ operating paramet	<b>iipment-and-tra</b> ers	ich are available o ansport-standa	r <mark>ds.aspx</mark>	pplies to petro	l site generators o	only with maximu	ım output	Document Re	ference Proces	s Parent Revisi	on Status Docum	nent Owner	Date Pag

## 100% Safe

requirement

Rear camera minimum requirement - 360 degree camera desirable 2 In built-up areas this may be replaced with a white noise movement alarm 3 4

- of up to 10KVA
- This technology should be be available early 2021
- Machines 11T and over require full 360 degree camera / all machines under 11T reverse camera minimum 7 Operators for dual view machines must have completed full product familiarisation training



standards will be based upon engine emission standards set in EU Directive 97/68/EC and its subsequent amendments.

Engine emissions:

For non-road mobile plant this is Stage 5 engine emissions in the London Central Activity Zone and Stage 4 engine emissions for everywhere else

Some cities may introduce the Stage 5 engine emissions requirement in their air quality standards. For further details, see appendix C of; https://assets.publishing.service.gov.uk/government/uploads/ system/uploads/attachment\_data/file/672406/E31\_-\_Air\_ Quality\_v1.5.pdf

Jonathan Hall Dec 20

For more details regarding this legislation and clarification on what equipment falls into scope please consult www.nrmm.london