PTW Safety Checklist No. 16



BLASTING & PAINTING INCLUDING USE OF PORTABLE DIESEL & IC ENGINES, USE OF NON-CERTIFIED OR NON IS ELECTRICAL EQUIPMENT & STEEL WIRE BRUSHES & NEEDLE GUNS WHERE APPLICABLE

Other Checklists that may be relevant:		<u>50</u>					
Peri	mit Numk	per:	Date:				
Rev	2.2	Issue Date: 01/03/2021	Authorised By: PSM				
Work √	Sandbla Section Operation Use of n	his permit will include the following operations sting, waterblasting, needle gunning, steel wir ONE of this checklist to be completed for all Pon of portable diesel & IC engine – Section TW ion-certified or non-IS electrical equipment in Icklist to be completed.	re brushes, spray pa Permits. O of this checklist t	ainting o be co	omp		
		ns 2 & 3 of this checklist are in addition to the oall parts of this permit activity.	checks required in	Sectio	n 1		
SEC ⁻	TION ON	<u>E:</u>					
PRIC	OR TO PE	RMIT ISSUE:					
1	pumps,	entially affected instrumentation, safety trip devices , motors, and air intakes are to be protected from i tray, grit, and debris.		Y	N	N/A	
2	of doing	er need to isolate or inhibit fire and gas detection of so. If required fill out <u>Checklist 50 Working on, o</u> ency / Safety Systems Including IPF Checks.					
3		ork team is aware of and understands the contents material being used.	s of the SDS sheets				
4	from the	ements have been made to contain and regularly e worksite (or suitably protected from the wind) to nto other process equipment including drains.					
5		is known to contain hazardous material i.e. lead; por containing and disposal of the toxic material (as					
6	the pres	removal of work on any wrap material consult the sence of asbestos is suspected, all work shall cea ement plan confirmed with the HSE Department.					
	Health Ha	azard Registers					

ine / vessel is hydrocarbon duty and is not able soured, then consider the following four bullet potelow: line blasting of hydrocarbon piping should be avorable of the practical options. ese requirements are for all forms of invasive blanet, sponge blasting, walnut shell, ice etc. This is edle gunning and wire buffing. ese requirements are for all levels of blasting ('ligocetion and 'severe' for painting) estimated wall loss >2.5mm, mechanical engineration and recorded below.	voided whe usting – HF s also app ght' for furt eering app	enever to water, licable her roval is discontinuity (incl. for discontinuity)	here grit, for	s & gly	/col)	and
other practical options. ese requirements are for all forms of invasive bla net, sponge blasting, walnut shell, ice etc. This is edle gunning and wire buffing. ese requirements are for all levels of blasting ('lig bection and 'severe' for painting) estimated wall loss >2.5mm, mechanical engine uired and recorded below. e purposes of this item 'hydrocarbon duty' me	esting – HF s also app ght' for furt eering app eans gas	water, licable her roval is (incl. fo	grit, for uel ga :	s & gly	rcol)	and
net, sponge blasting, walnut shell, ice etc. This is edle gunning and wire buffing. ese requirements are for all levels of blasting ('ligocetion and 'severe' for painting) estimated wall loss >2.5mm, mechanical engine uired and recorded below. e purposes of this item 'hydrocarbon duty' me	s also app ght' for furt eering app eans gas	licable her roval is (incl. fo d wate	for	s & gly	/col)	and
pection and 'severe' for painting) restimated wall loss >2.5mm, mechanical engine uired and recorded below. repurposes of this item 'hydrocarbon duty' me	eering app	roval is (incl. fo d wate	uel ga	s & gly	/col)	and
estimated wall loss >2.5mm, mechanical engine uired and recorded below. e purposes of this item 'hydrocarbon duty' me	eans gas	(incl. fo	uel ga	s & gly	/col)	and
		d wate		s & gly	/col)	and
using marked up P&IDs:						
mhor (to be marked as drawing)	4		2		-	_
mber (to be marked on drawing) er (if applicable)	1	2	3	4	5	_
i (ii applicable) I Thickness (A)						_
aximum External Wall Loss (B)*						-
all Thickness: E stimated (= A - B) or M easured (e.g. 7.1, M))				 	-
? (Y/N)	,					-
nan 5 locations be identified for the one permit, a	n addition	al table	may b	ne adde	∍d, bi	ut will
ne signatures as below:		e:		_		
	Dat		l is req	luired.	For	
Signed:		pprova				
16		Signed:Dat		maximum wall loss > 2.5 mm, Mechanical Engineering approval is req		maximum wall loss > 2.5 mm, Mechanical Engineering approval is required. For

^{**} The Site Painting Supervisor is deemed a competent person to make the assessment of external wall loss. If they are not comfortable in making the assessment or have any doubts about whether the condition satisfies the requirement as stated just above - then an Integrity Engineer, Coatings Inspector or Mechanical Engineer should be asked to make the assessment.

Nater blasting				Y	N
	⁻ blasting involve pres High-Pressure water b	sures greater than 1,3 plasting?	80 bar or 20,000		
If Yes list n	ames of persons oper	rating UHP equipment			
		_			
Ensure UHF	unit or UHP crew ha	- ve medical alert cards	in unit or on		
•	e event of medical ev	•			
• Example of	Medical Warning card	d below:			
	A				
	∠!\ WAF	RNING			
IMPO	ORTANT MEDIC	CAL INFORMAT	TION		
11111	MEDIC	J/12 1111 011111111			
An injury caused by	hinh processro wateriete can be so	rious. In the event of any waterjet in	niury:		
	nigh pressure waterjets can be se	nous. In the event of any waterjet in	ijury.		
 Seek medica 	al attention immediately. Do not delay	1			
 Inform the do 	al attention immediately. Do not delay octor of the cause of the injury.				
 Inform the do 	octor of the cause of the injury.	being performed at the time of the acc	ident and the source		
 Inform the do Tell the physical 	octor of the cause of the injury. ician what type of waterjet work was		ident and the source		
Inform the do Tell the physical results and the physical results are results are results are results and the physical results are restimated are results are results are results are results are resu	octor of the cause of the injury. ician what type of waterjet work was i	being performed at the time of the acc	ident and the source		
Inform the do Tell the physical results and the physical results are results are results are results and the physical results are restimated are results are results are results are results are resu	octor of the cause of the injury. ician what type of waterjet work was i Medica WARNING!!!	al Alert	ident and the source		
 Inform the do Tell the physical 	Medica WARNING!!! An injury caused by high pressure waterjets can be serious. In the	al Alert IMPORTANT MEDICAL INFORMATION!	ident and the source		
Inform the do Tell the physical results and the physical results are results are results are results and the physical results are restimated are results are results are results are results are resu	Medica WARNING!!! An injury caused by high pressure waterjets can be serious. In the event of any waterjet injury: — Seek medical attention	al Alert IMPORTANT MEDICAL INFORMATION! READ THIS PLASTIC CARD AND KEEP IT IN	ident and the source		
Inform the do Tell the physical results and the physical results are results are results are results and the physical results are restimated are results are results are results are results are resu	Medica WARNING!!! An injury caused by high pressure waterjets can be serious. In the event of any waterjet injury: — Seek medical attention immediately. Do not delay! — Inform the doctor of the	IMPORTANT MEDICAL INFORMATION! READ THIS PLASTIC CARD AND KEEP IT IN YOUR WALLET. IN THE EVENT OF A WATERJET	ident and the source		
Inform the do Tell the physical results and the physical results are results are results are results and the physical results are restimated are results are results are results are results are resu	Medica WARNING!!! An injury caused by high pressure waterjets can be serious. In the event of any waterjet injury: — Seek medical attention immediately. Do not delay! — Inform the doctor of the cause of the injury.	IMPORTANT MEDICAL INFORMATION! READ THIS PLASTIC CARD AND KEEP IT IN YOUR WALLET. IN THE EVENT OF A WATERJET INJURY, SHOW THE CARD TO YOUR	ident and the source		
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 Inform the do Tell the physical 	Medica WARNING!!! An injury caused by high pressure waterjets can be serious. In the event of any waterjet injury: — Seek medical attention immediately. Do not delay! — Inform the doctor of the cause of the injury: — Show the doctor this card. — Tell the physician what type of waterjet project was being performed at the time of the accident and the	IMPORTANT MEDICAL INFORMATION! READ THIS PLASTIC CARD AND KEEP IT IN YOUR WALLET. IN THE EVENT OF A WATERJET INJURY, SHOW THE CARD TO YOUR DOCTOR. Distributed by. WaterJet Technology Asson- Industrial & Municipal Cheming Area, 965 Cites Street, Soile 1250, St. Losis, Mo 63101-5448, phons: (19411-1446, Ec. (1941)-1448,	ident and the source		
 Inform the do Tell the physical 	Medica WARNING!!! An injury caused by high pressure waterjets can be serious. In the event of any waterjet injury: — Seek medical attention immediately. Do not delay! — Inform the doctor of the cause of the injury. — Show the doctor this card. — Tell the physician what type of waterjet project was being performed at the time	IMPORTANT MEDICAL INFORMATION! READ THIS PLASTIC CARD AND KEEP IT IN YOUR WALLET. IN THE EVENT OF A WATERJET INJURY, SHOW THE CARD TO YOUR DOCTOR. Listifule by: WaterJuit Tachnology Assn. Industria & Municipal Cheming Assn. 905 Other Street, Suite 1200. St. Louis, Mo 6 5010-1448,	ident and the source		
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Inform the do Tell the physical the water.	Medica WARNING!!! An injury caused by high pressure waterjets can be serious. In the event of any waterjet injury: — Seek medical attention immediately. Do not delay! — Inform the doctor of the cause of the injury. — Show the doctor this card. — Tell the physician what type of waterjet project was being performed at the time of the accident and the source of the water.	IMPORTANT MEDICAL INFORMATION! READ THIS PLASTIC CARD AND KEEP IT IN YOUR WALLET. IN THE EVENT OF A WATERJET INJURY, SHOW THE CARD TO YOUR DOCTOR. Distributed by: Wildburld Technology Assn., 960 Other Street, Suble 1200. St. Louis, NO 5 5010-1448, phone: (114(2011-144), rec. (131(2)41-1448, e-minit wild-imc.@illo.org.)	ident and the source		
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		•	 11/7
9	Hoses are in good condition and within current certification period.		
10	Are fully extended whip checks in place across all flexible hose connections?		
11	Where a Ludecke coupling is connected directly into a pneumatic tool, it is done via an inline straight swivel (360°). Where a hose is connected directly into a pneumatic tool, it is done via a crimped dyna-swivel or similar universal joint. Refer Hose Fittings and Clamps WI-EP72.03-002		
12	All equipment has been checked thoroughly, all components in good order and the 'dead mans' handle is functioning.		

		Y	N	N/A
13	External metal parts of the cleaning, blasting and spraying equipment are bonded together, and unit electrically bonded to earth. Continuity test results have been recorded on permit ($<10\Omega$).			
14	Barriers and signs have been erected to prohibit passage of other personnel within the work areas?			
15	Shields and screens have been erected to protect passing personnel from stray grit and debris where necessary.			
16	If using air pressure to assist cleanup of sand and grit, a dead man device shall be fitted, or observer placed at isolation valve.			
17	List any additional eye protection and / or respiratory protection as agreed.			
The us contro operat The cothe site	ON TWO: se of non-Hazardous area rated engines in Zone 2 Area will be allowed with its in place: Initial and continuous gas testing, equipment is manned at all sion. Introls for use of non-zone rated engines in Non-Hazardous areas shall be a Permit Issuer on a case by case basis and documented by the Permit Apob Hazard Analysis.	times deteri	whi nine	le in ed by
PRIOR	TO COMMENCING TASK:			
		Zone	2	Non Haz
18	Indicate the area / zone the equipment is to be located in.]	
-	NOTE: This should be as far from the process as practical.		J	
	record at production			
19	Name the dedicated watchman who is standing by while the engine is running (if in Zone 2 area only): Name:	Y	N	N/A
20	A portable dry powder extinguisher is present at the engine site.			
21	Equipment has a current WOF / Certificate of Fitness as required.			
22	Equipment checked and found to be in good condition e.g. free from oil leaks			
SECTION	ON THREE:			
DDED/	ARATION:			
FILEF	ANATION.	V	N.	NI/A
23	All electrical equipment checked and found to be in good condition with a current test tag. Note these tags must be fitted by a registered electrician.	Y	N	N/A
24	An ELCB or RCD must be used.			
25	Cables run through a hazardous area are clearly identified as suitable for hazardous areas.			
26	Cables are adequately protected when external damage is possible e.g. crossing roadways.			