

Print Date: 29/11/19

Issue: 1

Work De	etails						
Site	Nufarm – Pipe Road	Date	18-10-2018		Permit to Work required:	Yes / No GWP:	‡
Plant/Area	Storage Tank Area – MIPA Isotainer Hi Level St	vitch I_LSH_0144					
Scope of Work	Remove and Check Condition of High Level Sw	ritch, Test and Calibration of Unit and	Reinstallation PM-1072				
	Name		Co	mpany Name or Nufarm Depar	tment		
ISEA Toom							
JSEA Team Members							
	UHF Radio: Unit 4						
Emergency Response	Telephone: Site Supervisor 0408-144-663						
Nesponse	Other:						
Safety C	ritical Controls & Bow Ties						
What are the Critical Con affected?	e Safety	Which MI Scenario? Los	ss Of Containment of MIPA		What are the Bow Ties that are being used?	R.0000338 MI 7B	
	ous Goods & Hazardous Substanc						
(Complete v	when chemical exposure is identified as a hazard Substance Name	and PPE Matrix to be attached-Refer	to section 2 of an SDS) Hazardous Health Effects			Listed on PPE Matrix	
			Vapor, Toxic if swallowed, Toxic in				
8787	Monoispropylamine	inhaled, Causes severe skin bui	rns and eye damage, Causes serious respiratory	eye damage, May Cause		YES	
JSEA A							
Highest residu	c associated with JSEA ual risk – this can only be determined after JSEA is completed. Please circle one	ssuer, Supervisor or HSE Team Approves	Shift Manager Approve	s Depart	tment Head Approves	Site M	anager Approves
	roved By:	Position of approving person:	Date	Approved:	Sign	ature of Approver:	

Work Env	Work Environment Energy		Work Process	Chemicals	Plant/Equipment	People
Site: Australia	Author: D Brown		Sign/Date:	1	Issue Date: July 2018	D4-15
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Potential Hazards associated with the activity or task Identify each of the hazards associated with the activity or task and the site-specific hazards by placing a tick (>) in the yes box if the hazard is present or potentially present and a tick (>) in the no box if not.



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		Yes	No			Yes	No			Yes	No			Yes	No		Yes	No		Yes	No
Entry/Exit – Acces	s/Egress		\boxtimes	G	as		\boxtimes	Wo	orking at Heights			Hazardous/Dangero	us Chemicals	\boxtimes		Elevated Work Platform		\boxtimes	Reduced Light		
Temp. Extremes/	Weather	Weight (i.e. Loaded pallets, storage tanks, silos) □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		S		\boxtimes	Planned LOC (Gas, Liquid, Solid)		\boxtimes	Work outside of 'normal' hours		\boxtimes									
Confined Spa	aces		\boxtimes		Stored Energy , Slings)			Sheet M	letal Work & Welding			Toxic Substa	ances	\boxtimes		Excavators		\boxtimes	Fatigue	\boxtimes	
Excavation	IS		\boxtimes	Wa	ater		\boxtimes	Hiç	gh Noise Levels			Inhalatio	n	\boxtimes		Plant Movement		\boxtimes	Stress		
Oxygen Atmosphe	eric Level		\boxtimes	Electri	city/HV		\boxtimes	So	caffold/Ladders			Skin/Eye Co	ontact	\boxtimes		LOTO/Valves		\boxtimes	Working alone/Lone Work		\boxtimes
Remote Site / Difficu	ult Rescue		\boxtimes	Electri	city/ LV		\boxtimes	Manual	Handling/Ergonomics		\boxtimes	Dust/Liquid/S	Solids		\boxtimes	Energized Plant		\boxtimes	Fitness for Work		\boxtimes
Near Road Mov	rement		\boxtimes	Hydraulio	Pressure		\boxtimes	H	Height Access			Contaminated	l Fluids			Rotating Equipment		\boxtimes	Multi Person Task		\boxtimes
Sharp Materials/0	Objects		\boxtimes	Compre	ssed Air		\boxtimes	Su	spended Loads			Fuels/Oil	ls		\boxtimes	Tools/Equipment	\boxtimes		Mundane Task		\boxtimes
Poor Lighting/Vi	isibility		\boxtimes	Radi	ation			C	Commissioning			Fumes/Vap	ours			Guarding		\boxtimes	Arduous Task		\boxtimes
Slips, Trips & I	Falls	\boxtimes		Ste	am		\boxtimes		SIMOPS			Contaminated soil/g	groundwater		\boxtimes	Temperature Extremes of Process Lines		\boxtimes	Breakdown Respons	e 🗆	\boxtimes
Vehicles/Peo	pple		\boxtimes	Oxy-Acetyl	ene Bottles			Wa	aste generation			Flammab	ole		\boxtimes	Cranes		\boxtimes	Worker new to site		\boxtimes
Erosion/Flora/F	auna		\boxtimes																Worker has not performed task in previous 12 months		\boxtimes
Personal Pro	otective required for	Equ the en	ipm tire tas	ent Requi	red e type. If certai	in PPE	is only	required fo	or certain steps, this F	PPE mu	st be liste	ed as the controls for t	that step. Stating	refer	to PPE I	Matrix is not acceptable.					
Site PPE Requirements	Safet Footwe (AS/NZ 22	y ear	Saf	fety Eyewear AS/NZ 1801)	Face Shield			oves	Fall Restraint / Arrest		aring	Dust Mask	Respirator (Positive & Negative		Suit	Other		Othe	r ()ther	
R							T.								Ħ						
\boxtimes																					
Type: Site PPE	Type:		Туре	: 	Type:	T	ype:		Туре:	Type:		Туре:	Type:	Тур	e:	Туре:	Type:		Туре:		
Working at F Greater than 2 meters																					
Potential Hazard	Prompt L	ist										Risk Reduction	Methods								
Site: Australia				thor: D Brown								e Date: July 2018							Page 2 of 8		
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	Vas	No		Vos	No		Yas	No		Yes	No
Ground Conditions (uneven, wet)	Tes	NO	Traffic Management	Tes	NO	Environmental conditions (Weather)	Tes	NO	Working on the ground or on a solid construction (With a permanently fixed means of access)	Tes	NO 🖂
Ground Conditions (discreti, wet)			Traine management	_		Ziviioimonai conditione (vication)			Troining on the ground of on a solid solidation (vital a permanently lixed medits of decess)		
Swing Fall		\boxtimes	Overhead Services		\boxtimes	Anchor Rating			Passive Fall Prevention Device – includes scaffolds, mobile platforms, EWPs (incl fixed work platforms, scissor lifts, cherry pickers, step platforms, building maintenance units and forklift mancages or work boxes), safety mesh, purlin trolleys & guard rails/edge or perimeter protection systems.		
Live electrical equipment		\boxtimes	Surrounding Operation		\boxtimes	Hazardous Piping in the area			Work Positioning System - e.g. industrial rope access system or travel restraint system.		\boxtimes
Freefall Distance			Crushing Hazard			Other:			Fall Arrest System – safety net, catch platform, interconnecting elements most typically an engineered anchor point, a safety harness and a lanyard		
	<u> </u>	ı		ı	ı		1	1	Ladders (fixed or platform) and Administration Controls – refer to Safe Use of Ladders package for more information		\boxtimes
									Spotter Required		\boxtimes
									Barricading Required		\boxtimes
Emergency Response Plan An Emergency Response Plan mus	st be co	mplete	d for any works with a fall risk of grea	ater thar	n 2m oi	r when a harness is required to be wo	orn. Th	nis may	include Radios. Support Persons, First Aid Response and other appropriate skills such as EWP operations, PPE, etc.		
N/A											
JSEA Work Method											
Job Step Provide a step by step breakdown of	the tasl	(/Risks hazards associated with the step			Controls Measures that need to be taken to eliminate or minimise the risk associated with each hazard Risk Rating By Who	al whe	en
Site: Australia		Auth	nor: D Brown					SSUE	Date: July 2018		$\overline{}$
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LL		1		TI	his is a	an uncontrolled copy and is valid fo	r two (s only from the Print Date that appears above.		



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			Low, Medium, Significant or High	
Review JSEA, Apply LOTO (including instrument loop power) and setup barricading around work area. Issue a Permit To Work and conduct a Take 5	Chemical exposure, Burns, skin irritation	Wear chemical resistant gloves while applying LOTO	Low	Permit Issuer/Permit Acceptor
	Trip, slip on uneven work surfaces and poor access	Be aware of surroundings, especially around bunds and stairs, ladders and steps, and ground level piping	Low	Permit Issuer/Permit Acceptor
	Pedestrian traffic	Barricade the work area and alert all workers/operators in the area that high risk line breaks are going to be taken place in the barricaded area	Low	Permit Issuer/Permit Acceptor
			Choose an item.	
Disconnect the cables from all instruments to be removed	Chemical exposure, Burns, skin irritation	Wear chemical resistant gloves while doing task	Low	Permit Issuer/Permit Acceptor
	Manual handling, personal injury/strain	use the correct tools for the job and do the job at a slow steady pace and maintain a comfortable working posture	Low	Permit Issuer/Permit Acceptor
			Choose an item.	
Put on PPE as per PPE matrix	Cuts or rips in PPE, Chemical exposure / inhalation	Ensure that your PPE is up to the best standard which means, no tears, rips etc.	Low	Permit Issuer/Permit Acceptor
	Weather Conditions If Hot – Heat Fatigue	Drink Plenty of water leading up to the job, remain hydrated and stop every 20 minutes for a break while in full PPE Hydrolyte in Store for use also	Low	Permit Issuer/Permit Acceptor / Task Performer
			Choose an item.	
Climb into position to access the instruments	Trip or Fall	Be aware of surroundings, especially around bunds and stairs, ladders and steps, and ground level piping, maintain 3 points of contact	Low	Permit Issuer/Permit Acceptor
			Choose an item.	
Perform the line break, remove the instrument and install cap / plug / blank where required.	Chemical exposure, Chemical Burns, Skin Irritation, Death	The person doing the line break must be line break trained and authorised and be line break supervised by the appropriate personnel. Supervisor to be present until worker removes the instrument. Maintain LOTO, Barricading & PPE.	Medium	Line break supervisor/Permit Acceptor / Task Performer
	Trip, slip on uneven worksurface and poor access Trip or Fall Injury.	Be aware of surroundings, especially around bunds and stairs, ladders and steps, and ground level piping, maintain 3 points of contact	Low	Permit Issuer/Permit Acceptor
	Manual handling, personal injury/strain	use the correct tools for the job and do the job at a slow steady pace and maintain a comfortable working posture	Low	Permit Issuer/Permit Acceptor

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JSEA Form

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				Choose an	
				item.	
Remove PPE	Chemical exposure, Chemical Burns, Skin Irritation	on	Wear chemical resistant gloves	Low	Permit Acceptor / Task Performer
				Choose an	
				item. Choose an	
				item.	
Clean, wash the instrument and take it back to the workshop for calibration / inspection	Trip, slip on uneven worksurface and poor acces	s	Be aware of surroundings, especially around bunds and stairs, ladders and steps, and ground level piping	Low	Line break supervisor/Permit Acceptor / Task Performer
	Manual handling - personnel injury/strain		use the correct manual handling techniques	Low	Permit Acceptor / Task Performer
	Chemical exposure, burns, skin irritation		Wear chemical resistant gloves	Low	Permit Acceptor / Task Performer
				Choose an item.	
Return Instruments to Plant	Trip, slip on uneven worksurface and poor acces	s	Be aware of surroundings, especially around bunds and stairs, ladders and steps, and ground level piping	Low	Line break supervisor/Permit Acceptor / Task Performer
	Manual handling - personnel injury/strain		use the correct manual handling techniques	Low	Permit Acceptor / Task Performer
				Choose an item.	
Put on PPE as per PPE matrix	Cuts or rips in PPE, Chemical exposure / inhalati	on	Ensure that your PPE is up to the best standard which means, no tears, rips etc.	Low	Line break supervisor/Permit Acceptor / Task Performer
	Weather Conditions If Hot – Heat Fatigue		Drink Plenty of water leading up to the job, remain hydrated and stop every 20 minutes for a break while in full PPE Hydrolyte in Store for use also	Low	Line break supervisor/Permit Acceptor / Task Performer
				Choose an item.	
Perform the line break, remove the instrument and install cap / plug / blank where required.	Chemical exposure, Chemical Burns, Skin Irritation	on, Death	The person doing the line break must be line break trained and authorised and be line break supervised by the appropriate personnel. Supervisor to be present until worker removes the instrument. Maintain LOTO, Barricading & PPE.	Medium	Line break supervisor/Permit Acceptor / Task Performer
	Trip, slip on uneven worksurface and poor acces Trip or Fall Injury.	s	Be aware of surroundings, especially around bunds and stairs, ladders and steps, and ground level piping, maintain 3 points of contact	Low	Line break supervisor/Permit Acceptor / Task Performer
	Manual handling, personal injury/strain		use the correct tools for the job and do the job at a slow steady pace and maintain a comfortable working posture	Low	Line break supervisor/Permit
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							Acceptor / Task Performer	
						Choose an item.		
Remove PPE		Chemical exposure, Chemical Burns, Skin Irritat	ion	Wear chemica	I resistant gloves	Low	Permit Acceptor / Task Performer	
						Choose an		
		 				item. Choose an		
						item.		
Sign off Permit To Work, Remove LOTO area	and Barricading from around your work	Chemical exposure, burns, skin irritation		Wear chemica	I resistant gloves while removing LOTO	Low	Permit Acceptor / Task Performer	
		Trip, slip on uneven work surfaces and poor acc			urroundings, especially around bunds ar and steps, and ground level piping	Low	Permit Acceptor / Task Performer	
						Choose an item.		
Clean up and pack away tools and equipr	ment	Chemical exposure, burns, skin irritation		Wear chemica	I resistant gloves while cleaning up	Low	Permit Acceptor / Task Performer	
		Trip, slip on uneven work surfaces and poor acc			urroundings, especially around bunds ar and steps, and ground level piping	Low	Permit Acceptor / Task Performer	
						Choose an		
						item. Choose an		
						item.		
						Choose an		
						item.		
						Choose an item.		
		+				Choose an		
						item.		
Return to Service Provide a step by step breakdown of the task		Hazards/Risks List all the hazards associated with the step			need to be taken to eliminate or minimise the with each hazard	Risk Rating Low, Medium, Significant or High	By Who	Initial when done
After De-Isolation – Turn on all services w	which will allowed the item to be tested	Product Leakage / Product Flowing Threw Device			ea is clear and have watcher on Two wa	y Low	Permit Acceptor /	
in a safe state		Troduct Leakage / Troduct Towning Tillew Devik	,,,	radio to Contro	ol Room for Testing Deivce		Task Performer	
III a sale state		Troduct Leakage / Froduct Frowing Timew Devic			losed to product will not flow	Low	Permit Acceptor / Task Performer	
III a Sale State		Troduct Leakage / Froduct Frowning Timew Devic					Permit Acceptor /	
Sign on for Work		Troduct Leakage / Froduct Frowning Trillew Devic				Low Choose an	Permit Acceptor /	
	itions of this JSEA	Troduct Leakage / Froduct Frowning Timew Device				Low Choose an	Permit Acceptor /	
Sign on for Work		Date				Low Choose an item.	Permit Acceptor /	
Sign on for Work I understand and agree to the cond				Leave Valve c	losed to product will not flow	Low Choose an item.	Permit Acceptor / Task Performer	ıf 8



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Instrument & Electrical Tech			

Risk Man	agement Tool										
L	ikelihood	Co	onsequence							Risk A	cceptance
Category	Definition	Category	Definition	Consequence	(B) Very Likley	(C) Likley	(D) Occasional	(E) Unlikley	(F) Very Unlikley	Category	Risk Acceptance Requirements
В	Very Likley (occurs on a daily basis)	2	Major - Fatality or Life Threatening Injuries	(2) Major	HIGH	HIGH	HIGH	HIGH	SIGNIFICANT	нібн	Site Manager
С	Likely (expected to occur within 6 months)	3	Severe - Pemanent Disabilities	(3) Servere	HIGH	HIGH	SIGNIFICANT	SIGNIFICANT	MEDIUM	SIGNIFICANT	Department Manager
D	Occasional (Excepted to occur within the next year)	4	Serious - Medical Treatment or Lost Time Injury	(4) Serious	HIGH	SIGNIFICANT	MEDIUM	MEDIUM	LOW	MEDIUM	Shift Manager
E	Unlikely (unlikley to occur within the next 5 years)	5	Moderate - First Aid Injury	(5) Moderate	SIGNIFICANT	MEDIUM	MEDIUM	LOW	LOW	LOW	Permit Issuer, Supervisor or HSE Team Member
F	Very Unlikely (unlikely to occur within the next 100 years)	6	Report Only Injury, Neart Miss, Close Call or UIR	(6) Minor	MEDIUM	MEDIUM	LOW	LOW	LOW		

Table of Revisions

Rev. No.	Date Revised	Revised By	Revisions Made
1	July 2018	Debra Brown	Reformatted to Word version, revised corporate risk matrix inserted. Approved by MOC 6974

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