

Employer: **Enemalta Plc**Date: **08 / 06 /2017**

Time:


Venue:




Job ref: **MPS-MS-
transformers – Part 2**Issue date: **08/06/2017**


Works Method Statement	02	Area	General		
Description of Works	Cleaning, Decontamination, Dismantling and Carting away of Transformer Units				

Site	
	General

The report should be read in conjunction with preliminary reports already submitted where all relevant information on Health and Safety and established legal notices are supplied.

Works Method Statement			
Item	Description	Action	Target Date
1.0	DESCRIPTION OF AREA / STRUCTURE / Elements		
	The elements consist of transformer units located in Unit 8 Block at MPS. Following the removal and relocation of the transformers (methodology covered by MS Transformers Part 01), the transformers will be placed in a bunded area within the Marsa Power Station.		
	Outline Description of Transformer Elements: (one transformer was taken apart inside the bunded area in order to present its separate elements and outline the end result)		
	The transformer consists of:		
A	A central container which houses the main elements (copper and iron		
			

B	Fins situated on the each side of the transformer		
			
C	Core Elements houses inside Item A above		
			
D	Upper Oil Container		
			
E	Connection Box at the back of the transformer		
2.0	SAFETY / ENVIRONMENTAL PRECAUTIONS PRIOR TO WORKS		
	<p>During the whole process the following issues need to be taken into consideration:</p> <ul style="list-style-type: none"> - Personnel are wearing appropriate PPE covering all areas of the body - The area is enclosed and only authorised personnel are allowed within the working parameters of the site. - Environmental monitors will be overseeing the works. As such, no element will be carted off site without prior consent of both the environmental monitors from Enemalta and the contractor. - CO₂ and foam fire extinguishers were placed along the perimeter of the bounded area for emergency use. 		
	During the cleaning and dismantling stage, PTMatic will be on site on standby mode with all the necessary oil spill and any other equipment		

	necessary to contain and clean any spills which might occur, although all cleaning works will be carried out within a bounded area.		
3.0	WORKS METHODOLOGY		
	All works will be carried out within a bunded area with a sump, thus in the occurrence of minor oil spills, these can be easily pumped out of the sump using mechanical pump.		
	Stage 01: Separation of Elements		
	Prior to starting of works, the elements will be lifted using mechanical lifting equipment and tilted in order to drain any remaining oils by gravity.		
	In order to create the right working area, all elements mentioned in Item 1 above will be taken apart using both mechanical equipment and also hot cut. This will enable all items to be opened and inspected internally.		
	As can be clearly seen in the underlying photos, the empty containers are devoid of any loose / liquid oils and any oils are only present along the internal surface. These would be cleaned using absorbent pads which in turn will be taken off site using appropriate codes for absorbent pads as outlined in the HAZMAT.		
	Stage 2: Opening of elements		
	Following the dis-assembly of the elements, each element will be treated according to its level of cleanliness and/or to its level of difficulty in rendering clean.		
	<ol style="list-style-type: none"> 1. The central core will be opened up using hot cut. Any remnant oil stains along the internal faces will be scraped off following which the face will be cleaned using a rag. 		
		Clean internal core area	
	<ol style="list-style-type: none"> 2. The oil containers along with the connection box will first be infilled with water which is then drained out into IBCs marked "OILY WATERS" to be taken off site using oily water codes as per Hazmat. Following the draining procedure, these containers will be hot cut into two parts. The element will be cleaned using same methodology outlined in point 1 above. 3. As can be seen from the below photo, the fins are too narrow to clean using normal procedure. As such, in view that the internal area of the fins is devoid of any liquid oils, (vide photo below) the element will be cold cut using mechanical equipment into smaller pieces and transported off site to an appropriate location. 		
4.0	TIMEFRAMES		
	Half a day per element		

AREA Photographic survey			
Ref	Photo	Area / Zone	Status
	A detailed photographic survey of the opened transformers will be carried out for posterity purposes.		

Other Works related					
Ref	Area / Zone	Description	Completion date	Notification	Status
		Cleaning of the containment (Bunded Area) following draining process			
		Cutting of elements using mechanical means once all elements are deemed adequately decontaminated.			

Further information required from entities				
Ref	Area / Zone	Description	Notification	Status
		Closing off of working area		
		Spill kits for any spillages		
		Fire extinguishers around the working area		

Personnel / machinery earmarked for use (or on standby)

Zone	Area	Description	Number	
		Mechanical Shovel (pinza)	1	
		Fire extinguishers (CO2)		
		First Aid Box		
		Oil absorbents		
		Helpers	4-5	
		TOTAL		

Attachments:☐

Drawings (specify)

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Other (specify)

MS prepared by:

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Approved:

Y / N