

Environment and Resources Authority Report



1. Application details:

1.1	Applicable Policy	<p>Environment Protection Act (CAP. 549)</p> <p>S.L. 549.56 Large Combustion Plant Regulations, 2013 [Legal Notice 172 of 2010 as amended]</p> <p>S.L. 549.77 Industrial Emissions (Integrated Pollution Prevention and Control) Regulations, 2013 [Legal Notice 10 of 2013 as amended]</p> <p>S.L. 549.78 Industrial Emissions (Large Combustion Plants) Regulations 2013 [Legal Notice 11 of 2013 as amended]</p>
1.2	Press dates	20 th August 2017
1.3	Application type	Partial Surrender of IPPC Permit
1.4	Applicant	<p><i>Ing. Frederick Azzopardi</i></p> <p><i>o.b.o Enemalta plc.</i></p>
1.5	Date of receipt of consolidated application	10 July 2017
1.6	Approved documents	<p><i>Application document is available on the website of the Environment & Resources Authority on the following link:</i></p> <p><i>http://era.org.mt/en/Pages/IPPC-Public-Consultation.aspx</i></p>
1.7	Proposal	<p>The decommissioning demolition and dismantling of various structures as per IPPC application received on 04 May 2017 up to slab level and to operate an installation for the operation of an installation carrying out the following activity:</p> <p><i>Activity 1.1 in Schedule 1 of the Industrial Emissions (IPPC) Regulations (S.L. 549.77) (“the Industrial Emissions (IPPC) Regulations”), to the extent authorised by the Permit, i.e.</i></p> <p><i>“Combustion installations with a rated thermal input of 50 MW or more”.</i></p>
1.8	Location	<p><i>Marsa Power Station,</i> <i>Enemalta plc.</i> <i>Church Wharf,</i> <i>Marsa MRS 1000</i></p>

2. Background

2.1	Policy Context	<p>Environment Protection Act (CAP. 549)</p> <p>S.L. 549.77 requires installations carrying out activities as listed in section 1.1 of Schedule 1 to apply and obtain an IPPC permit for operations.</p> <p><i>In the case of this facility, operations consist of the “Combustion installations with a rated thermal input of 50 MW or more”.</i></p> <p>S.L. 549.77 also requires installations carrying out the abovementioned activities to take all necessary actions aimed at the removal, control, containment and reduction of relevant hazardous substances, so that the site ceases to pose any significant risk to human health and the environment due to the contamination of soil and water as a result of the permitted activities.</p>																																							
2.2	Justification for Application	Application for partial surrender of the IPPC permit IP 0003/07/C submitted.																																							
2.3	Permit History	<p>A summary of the IP permit processing is indicated below</p> <table border="1" data-bbox="411 871 1361 2029"> <thead> <tr> <th data-bbox="419 875 738 913">Detail</th> <th data-bbox="738 875 1046 913">Date</th> <th data-bbox="1046 875 1353 913">Comment</th> </tr> </thead> <tbody> <tr> <td data-bbox="419 913 738 1010"><i>Application IP 0003/07</i></td> <td data-bbox="738 913 1046 1010"><i>Received 02 February 2007</i></td> <td data-bbox="1046 913 1353 1010">Not 'duly made'</td> </tr> <tr> <td data-bbox="419 1010 738 1128"><i>Response to request for information</i></td> <td data-bbox="738 1010 1046 1128"><i>Request dated 13 March 2007 and 23 March 2007</i></td> <td data-bbox="1046 1010 1353 1128"><i>Response dated 11 April 2007 and 25 June 2007</i></td> </tr> <tr> <td data-bbox="419 1128 738 1225"><i>Response to request for information</i></td> <td data-bbox="738 1128 1046 1225"><i>Request dated 24 October 2007</i></td> <td data-bbox="1046 1128 1353 1225"><i>Partial response dated 25 July 2008</i></td> </tr> <tr> <td data-bbox="419 1225 738 1285"><i>Application 'duly made'</i></td> <td data-bbox="738 1225 1046 1285"><i>24 October 2007</i></td> <td data-bbox="1046 1225 1353 1285"></td> </tr> <tr> <td data-bbox="419 1285 738 1382"><i>Consolidated version</i></td> <td data-bbox="738 1285 1046 1382"><i>Received on 21 January 2009</i></td> <td data-bbox="1046 1285 1353 1382"></td> </tr> <tr> <td data-bbox="419 1382 738 1478"><i>Public consultation</i></td> <td data-bbox="738 1382 1046 1478"><i>Commenced on 22 January 2009</i></td> <td data-bbox="1046 1382 1353 1478"><i>Concluded on 21 February 2009</i></td> </tr> <tr> <td data-bbox="419 1478 738 1574"><i>Permit determined</i></td> <td data-bbox="738 1478 1046 1574"><i>26 March 2009</i></td> <td data-bbox="1046 1478 1353 1574"><i>Reconsideration: 13 August 2009</i></td> </tr> <tr> <td data-bbox="419 1574 738 1635"><i>Permit issued</i></td> <td data-bbox="738 1574 1046 1635"><i>29 March 2010</i></td> <td data-bbox="1046 1574 1353 1635"></td> </tr> <tr> <td data-bbox="419 1635 738 1731"><i>Request for minor variation</i></td> <td data-bbox="738 1635 1046 1731"><i>Received on 21 April 2014</i></td> <td data-bbox="1046 1635 1353 1731"><i>To amend site boundary</i></td> </tr> <tr> <td data-bbox="419 1731 738 1827"><i>Permit Amendment determined</i></td> <td data-bbox="738 1731 1046 1827"><i>26 May 2014</i></td> <td data-bbox="1046 1731 1353 1827"></td> </tr> <tr> <td data-bbox="419 1827 738 1924"><i>Permit Amendment Issued</i></td> <td data-bbox="738 1827 1046 1924"><i>26 May 2014</i></td> <td data-bbox="1046 1827 1353 1924"></td> </tr> <tr> <td data-bbox="419 1924 738 2029"><i>Application for partial surrender</i></td> <td data-bbox="738 1924 1046 2029"><i>Received 10 November 2014</i></td> <td data-bbox="1046 1924 1353 2029"><i>Demolition of Tanks 1, 2 and 6, Chimneys 1 (MPS1) and 3 ('A' Station) and the</i></td> </tr> </tbody> </table>	Detail	Date	Comment	<i>Application IP 0003/07</i>	<i>Received 02 February 2007</i>	Not 'duly made'	<i>Response to request for information</i>	<i>Request dated 13 March 2007 and 23 March 2007</i>	<i>Response dated 11 April 2007 and 25 June 2007</i>	<i>Response to request for information</i>	<i>Request dated 24 October 2007</i>	<i>Partial response dated 25 July 2008</i>	<i>Application 'duly made'</i>	<i>24 October 2007</i>		<i>Consolidated version</i>	<i>Received on 21 January 2009</i>		<i>Public consultation</i>	<i>Commenced on 22 January 2009</i>	<i>Concluded on 21 February 2009</i>	<i>Permit determined</i>	<i>26 March 2009</i>	<i>Reconsideration: 13 August 2009</i>	<i>Permit issued</i>	<i>29 March 2010</i>		<i>Request for minor variation</i>	<i>Received on 21 April 2014</i>	<i>To amend site boundary</i>	<i>Permit Amendment determined</i>	<i>26 May 2014</i>		<i>Permit Amendment Issued</i>	<i>26 May 2014</i>		<i>Application for partial surrender</i>	<i>Received 10 November 2014</i>	<i>Demolition of Tanks 1, 2 and 6, Chimneys 1 (MPS1) and 3 ('A' Station) and the</i>
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				dismantling of 2 degassing tower structures.
		Consolidated version	Received on 24 February 2015	
		Public Consultation	Commenced on 28 February 2015	Concluded on 29 March 2015
		Permit Determined	21 May 2015	
		Permit Issued	11 June 2015	
		Application for partial surrender	29 April 2016	
		Consolidated version	10 July 2017	
		Public Consultation	Commenced on 12 July 2017	Concluded on 26 July 2017
2.4	Compliance History	<p>Following the issue of Permit B for the demolition of 2 chimneys, 3 tanks and 2 degassing tower structures, works commenced immediately upon issue of the permit with certain deviations from the proposed works method statements submitted as part of the IPPC application. ERA halted works on site pending the resolution of outstanding matters and once resolved works continued on site under ERA's supervision.</p> <p>Certain wastes generated from the structures permitted for demolition under permit B remain on site pending the submission of test results for characterization prior to removal.</p> <p>Enemalta had requested ERA on three separate occasions to issue clearances to allow certain preparatory works for. the dismantling of structures in particular areas of the power station</p> <p>These requests were limited to non hazardous structures with the exception of draining of HFO and lubricating oil lines which were anyhow carried out as part of the normal operational procedures.</p> <p>These requests were approved by the ERA and were subject to specific conditions.</p> <p>An application for partial surrender was submitted by Enemalta on 29th April 2016. Review of the hazardous material sampling plan (HAZMAT) was carried out so as to enable the operator to initiate testing of the various constituents of the structures to be demolished.</p> <p>In a letter dated 11th August 2016 Enemalta informed ERA that the permitted preparatory works had been executed and requested ERA to extend the scope of the preparatory works clearance on auxiliary equipment associated with boilers 3 and 4 and other hazardous equipment. This request was not accepted ERA.. Notwithstanding certain dismantling works were undertaken. In view of this, ERA had requested Enemalta to provide information regarding all deviations from permitted activities.. To date this information has not been completely provided by the operator.</p> <p>Enemalta subsequently provided ERA with a document indicating all deviations on 21st October 2016 which was again amended with additional works on 30th</p>		

March 2017. On 30th March 2017 Enemalta had also submitted an additional document explaining which structures would remain on site and thus be considered as part of a revised IPPC application. It is to be noted that during this phase Enemalta cooperated with ERA so as to ensure that the dismantling of the chimney that was being undertaken at that time followed appropriate methodologies to the satisfaction of ERA..

A number of revisions to the IPPC application were submitted between May and June 2017, which were all duly processed by ERA. A consolidated application was submitted on 10th July 2017 following internal and external consultation. A public consultation was carried out between 12th and 26th July 2017.

In terms of annual reporting

AER 2015 (Reporting year 1st January 2014 to 31st December 2014) was submitted late on 10th September 2015

AER 2016 ((Reporting year 1st January 2015 to 31st December 2015) was submitted late on 30th June 2016 following the granting of an extension to the deadline by ERA

AER 2017 (Reporting year 1st January 2016 to 31st December 2016) was submitted on time on 30th June 2016 following the granting of extension to the deadline by ERA in the previous year.

Data gathered by the installation for reporting purposes from 1st January 2017 until 25th August 2018 will be submitted as part of the 2018 AER by 30th June 2018.

2.5	Planning History	<i>PA file</i>	Title	Date of Issue
		PA 3789/92	application to construct canteen, clinic, guard room and garages	28 July 1993
		PA 4516/99	full development application to construct security guardroom at Marsa Power Station [Inside power station complex Marsa.	22 September 2000
		PA 1071/01	full development application to construct switchgear room.	3 August 2001
		PA 2936/04	full development application to carry out extension of existing offices.	8 November 2004
		PA 3908/08	full development application to carry out minor internal alterations, installation of lift and modifications to main entrance.	10 December 2007
		PA 4968/08	full development application to construct a 132KV distribution centre.	21 January 2014
		PA 3440/09	renewal development application to carry out extension of offices.	19 February 2011
		PA 5543/09	full development application to construct district office at Marsa Power Station.	11 September, 2012
		PA 2968/13	amended application for the excavation of an underground tunnel from Marsa power station to	Pending

			<i>Qormi, and the temporary use of working area at Marsa and Qormi</i>	
		<i>PA 3349/14</i>	<i>To decommission, dismantle and demolish Marsa Power Station</i>	<i>2 April 2015</i>
		<i>DN 1655/14</i>	<i>Development Notification Order to demolish chimneys and tanks at Marsa Power Station.</i>	<i>7 November 2014</i>

3. Non Technical Summary of Activities

Proposed activities

3.1	Activity listed in Schedule 1 of the Industrial Emissions (IPPC) Regulations / Associated Activity	Description of specified activity	Limits of specified activity
	Section 1.1: Combustion installations with a rated thermal input exceeding 50 MW	Generation of electrical energy through the combustion of gasoil.	From receipt of fuel to delivery of utility.
	Associated activity of fuel handling and storage	Handling and storage of gas oil	From receipt of the fuel to storage in tanks and combustion in the combustion plant
	Associated activity of utilities	Sea water pre-treatment plant.	From intake of sea water to delivery of utility.
	Associated activity of storage, treatment and disposal/recycling of waste materials	Handling, storage, treatment and disposal/recovery of wastes from installation.	From generation of waste to disposal or recycling onsite or offsite.
	Associated activity of maintenance	Maintenance carried out in any workshop in the installation.	From maintenance activity to appropriate recovery/ disposal of any wastes created.
	Other	Decommissioning, demolition and dismantling of the structures outlines in the IPPC application submitted on July 2017	From decommissioning and demolition as per approved method statements to the appropriate disposal/ recovery of resulting waste streams.
3.2	Applicable BREFs	<p><i>Best available techniques (BAT) specified in the BREF for Large combustion plants (published July 2006);</i></p> <p><i>Best available techniques (BAT) specified in the BREF for emissions from storage (published July 2006);</i></p> <p><i>Best available techniques (BAT) specified in the BREF for industrial cooling systems (published December 2001).</i></p>	

<p>3.2</p>	<p>Proposed Works Method Statement</p>	<p>Chimney 2</p> <p>Situated in Zone 4, the structure consists of a cast in situ reinforced concrete chimney with a height of circa 40m and a base diameter of circa 6m.</p> <p>The chimney consists in section of:</p> <ul style="list-style-type: none"> - An external skin of reinforced concrete, - An internal steel plate - Insulation fibreglass and fire bricks sandwiched between the two skins above. <p>Water will be sprayed in order to make sure that any dust is wetted immediately and limit the dispersion to the minimum possible.</p> <p>Works will commence firstly on the removal of the internal skin steel plate which will be removed through hotworks. Once on the ground, the steel plate will be cleaned of any insulation attached to it, insulation which would be tested for contaminants by our consulting monitors. Once cleaned, the steel plates will be shear cut on site and carted off to an adequate facility. Following the removal of the steel plate, the fire bricks will be removed using same personnel on man cage, which bricks will be made to fall on the internal area of the chimney. In view of the limited access, these bricks will be removed and stored in a bunded area following demolition. The bricks will be cleaned and tested for contamination and once test results are out, an adequate carting off methodology would be presented.</p> <p>Once all bricks have been removed, the FDS (Fly Demolition System) technology will be used.</p>
		<p>Chimney 4</p> <p>Situated in Zone 5, the structure consists of a cast in situ reinforced concrete chimney with a height of circa 81m and a base diameter of circa 6m.</p> <p>The sprayed water that condenses will be absorbed by the sand layer at the base of the chimney. This damps sand layer will be disposed of as hazardous waste. No water shall be allowed to flow to the sea. An environmental monitor will be overseeing the works throughout the whole process.</p> <p>Works will commence firstly on the removal of the internal skin steel plate which will be removed through hot works. Once on the ground, the steel plate will be cleaned of any insulation attached to it, insulation which would be tested for contaminants by our consulting monitors. Once cleaned, the steel plates will be shear cut on site and carted off to an adequate facility. Following the removal of the steel plate, the fire bricks will be removed using same personnel on man cage, which bricks will be made to fall on the internal area of the chimney. In view of the limited access, these bricks will be removed and stored in a bunded area following demolition. The bricks will be cleaned and tested for contamination and once test results are out, an adequate carting off methodology would be presented.</p>

The last 25m of chimney will be removed through the use of sheer cutting equipment which is capable of cutting through reinforced concrete. Again, same precautions mentioned above, both in terms of H&S and environmental will be taken during the works.

Evaporator

Last remaining evaporator (1 out of 2) and the related sea water screen house will be removed. Evaporator unit is situated within the limits of Zone 5. It consists of a two distinct sets of evaporators sitting on a concrete plinth which however only one will be removed. The structure is connected to the ground not only through a steel structure but also through several piping systems. The sea water screen house which is situated at the back of the evaporators. This unit consists of a rotor situated partly underground level and is entirely made of steel.

HFO pipeline

Any remaining oil will be heated until it can reach a fluid state, which will then be pumped out at specific outlets. The pipes will be cleaned prior to dismantling.

HFO Tanks 3,4 and 5

HFO tanks 3 & 4 have already been cleaned and now will be dismantled as part of the dismantling operations.

Tank 5 will be emptied, cleaned and then dismantled.

Switch gear

The switchgears and panels main components consist mainly of:

1. Metal casings on the external cover
2. Oil bath
3. Solenoids
4. Springs
5. Electrical components (WEEE)

The switchgears are located all over the MPS and differ in make and composition. Following the removal of any asbestos containing material and hazardous oils, the switchgears will be completely stripped of any WEEE prior to carting away.

Sludge Tank

Contains remnants from the HFO tank cleaning procedure carried out in 2015 on tanks 1 and 2. The tank measures circa 6.1m in height and around 10.7m in diameter with a maximum capacity of circa 550m³ having inspected the tank it seems to be around 80% full thus estimated amount of waste is circa 440m³. Once the sludge is removed the tanks will be cut prior to dismantling.

		<p>Transformers</p> <p>Removal of remaining transformers in Unit 8 Block at MPS, entails decontamination prior to dismantling and carting away.</p> <hr/> <p>Turbine Hall 8</p> <p>After all the equipment inside Turbine Hall 8 are removed, the outer structure of turbine hall will be demolished leaving the concrete blocks as standalone structures to be scarified and consequently demolished afterwards</p> <hr/> <p>Turbine Hall Blocks</p> <p>The structure consists of 5 concrete plinths (Turbine Hall 3-7), prior to the demolition any surface contamination will be scraped off using the appropriate mechanical tools prior to any demolition works being carried out.</p>
3.4	<p>Proposed emissions and mitigation during the decommissioning, dismantling and demolition process.</p>	<p>Timeline of activities</p> <p>The Scheduled dismantling timeline must be strictly adhered to. Any deviations must be notified to ERA.</p> <hr/> <p>Emissions to the Air</p> <p>Dust abatement provisions will be in place during the demolition of the wind shield (Chimney) through the use of a fog canon. No other probable emissions are envisioned are envisioned for the other dismantling operations.</p> <hr/> <p>Emissions to the sewer</p> <p>No discharges to the sewer are allowed. The operator is to ensure that any wash water generated as part of the decontamination works is not discharged into the sewerage network unless specifically authorized by WSC.</p> <hr/> <p>Emissions to the surface waters and groundwaters</p> <p>No emissions to surface and groundwater are allowed.</p> <p>Any runoff shall be diverted and /or intercepted through the use of adequately sized pumps / or oil water interceptors so as to avoid contamination to land and the coastal zone by mud, dust, debris, oils and fuels. BAT must be employed to ensure the proposed works results in the least possible damage and disturbance to the surrounding coastal zone and sea.</p> <p>Following dismantling operations, the Authority may request the temporary sealing of exposed substrate.</p> <hr/> <p>Emissions to land</p> <p>No emissions to land are allowed.</p> <hr/> <p>Noise and vibration</p>

		Existing conditions in the permit will be applied for the demolition process.
		<p>Waste Management</p> <p>Detailed waste management considerations are being dealt with through the improvement programme of the permit.</p> <p>Issues pertaining to waste characterization, quantification of the various waste streams and final disposal locations will be disclosed as part of the HAZMAT report and Waste Management Plan.</p> <p>Provisions for thorough waste auditing for each of the identified waste streams through the submission of intermittent updates of the respective waste characterization test results and Waste Logs (Schedule 9).</p> <p>Waste generated as part of the decommissioning, dismantling and demolition must be stored in the designated approved temporary waste storage site.</p> <p>Provisions for the handling of hazardous material and appropriate segregation of waste included.</p>
	Emissions related to operations at the facility, ie. Combustion of fuel for energy generation.	<p>ERA was notified that steam plants with the exception of OCGT9 were on cold standby as from Monday 14th March 2017.</p> <p>Open Cycle Gas Turbine will remain operational as an emergency plant as per current IPPC conditions together with its gasoil tank.</p>

5. Consultations

5.1	Internal	
		<i>Air & Waste; Air Quality Team</i>
		No feedback received
		<i>Air & Waste; Waste Management Team</i>
		Consultation regarding the Waste Management Plan and the Hazmat plan was carried out prior to the official start of the regulatory consultation.
		<i>Biodiversity & Water Unit</i>
		It must ensured that contaminants (especially with regards to the elevated values of Lead and benzo(a)pyrene) do not reach the marine/water environment.
		<i>Compliance & Enforcement Unit</i>
		See section on compliance history section 2.4
		<i>Environmental Assessment Unit</i>
	There were no additional comments from an EIA point of view	

		<p>given that the decommissioning of the Marsa Power Station is strictly an operational matter which will be covered by the IPPC process.</p>
		<p><i>Permitting Unit</i></p>
		<p>No comments were received from this entity</p>
<p>5.2</p>	<p>External (in terms of regulation 19(2) of LN 10 of 2013)</p>	<p><i>Civil Protection Department</i></p> <p>No comments were received from this entity</p> <p><i>Transport Malta</i></p> <p>No comments were received from this entity</p> <p><i>Malta Competition and Consumer Affairs Authority</i></p> <p>No comments were received from this entity.</p> <p><i>Malta Resources Authority</i></p> <p>No comments were received from this entity.</p> <p><i>Occupational Health and Safety</i></p> <p>No comments were received from this entity.</p> <p><i>Planning Authority</i></p> <p>No comments were received from this entity.</p> <p><i>REWS</i></p> <p>REWS has no additional comments.</p> <p><i>Environmental Health</i></p> <p>The Directorate highlighted the following concerns to human health during the demolition activities:</p> <ol style="list-style-type: none"> 1. Local air quality through the generation of dust during demolition and dismantling activities and also from stockpiles of demolition material. This may constitute a health hazard for residents, workers in nearby operations and nearby sensitive operations and is especially of concern if dust is contaminated with toxic chemicals, such as asbestos, as a result of previous activities on site. 2. Local air quality as a result of gaseous and particulate emissions from vehicle movements on- and off-site. 3. Nuisance (including noise, vibration and runoff) and other hazards generated by the dismantling and demolition activities and from traffic movements on- and off-site for the duration of the works. <p>The Directorate thus provided the following Recommendations:</p> <ol style="list-style-type: none"> 1. Thorough investigation of site to identify potential risks

		<p>and hazards to residents and workers in the vicinity including risks and hazards arising from cleaning and dismantling of structures.</p> <ol style="list-style-type: none"> 2. Management operations should aim to minimize disturbance to adjacent residential and occupational uses. 3. Timing site activities during the day to reduce impact on local residents and operations and informing these of particular activities in advance. Dismantling, demolition and transport of demolition materials should not be carried out during sensitive times of day (night). 4. Appropriate dust control strategies must be determined and deployed during demolition activities to avoid effects on local residents and workers in nearby operations. If use of water sprays is necessary, measures must be taken to prevent dispersion of mud on roads through dirty water collection in sumps provided with silt traps. 5. Stockpiles of demolition waste are to be maintained in conditions to avoid contamination of air or surrounding areas through wind action. Dust suppression measures must be determined and utilised in stockpiling areas. 6. Wheel washing facilities must be available and used for vehicles leaving the site and adequate sheeting of trucks carrying materials off site must be ensured to prevent dispersal of dusts during transport. Dispersal of mud onto local roads must be avoided through effective dirty water collection in sumps provided with silt traps. 7. Measures to decrease nuisance (including noise, vibration, odours and runoff) and other hazards must be determined and deployed during demolition and transport of demolition waste. Noise generated must comply with the requirements of BS5228: Part 1: 1984: Noise Control on construction and Open sites – code of Practice for Basic Information and Procedure for Noise control or its equivalent. 8. Appropriate route and timing of heavy trucks taking demolition debris off site for disposal must be determined so as to decrease impact on residential areas or other sensitive human receptors (e.g. nearby workplaces). 9. Adequate site security must be ensured. <p>Conditions were included to address this recommendations</p>
<i>Transport Malta</i>		
No comments were received from this entity.		
<i>Water Services Corporation</i>		
<p>The WSC requested the following requirements:</p> <ol style="list-style-type: none"> 1. Sites earmarked for transfer of oils (from transformers, steam turbines, etc) using vacuum suction bowsers are clear from any manholes or ingress points to the sewer network. In the event that this is not practical the site must be banded temporarily using oil adsorbent booms. Under no circumstances shall oils/fuels and/or any washings of any tanks/ pipe network be allowed to be discharged into sewer. 2. Batteries should be secured & placed in adequate containers to avoid any spillages. 3. Mercury containing items should be handled and stored in 		

		<p>adequate containers to avoid breakages and possible spillages.</p> <p>4. If water is sprayed during the dismantling of the chimney or any other structures as part of air abatement measures, this water will not be allowed to be discharged to sewer prior Enemalta obtains a public sewer discharge permit for this particular waste water.</p> <p>5. The limits and provisions stipulated by LN 139 of 2002 as amended by LN 378 of 2005 must be observed at all times.</p> <p>Enemalta was requested to provide feedback in this regard, in which it agreed to all conditions highlighted above.</p>
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6. Public consultation

6.1	Public consultation	12 th July 2017 – 26 th July 2017
6.2	Response	<i>No response was received from the public</i>

7. Conditions

		<p>Conditions related to the partial surrender and dismantling of the MPS</p> <p>Demolition and dismantling works shall strictly adhere with the conditions stipulated in PA 3349/14</p> <p>Recommendations stipulated in the risk assessment for the facility shall be implemented at all times and works shall be supervised by competent persons at all times to ensure a high level of safety according to current OHS legislation and applicable standards.</p> <p>Specific conditions relating to the dismantling and handling of hazardous waste.</p> <p>General conditions are included to mitigate potential emissions to the air, land, surface waters and sea.</p> <p>Reference to waste management obligations.</p> <p>Requirement for land monitoring.</p>
		<p>Residual Operating condition for operational plant</p> <p>The Permitted Installation shall, subject to the conditions of this Permit, be managed, controlled and operated using the techniques and in the manner described in the original IPPC application and in the subsequent applications for renewal and variation, or as otherwise agreed in writing by the Authority</p> <p>General Conditions</p> <p>General outline of the permits. Permit conditions of each subsidiary permit must be read in conjunction with the related permits.</p> <p>Permitted Activities</p>

Conditions are in place to allow specific operations as described in section 1.1 above and in Table 1.1.1 of the permit

Site

Boundary outline for the permitted activities above.

Information to the public

Conditions related to the publication of emission data.

Overarching Management Conditions

Condition for the implementation of Environmental Management System (EMS). As part of the EMS, the operator shall ensure that auditing procedures are inclusive of all other operators within the installation. Any corrective actions arising from such audits shall be discussed with other operators and the Authority, especially where these have an effect on any other operator at the installation.

Improvement Programme

Refer to section 7.2

Operational Changes

Procedures which should be taken in the event of operational changes.

Emissions to Air, Emission Ceilings

Conditions related to monitoring of air emissions excluding odour, noise or vibration from specified points.

Discharges to sewer

The operator shall also abide by the general provisions of the Sewer Discharge Control Regulations (LN 139 of 2002 as amended by LN 378 of 2005 and as may be amended from time to time).

Discharges to groundwater

No discharges to groundwater are allowed as per requirement of S.L. 549.53. Conditions also include provisions to safeguard the good chemical and quantitative status of ground waters as required under the Water Policy Framework Regulations, S.L. 549.100.

Emissions to marine water

Conditions related to monitoring of discharges to marine water from specified points.

Waste

Various conditions regarding the storage on site of own waste pending disposal at permitted facilities. Conditions in this section mainly deal with storage, transport, disposal and record keeping and are applicable to both the residual operations at the plant together with the partial dismantling of the facility.

Odour

The Operator shall use BAT so as to prevent or reduce odorous emissions. Operator may be requested to produce an odour management plan.

Emission to Land

No emissions to land are allowed. Operator may be requested to produce a decontamination plan in the event of accidental release.

Noise and Vibration

The Operator shall use BAT so as to prevent or limit emissions of noise and vibration. Various mitigation measures apply to alleviate noise and vibration from the plant. Provisions for noise monitoring are included.

Management and Technically competent person

Conditions have been included to address training of staff, personnel proficiency and issues pertaining to the Technically competent person

Energy efficiency

Conditions related to maintaining and implementation of an energy management system.

Land and Groundwater investigations, closure and decommissioning

As part of the improvement programme for the installation, the operator shall submit a baseline report and a monitoring strategy in line with European Commission Guidance concerning baseline reports under article 22(2) of Directive 2010/75/EU on industrial emissions (2014/C 136/03).

Ozone Depleting Substances & Fluorinated Gases

Conditions to address the maintenance and servicing of equipment containing Ozone Depleting Substances by the requirements of Regulation (EC) No. 1005/2009 on substances that deplete the Ozone Layer & L.N. 280 of 2010 on substances that deplete the ozone layer, Regulations 2010.

Records, Reporting and Notification

The operator is required to maintain records on several aspects of the permit and have these available for inspection by the Authority should the need arise.

An annual environment report has been included in the permit where the operator shall submit monitoring results and waste transfers for the previous calendar year.

A notification system has also been set up so as to ensure that any exceedances from ELVs, incidents on site or fugitive emissions are reported within a specific timeframe and through a set process.

These sections also address the operator's obligations under the European Pollutant Release and Transfer Register (E-PRTR).

Interpretation

This section includes an explanation of terminology utilised in the permit where it is deemed to require an explanation.

7.2 Improvement Programme

Table 1.5.1: Improvement programme			
Reference	Requirement	Date	Status
8	To submit the information requested as per condition 3.6.1.15.	To be submitted within 3 months of issue of the IPPC permit.	Addressed. Priority substances are not in use.
11	For each waste		Schedule 9 form to be

			stream identified in the decontamination and dismantling of tanks 1, 2 and 6 , compilation of the form in Schedule 9 for ERA`s approval		updated and submitted to ERA within 2 months of issue of permit
		12	<p>In relation to Chimneys 1 and 3 –</p> <p>Submission of a sampling plan in line with EN 14899- 2005 as proposed in the RA chimneys. This shall include details on how samples are to be analyzed by laboratories that have proven experience in waste testing and preferably ISO17025 certified. The sand samples shall be analyzed according to EN13137, EN13657 (or EN13656) and EN12506 and provide information on both the organic and inorganic constituents in the samples. Classification of the nature of the waste is to be carried out according to SL504.37, the waste regulations and commission decision 2000/532/EC and not according to decision 2003/33/EC as indicated in section 1.4.5 of the RA tanks.</p> <p>This shall also address any C&D waste generated by the partial dismantling of the bund walls to provide access to tanks 1, 2 and 6</p>	To be submitted for MEPA`s approval within 2 months of issue of the IPPC permit.	Addressed
		13	For each waste stream arising from the dismantling and demolition of the chimneys, compilation of the form in Schedule 9 for MEPA`s vetting and approval		Schedule 9 form to be updated and submitted to ERA within 2 months of issue of permit

		14	In relation to the 2 degassing towers – Submission of a sampling plan in line with EN 14899- 2005 as proposed in the RA chimneys. This shall include details on how samples are to be analyzed by laboratories that have proven experience in waste testing and preferably ISO17025 certified. The sand samples shall be analyzed according to EN13137, EN13657 (or EN13656) and EN12506 and provide information on both the organic and inorganic constituents in the samples. Classification of the nature of the waste is to be carried out according to SL504.37, the waste regulations and commission decision 2000/532/EC and not according to decision 2003/33/EC as indicated in section 1.4.5 of the RA tanks.	To be submitted within 2 months of issue of the IPPC permit.	Addressed
		15	For each waste stream arising from the dismantling and demolition of the degassing towers, compilation of the form in Schedule 9 for MEPA's vetting and approval.	Schedule 9 form to be updated and submitted to MEPA within 2 months of completion of works	Addressed
		16	Submission of timeframes for implementation of recommendations arising from the full decommissioning plan submitted as part of IP 0003/07/A	To be submitted within 3 months of issue of the permit	Replaced by item 21
		17	Submission of timeframes for the submission of a full review of the outline decommissioning plan as required by	To be submitted within 6 months of issue of the permit	Replaced by item 21

			condition 2.16.7 of IP 0003/07/A		
		18	Submission of a plan indicating how Enemalta will comply with certain emission ceilings by 2019 and 2029	By 31 st December 2016	Addressed through DPS application
		19	Location of storage of C&D waste generated from the parts of bund walls to be demolished to provide access to tanks 1, 2, and 6. This shall include information on containment against dispersion of any particulates to the air or transport of material through runoff.	Prior to commencement of decontamination, dismantling and demolition works.	Addressed.
		20	In relation to emission points to sea listed in table 3.6.1.2, Submission of information on operational and non operational emission points.	Within 3 months of issue of the permit	Addressed
		21	The submission of an updated full decommissioning plan including timeframes for implementation and updates in relation to land and ground/seawater testing.	Within 12 months of issue of the permit	New item to Permit C
		22	For each waste stream arising from the dismantling and demolition of the structures listed in the application document dated July 2017	Outstanding information to be submitted upon characterisation of the remaining waste for ERA approval before removal from site. Finalised Schedule 9 form to be updated and submitted to ERA within 2 months of	New item to Permit C

				completion of works	
		23	Submission of outstanding information requested by ERA and statutory consultees during the application review.	Within 2 months of issue of permit	New item to Permit C

8. Financial matters

8.1	Financial guarantee	A financial guarantee of € 34,500 to secure the obligations under this permit has been established.
8.2	Annual Fee	€ 2,155
8.3	Other fees	Pending annual fees for 2016 & 2017 – € 6,450 (€ 3,225 X 2) Pending Inspection fees 2015 (June to December) (4 inspections), 2016 (1 inspection) and 2017 (3 inspections) – € 1,600 (8 inspections X € 200).

9. Recommendation

IP 0003/07/C is being recommended for issue, subject to the conditions indicated in section 7 for a period of 4 years.

This report to the ERA Board has been prepared and endorsed by:

Case Officer: Nathalie Ellul
Team Manager

Gabriella Grima
Environment Protection Officer

Endorsed by: Anthony Aquilina
Unit Manager

Signature:

Signature:

Date:

Date:

Signature:

Date: