



For MEPA use only

Application reference:

Use this part of the form if you are applying to vary the conditions or any other provision contained in your permit.

Please read carefully Appendix I attached with this application.

### C1 About the installation

Please fill in the installation table below with details of all the activities and operators at the whole installation, even if you are applying for a permit in respect of only part of the installation.

In **Column 1: Activities in “the stationary technical unit”**, please identify all activities listed in Schedule 1 to the IPPC Regulations that are proposed to be carried out in the “stationary technical unit” of the installation.

For **Directly associated activities**, please identify any directly associated activities proposed to be carried out on the same site which:

- have a technical connection with the activities in the stationary technical unit; and
- could have an effect on pollution.

These could include, for example, boilers, generators, water purification systems, scrubbers and other air purification systems.

In **Column 2: Schedule 1 references**, write the category the installation falls under in Schedule 1 of the IPPC Regulations (L.N. 234 of 2002 as amended).

In **Column 3: Operator**, write the name of the operator for each activity (if you are the operator yourself, write “Applicant”).

In **Column 4: Variations**, indicate how the proposed changes would affect the activities.

#### C1.1 Installation details

COLUMN 1 Permitted activities in the “stationary technical unit”	COLUMN 2 Schedule 1 references	COLUMN 3 Operator	COLUMN 4 Proposed variations
Combustion Installations with a rated thermal input exceeding 50MWth Rated Thermal Input per engine is approximately 38,500kW* <sup>1</sup>	1.1	Applicant	Installation of new HFO Diesel engine- driven plant rated at 149MW (Gross)

#### Directly associated activities

Associated activity of fuel handling and storage	not applicable	Applicant	Addition of new tank/s of 4x125m <sup>3</sup> HFO; 1 x 140m <sup>3</sup> DO and 1 x 40m <sup>3</sup> sludge storage. Associated fuel oil pipelines [details in <b>Drawing C1.1 2970.C0.011.001</b> ]. Increase in HFO consumption of
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			around 130,300 tonnes / year (2 shift operation 5000 hrs/yr); and 226,700 tonnes /yr (base load).
Associated activity of utilities	not applicable	Applicant	Increase of seawater for cooling [etc.] of approx. 14,000 m <sup>3</sup> /hour. With 60% increase in the use of pre-treatment chemicals. Addition of new tanks of 1x175m <sup>3</sup> lub oil storage; 1x lub oil drains; 2 x 125m <sup>3</sup> urea solution buffers.
Associated activity of storage, treatment and disposal/recycling of waste materials	not applicable	Applicant	Generation of new wastes from the secondary measures / treatment processes to reduce SO <sub>x</sub> & NO <sub>x</sub> (FGD waste* <sup>2</sup> ) will require storage facilities for such wastes which will be disposed of abroad either by recycling or land filling.
Associated activity of maintenance	not applicable	Applicant	Generation of additional solid / liquid wastes from maintenance work on new plant which will have to be disposed of or recycled. (SCR catalyst replacement and filter bag replacement).

\*Refer to supporting documents

Annex 1 – C2.5.2 Energy Efficiency

Annex 2 – Updated version of Appendix 1 of May 2010 Submission

Annex 3 – Revised CBA Aug 2011

Annex 4 – Wärtsila Performance Info

## C1.2 Non-technical description

Please provide a non-technical description of the proposed changes.

Document reference number:

C1.2 DPS P3\_01\_NTD; C1.2 DPS P3\_02 GPD

## **C1 About the installation *continued***

[Annex A – Natural Gas](#)  
[Annex B – Gas Oil MSDS](#)  
[Annex C – Heavy Fuel Oil MSDS](#)  
[Annex D – Lube Oil T40 MSDS](#)  
[Annex E – MPS Revised Site Plan](#)

### **C1.3 The proposed variations**

Please provide a summary of the variations which you are applying for.

This should include:

- a description of the change in operation requiring the variation;
- an indication of the variations to the conditions of the permit that you wish to apply for.

Document reference number for the summary:

**C1.3 The Proposed Variations**

### **C1.4 Site maps and reports**

[Annex 5 – Area Codes & Room NO. ID](#)  
[Annex 6 – Site Plan Room No. definition 2970.D2.001.003](#)  
[Annex 7 – Site Plan Room No. definition general 2970.D2.002.003](#)

**C1.3** Are you proposing any change in operation that would result in additional land being included within the site of the installation?

Yes ☐ **No** ☐

Please provide:

#### **C.1.4.1**

A site report, describing the condition of the site of that part of the installation in respect of which you are applying for a variation, and, in particular, identifying any substance in, on or under the land which may constitute a pollution risk. A baseline report assessing the state of the groundwater and land may also be required by the Authority.

Document reference number for the report:

**C1.4.1 Site Report**

#### **C1.4.2**

A suitable map (or maps) showing the location of the site of the installation, and the area for which a variation of the IPPC permit is being applied for. The outline of the site and the area requiring the variation should be clearly marked in colour, and the surroundings of the site should be included in the map.

Document reference number for map(s):

**C1.4.2 DPS Extension Block Plan**

#### **C1.4.3**

Suitable block plans, properly labelled, showing any changes to the location and nature of the various activities being proposed on that site.

Document reference number for plans:

**C1.4.3 DPS Extension Site Plan**

*All maps and plans submitted shall be to scale, using a scale rule. Soft copies of plans should be submitted in .pdf format only.*

## **C2 Your proposed techniques**

Please provide written information about the aspects of your installation listed below. We need this information, and that which you give in response to C3 and C4, to determine whether you will operate the installation in a way which meets all the environmental requirements of the IPPC Regulations.

In each case you should:

- address all of the issues set out in each question;
- justify your proposals against any indicative requirements contained in the relevant BREF guidance notes; and
- provide any other information about the installation which you think is relevant to that issue.

### **C2.1 Environmental Management System**

Provide details of any changes to environmental management techniques resulting from your proposals.

Document reference number:

**C2.1 Environment Management**

## C2.2 Raw materials

Identify any changes to the raw and auxiliary materials to be used as a result of your proposals. Give details of quantities proposed to be used annually and submit respective MSDS sheets.

Document reference number:

**C2.2 DPS P3\_Consumables;  
C2.2 DPS P3 Consumables\_Urea MSDS  
C2.2 DPS P3 Consumables\_Bicar MSDS**

Annex 8 – 2970 D2 601 001  
Annex 9 – 2970 M2 R19 001  
Annex 10 – MSDS HP 40 Urea Solution  
Annex 11 – NoxCare 40 UK version  
Annex 12 – UREA Solution  
Annex 13 – MSDS Sheets Residual Fuel Oil & Heavy Fuel Oil  
Annex 14 – MSDS Sodium Hydroxide Anhydrous  
Annex 15 – MSDS TMT15  
Annex 16 – Product Sheet FeCl3 PIX-111  
Annex 17 – MSDS Superfloc polymer A 1883RS

## C2.3 Proposed activities

### C2 Your proposed techniques *continued*

## C2.4 Maintenance

Describe any changes to the maintenance programme for the installation.

Document reference number:

**C2.4 Maintenance Works**

## C2.5 Energy

**C2.5.1:** Describe any changes to the annual energy consumption, highlighting the main energy-consuming equipment, and generation by source and end-use (including information on energy generated on site, if applicable).

Document reference number:

**Out of 149MW the plant will consume around 5MW as internal consumption.**

**C2.5.2:** Describe the proposed basic measures for improvement of energy efficiency.

Document reference number:

**C1.2 DPS P3\_01\_NTD**

Describe any changes to the installation activities and the proposed techniques and measures to prevent and reduce waste and emissions of substances and heat (including during periods of start-up or shut-down, momentary stoppage, leak or malfunction) as a result of your proposals.

Annex 18 – 2970.S2.F01.001 fuel supply  
Annex 19 – 2970.S2.K01.001 Oil Water & sludge  
Annex 20 - Filter Bag HD Fiberglass  
Annex 21 – DIN51603 Light fuel oil  
Annex 86 – New Power Block Emission Reduction Figures

Submit a flow diagram summarising the proposed installation activities and indicating the changes.

Document reference number:

**C1.2 DPS P3\_02\_GPD; C1.2 DPS P3\_01\_NTD  
C2.3 BAT Measures – New Plant Extension**

## C2.6 Water

Provide a breakdown of any changes to the proposed annual water consumption by source and end-use.

Document reference number:

**Self sufficient: Providing 1400m<sup>3</sup> of evaporated water to all the power**

## C2.7 Risk assessment

Describe any changes to the documented system used to identify, assess and minimise the environmental risks and hazards of accidents and their consequences. Include any changes to emergency plans in case of fire and other emergencies.

Document reference number:

**C2.7 DPS P3\_05\_EIA\_Risk Assessment**

Annex 22 – Stage 2 Risk Assessment  
Annex 23 – 2970 M2 R19 001  
Annex 24 – D100196-rev1  
Annex 25 – DB4-XZ-006 Block 4 services  
Annex 26 – 2970 E7 R21 001 cables penetration  
Annex 27 – KBS sealing system  
Annex 28 – Bund wall steel pipe penetration

### C2.8 Training

Please indicate whether any changes to the staff training programme will be required. Please submit the name of the technically competent person on site who will be responsible for such training.

Document reference number:

**C2.8 Training**

### C2.9 Cessation

Describe any changes to the proposed measures upon definitive cessation of activities, to avoid any pollution risk and return the site of the installation to a satisfactory state (including relevant measures for the design and construction of the installation).

Document reference number:

**Attachment 14 Delimara Power Station Decommissioning report of existing installation IPPC application still holds.**

### C2.10 Multi-operator installations

Where you are not the only operator of the installation, any change to the techniques and measures (including those to be undertaken jointly by yourself and other operators) for ensuring satisfactory operation of the whole installation resulting from your proposals.

Document reference number:

**Not applicable**

## C3 Your proposed emissions

In response to the following questions, please provide written information about the emissions which will result from the techniques you described in response to the questions in section C2.

You should also provide any other information about the installation which you think is relevant to that issue.

### C3.1 Waste

**C3.1.1:** Characterise (using the European Waste Catalogue code – Schedule 1 of LN 337 of 2001) and quantify any changes to each waste stream from the installation.

Document reference number:

**C3.1.1 DPS P3 07 Waste  
C3.1.1 Emissions waste**

**C3.1.2:** Describe any changes to the proposed measures for waste management, storage and handling.

Document reference number:

**Refer to: C3.1.1 DPS P3 07 Waste**

## C3 Your proposed emissions *continued*

**C3.1.3:** Describe how each waste stream identified in C3.1.1 is proposed to be recovered or disposed of and, if you propose any disposal, explain why recovery is technically and economically impossible and describe the measures planned to avoid or reduce any impact on the environment.

Document reference number:

**C3.1.3 DPS P3 08 Waste Disposal-Recovery**

Annex 29 – IPPC Committee response\_110506  
Annex 30 – 2970.D2.401.101 Blr Washdown  
Annex 31 – 2970 D2 011 001  
Annex 32 – Residual Silo & substructure  
Annex 33 – Waste Silo  
Annex 34 – 2970 D2 601 001 - FOT Bldg (UEM) Service T, F, (UEK) Layout  
Annex 35 – 2970 D2 402 101 – Abatement (UTJ) Genst 41 to 44 Layout  
Annex 36 – 2970.D2.621.001 – Storage Area for UREA & Bicarbonate (UVE) Layout

Annex 37 – Sodium Hydroxide (Anhydrous) Safety Data Sheet  
Annex 38 – MSDS TMT15  
Annex 39 – MSDS PIX-111  
Annex 40 – MSDS Superfloc polymer A 1883RS  
Annex 41 – 2970.M0.K45.001  
Annex 42 – Revised TIS  
Annex 43 – Proposed land route of development traffic  
Annex 44 – Maps four junctions - traffic count directions  
Annex 45 – Revised TIS Appendix 1  
Annex 46 – 2970 M2 K04 001 Oily water Effluent Pit  
Annex 47 – BWSC Malta Memo 13JULY2011  
Annex 48 – Bag Filter  
Annex 49 – Waste silo Loading bellow  
Annex 50 – 6746-00 Conjunto General S03

### C3.2 Emissions to Groundwater

Identify if there may be a discharge of any List I or List II substance as a result of your proposals, and if any are identified, explain how the requirements of the Groundwater Regulations (LN 203 of 2002) have been addressed.

Document reference number:

**Refer to: C2.7 DPS P3 05 EIA Risk Assessments**

### C3.3 Emissions to Sewer

**C3.3.1:** Is a new sewer connection envisaged as a result of your proposal?

Yes ☐ **No** ☐

If yes, please submit a block plan of the site, showing the proposed layout of sewer connections and any other drains (colour-coded), as well as the proposed discharge point(s).

Document reference number:

**Not applicable**

**C3.3.2:** If a new sewer connection is envisaged, does the installation have a Sewer Discharge Permit?

Yes ☐ **No** ☐

Please submit a copy of the permit, or of the submitted application if the permit has not yet been issued.

Document reference number:

**In process of preparation**

**C3.3.3:** Could the proposal involve the release of any Schedule A or Schedule B substance into the sewers?

Yes ☐ **No** ☐

If yes, explain how the requirements of LN 139 of 2002 have been addressed.

Document reference number:

**Not applicable**

### C3.4 Emissions to the Sea

Identify if the proposal may result in a direct discharge of any List I or List II substance to coastal (up to 1 nautical mile from the coast line) or territorial waters.

**Yes** ☐ No ☐

If any are identified, explain how the requirements of the Discharge of Dangerous Substances Regulations (LN 213 of 2001) have been addressed.

Document reference number:

### C3.4 Marine Discharges: Impact Assessment

In addition, please submit a block plan of the site, showing the proposed discharge point to the sea.

Document reference number:

### C3.4 DPS Sea Water Discharge Points

Annex 51 – Cooling Water AAR Final Draft  
Annex 52 – Addendum to - Cooling Water AAR at Delimara Power Station  
Annex 53 – DB4-XZ-06 (DPS block 4 services)  
Annex 54 – 2970 S2 M01 001 - Sea Water Balance with STG in operation  
Annex 55 – 2970 M2 K04 001 - Oily Water effluent pit  
Annex 56 – 2970 M2 K05 001 – Separator Unit Oily Water  
Annex 57 – Oily water separator maintenance manual  
Annex 58 – 2970.D2.401.101 Abatement (UTJ) Genset 41 to 44 Layout

### C3.5 Emissions to Air

Identify if there may be any changes in emissions of substances to air.

**Yes** ☐ No ☐

If any are identified, submit details of each emission point, the nature and the proposed quantities of substances emitted from each point. A block plan of the site showing each emission point should be submitted.

Document reference number:

**C3.5 DPS P3 11 Airborne Emissions**  
**C3.5 DPS P3 12 Airborne Emissions**  
**Generated**  
**C3.5 Stack Properties of new plant**

[Annex 59 – Bref](#)

[Annex 60 – VOC units for HFO tanks 2010.11.10](#)

[Annex 61 – VOC screen dumps](#)

[Annex 62 – CBI technical proposal \(2\)](#)

[Annex 63 – CBI design basis Delimara plant](#)

[Annex 64 – Data Sheet - Adsorption filter Ny](#)

[Annex 65 – MSDS Norit](#)

[Annex 66 – Impregnated Carbons for the Adsorption of H<sub>2</sub>S & Mercaptans](#)

[Annex 67 – ROZ3\\_rev8](#)

[Annex 68 – MSDS111\\_REV02](#)

[Annex 69 – Activated Carbon Filters Op & Maintenance Manual](#)

[Annex 70 – 2970.M2.F13.001 VOC Units for HFO & DO Tanks](#)

[Annex 71 – 2970.D2.601.001 SCR & Fuel area](#)

[Annex 72 – 2970.D2.601.001 VOC units](#)

[Annex 73 – saturation control of activate carbon](#)

[Annex 74 – Data Sheet - Adsorption filter Ny](#)

### C3.6 Emissions to Land

Identify if there may be any changes in emissions of substances to land.

Yes ☐ **No** ☐

If any are identified, submit details of the nature and the proposed quantities of substances emitted to land, as well as a map showing the proposed location of such emissions.

Document reference number:

**Not applicable**

[Annex 75 - 2970.C0.012.000.R00.Excavation area](#)

## C3 Your proposed emissions *continued*

### C3.7 Noise

[Annex 76 – Noise MP\\_15\\_03\\_10\\_100315](#)

[Annex 77 – BWSC Malta Memo 28MAR2011](#)

[Annex 78 – Architectural details noise insulation](#)

[Annex 79 – DPS 2010 Noise Report](#)

[Annex 80 – DPS 2011 Noise Report](#)

Describe:

**C3.7.1:** The main sources of noise and vibration (including infrequent sources) of the proposal;

**C3.7.2:** The proposed techniques and measures for control of noise;

**C3.7.3:** The nearest noise sensitive locations and distance away from the site (a site map may be submitted for this purpose); and

**C3.7.4:** Relevant environmental noise measurement surveys which have been undertaken (using a standard methodology such as BS4142).

**C3.7 DPS P3 13 Noise Generated by new Plant**

**C3.7 DPS P3 14 Noise & Vibration Chapter EIA VOL I**

To ignore reference to construction part from

### C3.8 Monitoring

Describe the proposed measures for monitoring emissions arising from the proposal, including any environmental monitoring. The following must be specified:

[Annex 81 – Continuous Emission Monitoring System](#)

[Annex 82 – Continuous Emission Monitoring System Station Containerized Unit](#)

**C3.8.1:** The location of each proposed monitoring point (plotted on a suitably-labelled block plan of the site);

**C3.8.2:** The substances (in each environmental medium) which are proposed to be monitored;

**C3.8.3:** The frequency with which monitoring is proposed to take place;

**C3.8.4:** The proposed measurement methodology, which should be a standard methodology, such as EN or ISO standard, or equivalent;

**C3.8.5:** The proposed procedure for evaluation of the results.

Document reference number:

**As for IPPC permit of existing plant.**



### C3.9 Summary

By means of a mass flow diagram, summarise the emissions and waste described in sections C3.1, C3.2, C3.3, C3.4, C3.5, and C3.6 of this application.

Document reference number:

**C3.9 DPS P3 15 Reagents & Waste  
Flows Tables C1.2 DPS P3\_02 GPD**

If yes, please supply a copy of the environmental statement submitted and details of any decision made.

Document reference number:

**ENV/3260/A/08 PA03152/05 Vol I/II/III/IV  
Aug 2009 [MEPA already in possession of  
copy]**

## C4 Impact on the environment

Please provide written information about the impact your emissions may have on the environment.

You should:

- address all of the issues set out in the section;
- justify your proposals;
- provide any other information about the installation which you think is relevant to that issue.

### C4.1 Environmental effects

Provide an assessment of the potential significant environmental effects (including transboundary effects) of the foreseeable emissions from the proposal.

Document reference number:

**C4.1 Environmental Effects**

[Annex 83 – Projected Emission Load Appendix 2 Revised](#)

### C4.2 Effects on other sites

Provide an assessment of whether the proposal is likely to have a significant effect on another site in Malta and, if it is, provide an assessment of the implications of the installation for that site.

Document reference number:

**See C4.1 Document**

## C5 Environmental statements

### C5.1 Environmental statement

Has the development of the installation (or any subsequent change or extension of the development) required an environmental statement (EIS or EPS) under LN 204 of 2001 on the assessment of the effects of certain public and private projects on the environment?

[Yes](#) ☐ No ☐

## C6 Statutory consultees

We will use the information in this section to identify who we must consult about your proposals.

### C6.1 Local council

In which area is the installation located? If premises are on a boundary please give the names of all the relevant authorities.

**Although Delimara Power Station is in the area of Marsaxlokk Local Council, Act No. XV of 1993 excludes the area from the responsibility of the local council.  
Malta Maritime Authority**

### C6.2 Other sites

Are there any other sites which may be affected by emissions from the proposal? (Refer also to your answer to C4.2).

[Yes](#) ☐ No ☐

If yes, please give the names of the sites:

**Birzebbugia  
Marsaskala  
Marsaxlokk  
Zejtun**

### C6.3 Port Authority

Could the installation involve the release of any substance into a harbour managed by a port authority?

[Yes](#) ☐ No ☐

If yes, please name the port authority:

**Malta Maritime Authority**



## C7 Planning status

### C7.1 Planning status

Which of the following applies to the proposed installation activities?

We cannot issue a permit unless one of the following applies. Please tick the applicable answer and submit a copy of the relevant documents.

☐ [You have planning permission.](#)

Document reference number:

PA 3152/05; 2933/09;

☐ You have a certificate of lawful existing use or development.

Document reference number:

☐ Planning permission is not required - please say why and enclose written confirmation from the Planning Directorate at MEPA.

Document reference number:

☐ If you have submitted an application for planning permission which has not yet been determined, please provide a copy of the application.

Document reference number:

## C8 Technically competent person

### Technically competent person

We need to make sure that whoever holds the permit is a 'technically competent person'. This includes consideration of relevant offences, technical competence and financial provision.

### C8.1 Technically competent management

Please describe any changes to the technically competent management of the activities.

*Please give details for each person and provide written evidence.*

Responsible person 1:

Full Name:  
Position:  
Date of employment:

Document reference number for copies of relevant qualifications:

Responsible person 2:

Full Name:  
Position:  
Date of employment:

Document reference number for copies of relevant qualifications:

Responsible person 3:

Full Name:  
Position:  
Date of employment:

Document reference number for copies of relevant qualifications:

Responsible person 4:

Full Name:  
Position:  
Date of employment:

Document reference number for copies of relevant qualifications:

## C8.2 Management of other installations

Is any of the technically competent management already providing the technically competent management at other IPPC installations or at sites licensed under the Environmental Protection Act 2001?

[Yes](#) ☐ No ☐

If yes, please use a separate sheet to give details of these people. For each person we need to know the:

- site/installation name and address;
- licence/permit reference number.

Document reference number for this information:

[C8 Technically Competent Person](#)

- clearing the installation (including drainage systems) of all wastes;
- remedial action in the event of the failure of pollution control systems.

*We recognise that this plan may need to be revised before the issue of the final permit.*

Document reference number for expenditure plan:

[C9.1 Expenditure Plan](#)

## C10 What to do next

Please read Appendix I, then prepare and sign a covering letter to attach to your application form.

## C9 Expenditure plan

### C9.1 Expenditure plan

Please provide a plan of the estimated expenditure for each phase of the following specified activities arising from your proposal.

The plan should include the likely costs of:

- monitoring (emission/discharge and ambient monitoring);

## Appendix I Data Protection Clause

In terms of the Data Protection Act (Chapter 440 of the Laws of Malta), we will process any personal and/ or sensitive data supplied on/ in this submission or subsequently supplied by yourself, whether orally or in writing, for all or any of the following purposes:

1. The proper processing of your submission;
2. internal management, research and statistics;
3. the protection and promotion of our legitimate interests and the proper conduct of our obligations arising under any law or statutory instrument; and
4. to make public the necessary information as specified in the relevant law and/or instrument.

Relevant data will be disclosed or shared as appropriate with all our employees and with other third parties if pertinent to any of the purposes listed above.

You have the right to require that we provide you with access to your **personal data** as well as the right to rectify, or, in appropriate circumstances, erase/edit any inaccurate, incomplete or immaterial personal data which is being processed. However, you are required to inform us immediately of any alterations relating to your personal data which we are processing.

By sending your submission, you confirm that you are giving your explicit consent, in terms of the Data Protection Act, on behalf of yourself and all the other persons specified in this submission for the Authority to process your respective personal information as outlined above and you confirm that you have brought this Data Protection notice to the attention of these other persons and obtained their respective consents.

We undertake to implement appropriate measures and safeguards for the purpose of protecting the confidentiality, integrity and availability of all personal data processed