

Vasilikos Power Station

Legal requirements in accordance with R.A. 347/2015 on information concerning mainly dangerous substances and the nature of major accident hazards that may occur as a result of the Station's activities.



September 2023

1. Introduction

The present briefing note contains all the essential information that needs to be disclosed to interested parties by the Electricity Authority of Cyprus, Vasilikos Power Station, and covers the company's legal requirements in accordance with R.A. 347/2015. This information mainly concerns dangerous substances and the nature of major accident hazards that may occur as a result of the Station's activities. It has been drafted according to standards drawn up by the UK Health and Safety Executive regarding the publication of information on installations that fall within the framework of Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (SEVESO III).

2. Establishment Details

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| Company Name | Electricity Authority of Cyprus Vasilikos Power Station |
| Address | P.O. Box. 54294, CY-3722 Limassol |
| Is it governed by the provisions of the 2015 Regulations on Health and Safety in the Workplace (Dealing with Major Accident Hazards Related to Dangerous Substances) – R.A. 347/2015? | Yes. It is classified as an upper tier establishment |
| Has a Safety Report been submitted to the competent authority? | Yes |
| Activities of the Establishment: | Generation of electricity and Production of desalinated water |
| Date of last inspection by the competent authority | Once a year. For more information: https://www.mlsi.gov.cy/mlsi/dli/dliup.nsf/All/D06046C1272FB786C2257DDB0043A518?OpenDocument |
| Additional information about the Establishment | Tel. : +357 24 20 7000 Fax.: +357 24 20 7009 Email: eac@eac.com.cy Website: https://www.eac.com.cy/ |

3. Information on Dangerous Substances

| Name | Class of Dangerous Substance (R.A. 347/2015) | Main Hazardous Characteristics |
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| Distillate Fuel Oil (Diesel) | Oil | Flammable liquid that may cause fire. Toxic to aquatic organisms. |
| Heavy Fuel Oil | Oil | Flammable liquid that may cause fire. Highly toxic to aquatic organisms. |
| Hydrazine* | Carcinogen | Flammable liquid that may cause fire. Highly toxic to aquatic organisms. |
| Ammonium Hydroxide | Corrosive | May cause irritation of the respiratory system. May cause burns. Highly toxic to aquatic organisms. |
| Sodium Hypochlorite | Corrosive | May cause irritation of the respiratory system. May cause burns. Highly toxic to aquatic organisms. |
| Hydrochloric Acid | Corrosive | May cause irritation of the respiratory system. May cause burns. Highly toxic to aquatic organisms. |

* The Station stores small amounts of this substance in a closed space and takes all necessary measures to protect individuals inside and outside the establishment. Any leakage of hydrazine will not affect public health.

4. Major Accidents

All possible scenarios leading to a major accident have been identified by the Station and all essential measures have been taken to prevent such accidents and limit their impact on human health and the environment. The Electricity Authority of Cyprus has taken the necessary steps on-site, in conjunction with the emergency services (Fire Service, Police, Civil Defense, Department of Labour Inspection, etc.) to deal with major accidents and lessen their impact.

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| Nature of the major accident hazard | <ul style="list-style-type: none"> – Leakage of dangerous substances – Fire |
| Key information about the main types of major accident scenario | <ul style="list-style-type: none"> – <u>Leakage</u>: leakage of liquid and/or contaminated fire extinguishing water into the ground and/or groundwater. Environmental pollution. – <u>Fire</u>: May vary from intense fire lasting a few seconds to a serious conflagration lasting several hours. Such a scenario would not affect residential areas. Due the fire, a cloud of smoke may be created, causing breathing difficulties and depositing soot on property and vegetation. Due to the fire, toxic substances may be released. |
| Control measures for dealing with major accidents | <ul style="list-style-type: none"> – Controlled entry to the establishment – Monitoring systems, reservoirs, ducts and other establishment equipment have been designed, built and maintained in such a way as to prevent major accidents. – Regular checks on the maintenance and upgrading of establishment and equipment safety levels. – Continuous employee training to ensure that they possess the necessary qualifications to carry out their duties and deal with emergencies. – Supervision of employees, contractor crews and visitors. – Work permit issuance system. – Monitoring and constant upgrading of the Health & Safety Management System. – Leakage restriction system to minimize leakage of dangerous substances into the environment. – Emergency and anti-pollution plans. – Functional communication system, both within the establishment and with the competent authorities and external services. – Isolation processes that aim at the prevention and reduction of accident impacts. – Automatic operation monitoring systems. – Eradication of ignition sources based on a relevant study. – Portable and fixed fire extinguishing systems, constantly monitored to ensure effective operation. – Change management processes within the Station to maintain safety levels. – Use of suitable personal protective equipment by employees (e.g. masks, gloves, glasses) when managing dangerous materials. |

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| Potential effects of major accidents on human health | <ul style="list-style-type: none"> – Individuals in good health will not suffer long-term health problems due to temporary exposure to smoke from a fire. – Possible cause of burns to individuals close to the establishment but not in residential areas. – Exposure to toxic substances. |
| Potential effects of major accidents on the environment | <ul style="list-style-type: none"> – Pollution of the sea and contamination of groundwater. |
| Means of informing the public in case of a major accident | <ul style="list-style-type: none"> – In case of a major accident, those who may be affected will be contacted by the Police or other competent authority. – In case of a major accident, the establishment siren will sound. – Advice on the necessary action to be taken in case of a major accident will be given on TV/radio. – In case of a major accident, people are advised to remain indoors and to cooperate with the emergency services (Fire Service, Police, Civil defence, Department of Labour Inspection, etc.) if so required. |
| More information on the external emergency plan | Civil defence |
| Could a major accident affect another EU member state? | No |
| Useful telephone numbers | <ul style="list-style-type: none"> – Emergency Services 112 ή 199 – Police Station Zygi 24804320 – Civil Defense - Larnaka 24802029 or 24802034 – Civil Defense – Nicosia 22403427 – Fire Service Vasilikos 24804980 |