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Ra'anana, November 16, 2025

To:
Pannel Heat Israel Ltd.
Hachoshlim 9
Herzliya

Subject: **Magnetic Field Measurement Report in the Power Grid Frequency Range (ELF)**

1. Background for the Measurement

On 16/11/25 at 14:45, a measurement of the electromagnetic radiation power density from the electrical grid was performed.

Name of Client / Service Requester	Pannel Heat Israel Ltd. – Eyal
Address of Measurement Location	Hachoshlim 9, Herzliya
Phone Number of the Service Requester	054-4867766
Date of Measurement	16/11/25
Time of Measurement	14:45
Measurements Conducted in the Presence of	Eyal
Email Address	Info.p.heat@gmail.com
Weather Conditions	Autumn-like

Details of the Measurement Technician:

Name of the Measurement Technician	Batya Pardes
Permit No. for Providing Non-Ionizing Radiation Measurement Services in the Power Grid Frequency Range Issued by the Ministry of Environmental Protection	2121-02-4
Permit Validity	7/5/2029



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2. Specification of the Measuring Instrument for Grid Radiation Testing:

Manufacturer Name	TENMARS
Measuring Instrument Model	TM-192D 
Instrument Serial Number	200802196
Instrument Calibration Validity	9/5/27
Operating Frequency	50 Hz

3. Radiation Source Data

Item	Details
Type of Electrical Installation	Heating System
Belongs to:	Pannel Heat Israel Ltd.
Measurement Conditions	Full Load

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4. Magnetic Field Measurement Report

No.	Description of Measurement Location	Type of Occupancy Continuous Yes/No	Distance from Radiation Source (m)	Height of Measurement Point	Measured Magnetic Flux Density (mG)	Measured Magnetic Flux Density (mG) After Normalization
1	Room in "Chen" Parquet Store – Heating Unit	No	0.3	0.1	0.5	
2	" "	No	0.5	0.3	0.4	

The measurement results are valid for the location and time of measurement

5. Analysis of Results

The measurement results show electromagnetic power density levels below the threshold set by the Ministry of Environmental Protection, based on the recommendations of the World Health Organization.

6. Magnetic Field – Regulations, Recommendations and Risks

World Health Organization Recommendations

- The World Health Organization (WHO) has determined that the maximum permissible **instantaneous exposure** level for humans to an alternating magnetic field at a frequency of 50 Hz is **1,000 milligauss**. This determination is based on the recommendations of ICNIRP (International Commission on Non-Ionizing Radiation Protection) from 2010, which set threshold values for public exposure to low-frequency magnetic fields. This value is intended to prevent health effects from short-term acute exposures. This is also the recommendation of the Ministry of Environmental Protection in Israel for instantaneous exposure.

Recommendations of the Ministry of Environmental Protection: (dated September 11, 2013)

As a general rule, according to the Ministry of Environmental Protection recommendations, it is advised not to remain in workplaces where a radiation level above 10 milligauss was measured, for an 8-hour workday.

The permissible radiation exposure level, according to the number of working hours, should be calculated using the following formula:

$$bw < \frac{72}{t} + 1$$

$$t < \frac{72}{Bw - 1}$$

T - Exposure time

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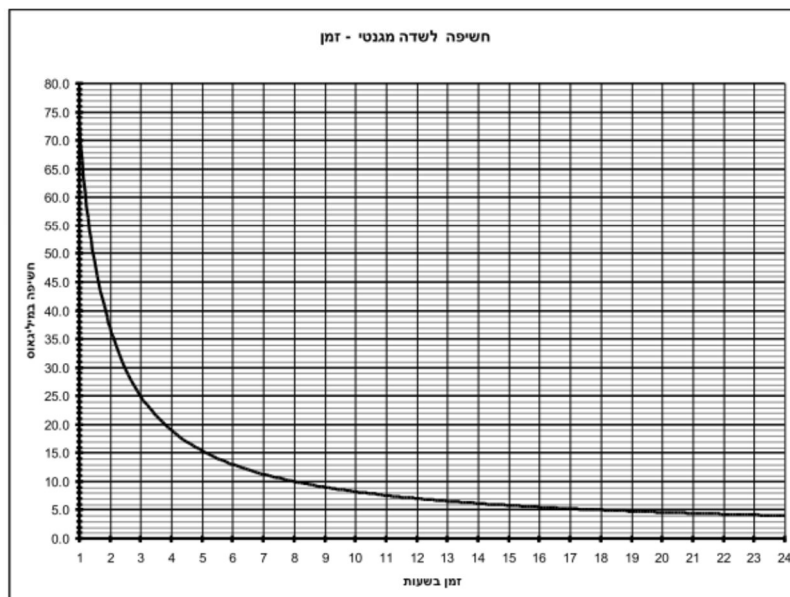
wB - Exposure level in milligauss

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Note: These formulas should not be used for a dwell time of less than one hour per day or for an exposure of less than 1 milligauss.

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ערכים אלו הינם בסיס בקביעת הצורך לטפל בהפחתת החשיפה סביב מתקנים קיימים.

אזהרה: אין להשתמש בנוסחאות אלו עבור זמן שהייה נמוך משעה ביממה ועבור חשיפה של פחות מ-1 מיליגאוס.

A magnetic field is created around electrical installations. This type of radiation has been classified by the World Health Organization as a "possible carcinogen".

The higher the current passing through the installation, the greater the magnetic field created around it.

In Israel, as in many other countries, no mandatory legal threshold has yet been set for chronic exposure to magnetic fields originating from electrical installations.

Chronic exposure, or continuous and prolonged exposure, is defined as exposure of more than 4 hours per day and more than 5 days per week. Residential buildings, offices, educational institutions, commercial and industrial buildings, etc., are considered places where the exposure is chronic.

In residential buildings, where exposure is defined as 24 hours a day, the calculation made according to the formula is 96 milligauss

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divided by 24 hours, giving a result of 4 milligauss, which is the permissible exposure in residential buildings and is considered chronic exposure.

Taking into account the information available in developed countries and the thresholds to which electricity companies voluntarily commit in those countries, the Israeli Ministries of Health and Environmental Protection have proposed a value of 10 milligauss as a threshold applicable to workplaces for an 8-hour workday.

However, there are places where exposure is limited and the exposure time is defined, such as: workplaces, public transportation, private transportation, transit areas, etc.

• Although there is no conclusive evidence regarding the type of relationship between exposure time and the health effects of exposure, it is suggested to adopt the precautionary principle (Precautionary principle) and to assume that there is a direct relationship between the duration of exposure and the level (extent) of exposure.

Based on this assumption, a value of 10 milligauss can be used in workplaces as a threshold referring to an 8-hour workday, for the purpose of assessing the exposure level as a function of exposure duration.

Recommendations of the International Agency for Research on Cancer

- The International Agency for Research on Cancer(IARC) determined in 2001 that electrical installations exposing the public **over time** (prolonged exposure) to an average magnetic field that is high are a possible factor in cancer (Possible Carcinogenic). This determination is based on studies that showed that among children exposed **over time** to a magnetic field above 3-4 milligauss, the percentage suffering from leukemia (blood cancer) was one and a half times higher than among children exposed to a lower-intensity magnetic field.

Study Data

- From studies conducted on this topic worldwide and from the experience accumulated after performing thousands of measurements across the country, it can be learned that the average exposure per day in over 90% of residential buildings does not exceed 0.4 milligauss.
- The Ministry of Environmental Protection recommends that electrical installations be designed and operated in accordance with the precautionary principle, in order to reduce as much as possible the magnetic fields to which the public in Israel is exposed, from various components of the electrical grid.

Contact Details:

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Sincerely,
Batya Pardes

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