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October 16, 2013

**U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001**

**Re: Response to an Apparent Violation in Inspection Report No. 03034199/2013001
(DNMS)**

Dear Sir/Madam:

Please accept this letter as our response to the above referenced violation. The referenced violation states that "the licensee commits to either possessing and using, or having access to and using, a radiation survey meter". This is to inform you that we have purchased a radiation survey meter and we are enclosing the information of the equipment.

1. This corrective action has already been implemented.
2. Our safety officer is aware of all the safety code requirements and has full intention to adhere and comply. We can state with confidence that we have always taken the issue of securing the gauge very seriously and have complied with all the applicable safety standards. The prior inspection conducted on June 28, 2004 proves that we have taken the safety issue seriously and no violations were identified. We hope the above explanation is satisfactory to NRC. Thanks for your consideration.

If you have any further questions please do not hesitate to call. Thanks again.

Very truly yours,

ENGINEERING SERVICES, INC.

By:

**Hakim Shakir, P.E.
Principal**

Enclosure:

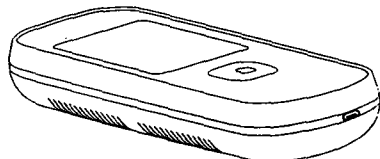
Mr. Aaron T. McCraw, Chief
Material Inspection Branch
Division of Nuclear Materials Safety
Region III
2443 Warrenville Road
Suite 210
Lisle, IL 60532-4352

JE07

Instructions

Dosimeter SMG2

beta-gamma and X-ray radiation measuring instrument



The product design printed on the Instructions can be different from the real product without previous notice.

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4.2.4 Configuration - Display

By moving the joystick up / down, please select the desired brightness of the display by setting the "mark" next to the desired level. By moving the joystick right or left you exit to the previous menu.

4.2.5 Configuration - Measurement settings

This menu allows you to change the measurement settings. The emergency alarm thresholds corresponding to increased and high levels of radiation are set by default to 0.35 and 0.6 µSv/h, respectively. The user can change the threshold values. By pressing the joystick up / down, please select the item you'd like to change, press the joystick button, increase or decrease the value by pushing up/down buttons. Confirm the change by pressing the joystick button. By moving the joystick right or left you exit to the previous menu. Similarly, you can change the Measurement time by selecting from the three proposed values 20, 40, 60 seconds.

4.2.6 Configuration - Factory settings

In this menu item user may reset the device to the factory settings. Upon confirmation the following parameters will be set:

Language	English
Display brightness	Standard
Volume	Reduced
Flight mode	Disabled
Particles signal	Enabled
Keyboard	Enabled
The threshold of increased radiation	0,35 µSv

1 Purpose

The dosimeter SMG-2 is designed to assess the level of background radiation, as well as detection of objects contaminated by radioactive elements. The dosimeter estimates the background radiation by measuring the magnitude of ionizing radiation power (gamma-radiation and flow of beta-particles), as well as X-rays. The dosimeter continuously collects information about the radiation received and stores it in non-volatile memory.

Later, this information can be viewed on the instrument itself and on the computer, using micro-USB cable and specialized software for this. Based on this data we can estimate the dose of radiation received by the user for the last hour, day, etc.

2 Contents

The household dosimeter SMG 2 comes in the following set:

Dosimeter SMG 2	1 pc.
Instruction	1 pc.
Battery	1 pc.
Charger	1 pc.
USB cable	1 pc.
Package	1 pc.

3 Technical specifications

The range of ambient dose equivalent indication	µSv / h	from 0.01 to 999
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The threshold of high radiation	0,6 µSv
Measurement time	40 seconds
Alarm	Enabled

4.3 Information screen

The Information screen displays the name of the manufacturer, web-site, telephone of customer support, the device name & the version of the software.

4.4. Mode selection screen

4.4.1. Economy mode

A long press (more than 2 seconds) on the joystick sets the device to the power saving mode. In this case, the screen turns black, the clock continues its course, and the device will continue to monitor background radiation. In case of exceeding the Alarm threshold, the device goes from sleep mode to display mode indication. To save power, the device automatically switches to the economy mode in the absence of user activity.

Caution! In order to switch the device from the power saving mode, press the joystick and hold it pressed for about 2 seconds.

4.4.2. Turning off

When you select Turn off mode in the menu and press the joystick button for a long time, the device screen turns off and the dosimeter will completely turn off. In this case, the clock continues its course, and the device does not monitor background radiation. Emergency alarm is not triggered!

Caution! In order to switch the device out of complete turn off mode, press the joystick and hold it pressed for about 5 seconds.

Reproducibility of indications (at confidential probability 0.95), where P equals dose in µSv / h	%	15+6/P
The levels of sound and graphic alarm	µSv / h	adjustable
The result accumulation time	second	20-40-60
Leading indication	-	continuously
Number of storable measurement points		more than 17520 (average per hour, within 2 years)
The battery	1 piece	Li-ion Akku (BL-8N 3.7V or analog)
The time of continuous operation of the product, not less than	hour	450 in economy mode
Overall dimensions height x width x thickness, not more than	millimeter	111x46x19

4 Operation

To operate the device, please use the joystick. To navigate through the menu of the joystick press

4.5. Text report screen

Having selected the report screen, the user can generate data on the average or cumulative dose for the selected date of measurement. Information is available for a day, a month, a year. The report is generated by the command "form".

Caution! It is important to enter the correct time and date when you first turn on the device. Make sure the battery level is OK and prevent it from being fully discharged. Timely charging will extend the service life of the battery and will not allow the skipping of measurement periods in the reports.

4.6. Graphic report screen

Having selected this screen, the user may generate data on the average or cumulative dose for the selected measurement date in the form of a graph. Information is available for a day or a month. Days are on the horizontal axis, the value of background radiation is on vertical axis.

5. Device operation

The owner bears the sole responsibility for the use of the dosimeter and the consequences of its application.

- keep the device dry. Precipitation, humidity and all types of liquids can corrode electronic circuits. If your device gets wet, remove the battery and fully dry the device. Be sure to have the device examined in a specialized workshop.
- do not use or store the device in dusty, dirty rooms.
- do not store or use the device in high temperatures. High temperatures can shorten the life of the electronic device, spoil the battery and warp or melt certain plastic parts. The device thermometer readings are provided for reference due to the fact that the sensor is located inside the case. Discrepancies with the true values in the range 4 ... 5 degrees are acceptable.
- prevent the device from dropping, knocking and shaking.

up, down, left or right. Press the joystick to select a menu item.

Switching on the device for the first time.

To turn on the dosimeter, you need to open the back lid and insert the battery. When the battery is inserted the contact pads should touch the connector lamels situated on the motherboard. To start the device, press and hold down the joystick button. There should be a splash screen on the device display after it is turned on. You will be asked to enter the current time and date. Treat this procedure responsibly, since this information is used when the reports are generated.

4.1. Main screen

The main screen displays the measured radiation, a message concerning the dose of radiation received within the last day or the last hour. At the top of the screen there is an indication of ambient temperature, operating mode, the buzzer (on or off, flight mode), and connection of USB-cable, battery status and the current time. The interactive diagram of the radiation situation is located over the indication of the current background radiation.

Under it there is a scale of the measurement interval. At the bottom of the screen there are pictograms of the main screens. There are six of them: main screen, configuration screen, device information screen, power management screen, reports screen and graphical display of accumulated radiation screen. The orange color of the icon indicates that the screen is currently active. The device has an intuitive interface. However, we recommend reading the instruction carefully.

To navigate through the screens, please press the joystick to left or right. By pressing the joystick up or down in the main menu, the user can select the desired information - the average per day or per hour. If the alarm sounds (elevated or high radiation), pressing the joystick will temporarily stop the alarm.

- do not use harsh chemicals, solvents for dry cleaning or caustic cleaning agents to clean the device.
- use only original chargers, batteries and accessories.
- do not disassemble the dosimeter yourself. Repairs of the dosimeter must be performed by specialists.
- do not expose the battery to short-circuit.
- do not open or burn down the battery.
- keep the dosimeter and accessories out of the reach of children. Young children can inadvertently cause harm to them or damage the device.

Caution! The manufacturer reserves the right to make changes and improvements in the functioning of the device. The design of the dosimeter allows you to update the device software via the USB cable. New versions and the upgrade procedure described in detail on the official website www.haak-elektronik.com

6. Reference information

µSv/h (read as microsievert per hour) is a unit of measurement of radiation.

- 0.22 µSv/h - Normal background radiation, which everyone is exposed to in everyday life;
- 1.00 µSv/h - Exposure of the flight crew traveling from Tokyo to New York City via the North Pole;
- 2.28 µSv/h - The average permissible exposure level for nuclear industry workers;
- 11.42 µSv/h - The level that dramatically increases the likelihood of cancer development;
- 40.00 µSv during lifetime - Reason for evacuation of people after the Chernobyl disaster;
- 114.15 µSv in a single dose - Causes radiation sickness with nausea and reduced white blood cell count, but not death;
- 570.77 µSv in a single dose - Half of the people exposed to such a dose of radiation, dies within a month.

Miscellaneous

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4.2. Configuration screen

The configuration screen is designed for customization of the device. By pressing the joystick up / down the user can select of the six main items - Language, Date and Time, Alarms, Display, Measurement settings, Factory settings. The current item is highlighted. To select the desired menu item the user should press the joystick button.

4.2.1 Configuration - Language

The user can choose one of five languages:

German, English, French, Russian and Italian.

To navigate through menu press the joystick up or down to select the language - press the joystick button, to return to the previous menu - press the joystick right or left.

4.2.2 Configuration - Date and Time

By pressing the joystick left or right select the item you want to change - hour, minute, day, month or year. The selected item is highlighted in orange. By pressing the joystick up or down set the desired value. To exit without saving - Select "NO", to accept the settings and exit, select "OK" and press the joystick button.

4.2.3 Configuration - Alarms

By pressing the joystick up / down, the user can select one of five settings - Volume, Flight mode, Particles signal, Alarm and Keyboard. The current item is highlighted in color. To edit the selected item, the user needs to put or remove a check mark next to the setting. By moving the joystick right or left you exit to the previous menu.

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