



## **KW-GARD™** *Operation and Maintenance Instructions*

*Your KW-GARD™ RF Radiation Suit has been carefully designed and manufactured to provide you with RF Safety protection and reliability. In order to effectively use this product and care for it properly, please follow these step-by-step instructions:*

### **I. Donning the KW-GARD™ Suit**

Before stepping into the KW-GARD™ suit, make sure all appropriate zippers and Velcro fasteners are opened fully to allow for optimum entrance into the suit. After donning the suit, completely re-close the long zipper and Velcro strip located at the front of the suit.

### **II. Wearing the Socks and Gloves**

#### ***Method No. 1:***

To wear the KW-GARD™ socks, first pull the pant cuffs of the suit up over the calf, and put on the socks so that they extend maximally over each calf. Then pull the pant cuffs down over the socks, and secure the cuffs using the zippers and Velcro straps provided.

In a similar fashion, repeat this procedure for the KW-GARD™ gloves. To avoid any difficulty working with the “stickiness” of the Velcro fasteners, it is recommended that your leather work gloves be put on over the KW-GARD™ gloves prior to making these adjustments.

#### ***Method No. 2:***

As an alternative to the above instructions, the KW-GARD™ socks and gloves may be worn in the fashion of pulling them *over* the pant and sleeve cuffs. In this case, be sure that all appropriate zippers and Velcro straps are securely closed before putting on the socks and gloves.

### **III. The KW-GARD™ Hood**

*Note: Use of the KW-GARD™ hood is required for scenarios which exceed the exposure levels as indicated in the Table on the reverse side of this instruction card.*

The KW-GARD™ hood makes use of a built-in bill, on which the underside has fastened a Velcro patch. Remove the mating piece of Velcro which is attached to this patch and, after exposing the adhesive surface, carefully affix it to the top of the bill of your hard-hat. This will allow the hood to turn with the head, improving visibility.

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(continued)

## W A R N I N G - Read Carefully!

• High-intensity fields can be dangerous! As observed in Standard Operating RF work Procedures, under no circumstances or conditions is it recommended to touch, handle, or come into contact with active, energized conductors. In the case of AM tower operations, follow the general rules of practice and do NOT touch the tower structure unless you are insulated from ground.

*NOTE: Due to KW-GARD™'s effectiveness, it will not under ordinary circumstances result in a potentially hazardous effect of high-field arcing (so-called "RF biting") on your body. If you experience body heating while using KW-GARD™, this implies that you are in an extremely intense RF field and should remove yourself promptly from the immediate area.*

- Care should be taken while implementing work procedures, such as the carrying of metallic structures or resonant lengths of cable, as these types of items could become passive radiators.
- Before using KW-GARD™, consult with the site manager or Safety Officer to determine the RF Field environment!
- For full OSHA compliance to ANSI/IEEE C95.1-1992, KW-GARD™ socks and gloves *must* be worn at frequencies below 300 MHz.

When used properly, this garment will support compliance above the Maximum Permissible Exposure (MPE) levels as delineated in ANSI/IEEE C95.1-1992 according to the following table:

Minimum Configuration	*Operation from 1 Mhz-500 MHz	Operation from 500 Mhz-900 MHz	Operation from 900 MHz-3 GHz
<i>Coverall Only</i>	<b>1500% MPE</b>	<b>500% MPE</b>	<b>Hood Required</b>
<i>Coverall + Hood</i>	<b>2000% MPE</b>		
<i>*For full OSHA compliance, KW-GARD™ socks and gloves must be worn at frequencies below 300 MHz for protection against induced currents that may manifest in high -field environments.</i>			

• KW-GARD™ should be dry-cleaned in order to maintain its high performance and ability to prevent the shocks and bites that can occur in extremely high RF fields. The hood, however, may be hand-washed and air-dried. Follow the Care instructions as printed on the inside garment label.

• The KW-GARD™ fabric is very durable and can withstand the same level of wear and tear as standard work coveralls. However, as this is a specially designed material, care should be taken to avoid damaging the fabric. If KW-GARD™ becomes ripped or torn, it should be returned to Euclid for repair.

***If you have any questions about using KW-GARD™, call (516) 421-9507.***