

Honeywell International

December 30, 2013

Licensing Branch

Office of Federal and State Materials and Environmental Management Programs

Division of Materials Safety and State Agreements

Licensing Branch

Two White Flint North

11545 Rockville Pike

North Bethesda, MD 20852-2738

RE: Request for Amendment of GA-571-D-107-B / Model 4203

Honeywell International is requesting that the SS&D for the Honeywell International, Inc. Model 4203 (GA-571-D-107-B) be amended. The existing nuclear device design will continue to be sold in the future as the Model 4203. However, we are requesting some minor changes to ancillary portions of the device involving mounting and devices incorporating these changes will be sold as Model 4303. We are requesting that both the Model 4203 and Model 4303 be listed on the same SS&D certificate since the nuclear device designs are very similar and the source holder / shutter portion is identical for both models. No changes are requested that impact radiation safety, radiation profiles or the reliability of the device. The design of the main portion of the device, including source holder assembly, shutter mechanism, shielding, etc. will remain unchanged, except for one hole drilled for a 10-32 screw which does not impact radiation profiles. Iso-distance radiation profiles remain unchanged for all isotopes. The purpose for the requested changes is to permit mounting the nuclear device from the bottom of the device instead of the existing top mount. A copy of the Application is included as Attachment 1. A copy of the existing SS&D registration, GA-571-D-107-B, is included as Attachment 2. The Model 4203 nuclear device has been manufactured and sold for approximately 15 years without incident.

A set of engineering drawings has been included that shows the parts that have changed between Models 4203 and 4303. There are two drawings titled 'CWS Scanner SX15 Comparison 6599990300/08638500 showing a breakdown of the Model 4203 and 4303 assemblies and the parts involved in the amendment. These two drawings are included as Attachment 3A and 3B. It should be noted at this point that the term Sx15 is a Honeywell internal descriptor referring to both the Model 4203 and 4303 devices. Also, some drawings refer to X-ray. This is because some parts are also used on an electronic X-ray device. Part number 07679600 is used on the

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Model 4203 device to hold a printed circuit board. It serves no other purpose other than to hold a PCB and is not used on the Model 4303 device. As shown on the comparison drawings, this part is replaced by parts shown on drawing numbers 6599990302 and 6599990304, which are included as Attachments 4A and 4B respectively.

Drawing 6599990305, titled CWS Scanner Enclosure, S15 (Modified) shows the location of a hole drilled in the main shielding to accommodate a 10-32 screw and is included as Attachment 5. This hole does not adversely impact the function of the device and has no impact on radiation profiles.

Drawing 6599990303, included as Attachment 6, depicts a small aluminum mounting block used to assist in mounting the device inside the head. This is a newly designed part, not previously used on the Model 4203 device. The purpose is to provide a mounting point when the Model 4303 device is secured from the base when mounting instead of from the top as in the Model 4203.

Drawing 6599990301, included as Attachment 7, depicts a newly designed part used in the Model 4303 that replaces both 07754200 and 07712700 used in the Model 4302 device. This part also serves the purpose of providing four 0.20 inch holes used for mounting the Model 4303 device.

The o-ring seal, 25000655 and kapton window, 00482400 are used in both the Model 4203 and Model 4303 devices. However, the window retaining frame 07712400 used on the Model 4203 device has been slightly changed as shown in drawing 6599990090, included as Attachment 8.

We are also requesting some additional updates to the SS&D that will affect both Models. Requested amendments to the registration are as follows.

SS&D Changes Requested

1. NO: The State of Georgia no longer provides support for SS&D registrations, so Honeywell is requesting that the SS&D GA-571-D-107-B be re-issued with a number issued by the U.S. Nuclear Regulatory Commission.
2. MODEL: 4203 and 4303 Series
3. DISTRIBUTOR: Unchanged
4. MANUFACTURER: Honeywell ASCa, Inc. 500 Brooksbank Avenue North Vancouver, BC V7J 3S4 Canada (Unchanged)
Honeywell International 3079 Premiere Pkwy Duluth, GA 30097 (Add)
Honeywell Measurex, Ltd. Waterford Industrial Estate Waterford, Ireland (Remove)

All manufacturing procedures, including all quality control procedures are unchanged and identical, regardless of manufacturing location.

5. DESCRIPTION: Under the 'DIMENSIONS' section, all references to 'Head Designation' and 'Minimal Outer Dimensions' should be eliminated. These designations are primarily listed for marketing purposes and are not complete or accurate. The information in this section should be replaced by the following text. 'Gauge Models 4203 and 4303 are mounted inside heads (enclosures) of various outer dimensions, with or without web guides, the purpose of which is to protect the nuclear device from contamination by dust and dirt or any other potential contaminant. The physical size of the heads will always be of a size to prevent access to radiation levels (profiles) that exceed the maximum levels authorized by the SS&D.'
6. LABELING: Regulations cited in paragraph 1 should be amended to read as follows, replacing the text referring to regulations of the State of Georgia. 'The devices are labeled in accordance with the requirements of 10CFR32.51 for Generally Licensed users and 10CFR32.32 for Specifically Licensed users.'
7. PROTOTYPE TESTING: Under the list of manufacturers, models and ANSI classifications, the following change should be made. Under 'Manufacturer' in every case where 'Amersham/AEA Technology' is listed as a manufacturer, this should be changed to Amersham/AEA Technology/ Isotope Products Laboratories/Eckert & Ziegler.
8. EXTERNAL RADIATION LEVELS: The external radiation levels for the new Model 4303 nuclear device are unchanged from the existing Model 4203 nuclear device.

If you have any questions, please let me know. My direct telephone number is 770-689-0186, my cellular number is 404-242-2489 and my E-mail is gary.caines@honeywell.com.

Sincerely,



Gary L Caines,
Radiological Operations Program Manager

Enclosures: Attachments 1 - 7

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FedEx carbon copy and
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UNITED STATES OF AMERICA

BILL NUMBER

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