

From: <petra.klein@ims-gmbh.de>
To: <wrw1@nrc.gov>
Date: 8/6/01 8:05AM
Subject: Final questions

Petra Klein@IMS
06.08.2001 14:02

Dear Mr. Ward,

I apologize that you did not receive my answer last Friday.

1. In-beam radiation level:

A calculation of the maximum radiation level in the opening of the measuring gauge shows that the max. dose rate to be expected will be around 150 R/hr (1.5 Sv/hr) at min. 5 cm distance from the surface and also in the center of the opening. It does not vary a lot, because at 5 cm distance the dose rate is caused mostly by 1 source and the more you get closer to the center of the gap the influence of the other sources increases. So the dose rate in the center will be around 150 R/hr (1.5 Sv/hr) also.

2. Source label:

Corresponding to our letters at the end of June we modified our radiation labels. Attached you find a picture of the updated version of the label. It includes the words "Caution, radioactive material". The source activity is always the nominal activity and the year is the year of the manufacture of the source. The distance now indicates the dose rate 0.25 mrem/hr (2.5 μ Sv/hr) instead of 0.75 mrem/hr (7.5 μ Sv/hr). This is due to a change of the german regulations on August 1st, 2001.

(See attached file: Sourcelabel2.jpg)

As you can see on the picture, now there is not much space to add the month of the manufacture of the source. Our opinion is that at the first sight people should realize the most important data, such as warning and identification data. We believe more data on this label could cause confusion. The month of the "birthday" is not so important as the other data on the label because of the rather long half life of Cs137 of 30 years. If a person would like to calculate the exact actual activity this data will be documented in the paper documentation of the source.

Thank you for your assistance.

Best regards

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by nrcgwia.nrc.gov; Mon, 06 Aug 2001 08:04:50 -0400
Received: from nrc.gov
by smtp-gateway SMTPœ id IAA18100
for <wrw1@nrc.gov>; Mon, 6 Aug 2001 08:01:24 -0400 (EDT)
From: petra.klein@ims-gmbh.de
Received: by ims-gmbh.de(Lotus SMTP MTA v4.6.6 (890.1 7-16-1999)) id C1256AA0.00422E3B ; Mon,
6 Aug 2001 14:02:52 +0200
X-Lotus-FromDomain: IMS
To: wrw1@nrc.gov
cc: John.Buckman@IMSSystemsInc.com, Frank.Festa@IMSSystemsInc.com,
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Message-ID: <C1256AA0.00422D13.00@ims-gmbh.de>
Date: Mon, 6 Aug 2001 14:02:45 +0200
Subject: Final questions
Mime-Version: 1.0
Content-type: multipart/mixed;
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Content-Disposition: inline



CAUTION: RADIOACTIVE MATERIAL
Nuclide/Activity: Cs137/370 GBq
Source no./year: 1161CG/2001
Capsule type: X38/4
Distance 15 kVh 100 cm

140110C
140110B

Mail Envelope Properties (3B6E8803.8F0 : 22 : 30960)

Subject: Final questions
Creation Date: 8/6/01 8:02AM
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Recipients

nrc.gov

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MESSAGE

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Header

Size

2058

380900

846

Date & Time

08/06/01 08:02AM

Options

Expiration Date:

None

Priority:

Standard

Reply Requested:

No

Return Notification:

None

Concealed Subject:

No

Security:

Standard