

Damiano, Debra

From: Mike Rose <MikeR@ir100.com>
Sent: Wednesday, September 30, 2015 11:03 AM
To: Allen, William
Subject: [External_Sender] RE: Table 5-1 Question

Mr. Allen,

The reported values in Table 5-1 were measured 1 meter from the CTUs as follows:

- The maximum NCT value of 1.6 mrem/hr was measured from an IR-50 tested as OP-100 CTU-1 that contained an IR-50 payload. With a 110 Ci Ir-192 source, the maximum 1-meter value was measured as 1.5 mrem/hr. For the maximum 120 Ci source, this value was increased by the ratio of $120/110 = 1.091$, which equals 1.6 mrem/hr.*
- The maximum HAC value of 1.9 mrem/hr was measured from an IR-50 tested as OP-100 CTU-4 that contained an IR-50 payload. With a 83 Ci Ir-192 source, the maximum 1-meter value was measured as 1.3 mrem/hr. For the maximum 120 Ci source, this value was increased by the ratio of $120/83 = 1.446$, which equals 1.9 mrem/hr.*

This data was extracted from the Packaging Technology (PacTec) test report TR-002, Rev. 0, dated August 31, 1998.

If you have any questions or concerns please do not hesitate to contact me at the information below.

Regards,

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<https://youtu.be/MbZMITk0SZs>

From: Allen, William [mailto:William.Allen@nrc.gov]
Sent: Monday, September 28, 2015 11:25 AM
To: Mike Rose
Subject: Table 5-1 Question

Please identify the source of the following values reported in Table 5-1: 1.6 mrem/hr reported 1 meter from the surface under NCT and 1.9 mrem/hr reported 1 meter from the surface under HAC.

Thanks, Chris Allen

Received: from HQPWMSMRS01.nrc.gov (172.17.48.10) by HQPWMSMRS03.nrc.gov (172.17.48.12) with Microsoft SMTP Server (TLS) id 15.0.1044.25 via Mailbox Transport; Wed, 30 Sep 2015 11:03:03 -0400

Received: from HQPWMSMRS05.nrc.gov (172.17.48.14) by HQPWMSMRS01.nrc.gov (172.17.48.10) with Microsoft SMTP Server (TLS) id 15.0.1044.25; Wed, 30 Sep 2015 11:03:02 -0400

Received: from mail1.nrc.gov (148.184.176.41) by HQPWMSMRS05.nrc.gov (172.17.48.14) with Microsoft SMTP Server id 15.0.1044.25 via Frontend Transport; Wed, 30 Sep 2015 11:03:02 -0400

Received-SPF: Pass (mail1.nrc.gov: domain of MikeR@ir100.com designates 50.197.205.178 as permitted sender) identity=mailfrom; client-ip=50.197.205.178; receiver=mail1.nrc.gov; envelope-from="MikeR@ir100.com"; x-sender="MikeR@ir100.com"; x-conformance=spf_only; x-record-type="v=spf1"

Received-SPF: None (mail1.nrc.gov: no sender authenticity information available from domain of postmaster@exchange.3endt.com) identity=helo; client-ip=50.197.205.178; receiver=mail1.nrc.gov; envelope-from="MikeR@ir100.com"; x-sender="postmaster@exchange.3endt.com"; x-conformance=spf_only

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X-SBRS: 4.1

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X-fn: image003.jpg

X-IronPort-Anti-Spam-Filtered: true

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Thread-Topic: RE: Table 5-1 Question

Subject: [External_Sender] RE: Table 5-1 Question

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by mail1.nrc.gov with ESMTP; 30 Sep 2015 11:03:00 -0400
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From: Mike Rose <MikeR@ir100.com>
To: "Allen, William" <William.Allen@nrc.gov>
Thread-Topic: Table 5-1 Question
Thread-Index: AdD6GhMld++MzlyBS0qBdutrWRtJJgBdrhvA
Date: Wed, 30 Sep 2015 15:02:59 +0000
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In-Reply-To: <6c42ad31f6d74d4a98086995be3bfabb@HQPWMSMRS03.nrc.gov>
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Content-Language: en-US
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X-MS-TNEF-Correlator:
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 type="multipart/alternative"
MIME-Version: 1.0
Return-Path: MikeR@ir100.com
X-MS-Exchange-Organization-Network-Message-Id: 23229995-363f-4ee2-6967-08d2c9a83ccd
X-MS-Exchange-Organization-AVStamp-Mailbox: SYMANTEC;1;0;info
X-MS-Exchange-Organization-AuthSource: HQPWMSMRS05.nrc.gov
X-MS-Exchange-Organization-AuthAs: Anonymous