

**From:** "Ken Smith" <kgsmith@attglobal.net>  
**To:** "Ujagar Bhachu NRC" <usb@nrc.gov>  
**Date:** 4/8/02 9:40AM  
**Subject:** CM100

Dear Mr Bhachu,

Thankyou for your advice on the phone today.

As I said I believe we are close to answering all your questions. We cannot complete the radiation survey until the source housing is constructed. I estimate this will be ready in about three weeks.

I would to confirm whether the recently conducted dosimeter calibrations are acceptable to you. Please could you email me your fax number and I will fax you the test certificates.

As I mentioned we would like to incorporate a minor change to the diameter of the shutter into our re-submission. This change has very little affect on the dose rates, and in any case we will provide radiation survey results taken with the new shutter diameter. We will include updated drawings with our re-submission and a description of all changes made to the drawings.

Best Regards

Ken Smith  
Scantech International

**CC:** "Carl Baldwin KSS" <cbaldwin@kanawhascales.com>

Received: from igate.nrc.gov  
by nrcgwia.nrc.gov; Mon, 08 Apr 2002 09:40:05 -0400  
Received: from nrc.gov  
by smtp-gateway ESMTPOe id JAA04489  
for <usb@nrc.gov>; Mon, 8 Apr 2002 09:38:15 -0400 (EDT)  
Received: from host (slip-202-135-78-45.ad.au.prserv.net[202.135.78.45])  
by prserv.net (out4) with SMTP  
id <20020408134043204063ugive>; Mon, 8 Apr 2002 13:40:45 +0000  
Message-ID: <000901c1df02\$fd46f8a0\$2d4e87ca@host>  
Reply-To: "Ken Smith" <kgsmith@attglobal.net>  
From: "Ken Smith" <kgsmith@attglobal.net>  
To: "Ujagar Bhachu NRC" <usb@nrc.gov>  
Cc: "Carl Baldwin KSS" <cbaldwin@kanawhascales.com>  
Subject: CM100  
Date: Mon, 8 Apr 2002 23:09:48 +0930  
Organization: Scantech  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-Mailer: Microsoft Outlook Express 5.50.4133.2400  
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400

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Best Regards

Ken Smith  
Scantech International

**From:** Ujagar Bhachu  
**To:** Ken Smith  
**Date:** 6/6/02 8:35AM  
**Subject:** Re: SS&D application for CM100, Scan Technologies

Dear Mr. Smith:

The NRC's Metrication Policy (57 FR 46202) requires that documents specific to a registration certificate holder, such as the registration certificate, include dimensions in the units employed by the registration certificate holder. In addition to including the units employed by the registration certificate holder, it is recommended that registration certificates include dual-units as specified below:

All measurements should be stated in the units employed by the registration certificate holder, followed by the appropriate English or International System of Units conversion in parentheses.

All measurements not provided by the applicant should be specified in English units, followed by the converted International System of Units value.

The method of stating measurements for a specified property should be consistent throughout the document. If the measurement of the property is first stated in International System of Units, with the English conversion in parentheses, then all other measurements should be stated in International System of Units, with the English conversion in parentheses.

As a general rule when compiling sealed source registration certificates we would use both English and International Systems of Units. However, as a general practice the measured radiation doses are stated as mR/hr and effective doses are stated for example as mrem/hr (mSv/hr).

Sincerely,

Ujagar S. Bhachu

>>> Ken Smith <k.smith@scantech.com.au> 06/06/02 03:23AM >>>

Dear Mr Bhachu,

Thankyou for your earlier advice on this application. We have now completed the radiation survey on a newly constructed CM100 source housing and I am completing the new application.

I notice that the previous application used uSv/hr and mRem/hr is different places. I think it would be best to use use the same units throughout. Could you tell me whether your preference is for uSv/hr or mRem/hr?

Many Thanks  
Ken Smith

----- Original Message -----

From: "Ujagar Bhachu" <USB@nrc.gov <<mailto:USB@nrc.gov>>>

To: <[kgsmith@attglobal.net](mailto:kgsmith@attglobal.net) <<mailto:kgsmith@attglobal.net>>>

Sent: Tuesday, April 09, 2002 3:07 AM

Subject: Re: SCAN TECHNOLOGIES MODEL - CM100

Hi KEN:

During our telephone conversation of this morning following four items were discussed and the guidance was provided to you as follows:

1. Is Scan Technologies required to respond to the USNRC request for additional information (RAI) within certain time frame?

Normally the response to a RAI is required in 30 days. Since the sealed source and device review of Scan Technologies application was discontinued, therefore, the 30 days response time does not apply. You may respond any time, when you have developed the information we requested.

2. Scan Technologies is close to answering all NRC questions. We cannot complete the radiation survey until the source housing is constructed. Is it OK to submit the answers we have and submitted the radiation surveys at a later date?

You are at liberty to submit any information in support of your application at any time. However, please be advised that NRC prefers to receive all the requested information at one time. In the interest of efficiency and effectiveness NRC normally would initiate the review process of an application when all the requested information has been received from the applicant.

3. You requested our fax number as you wanted to fax to NRC some test certificates. The purpose of this submittal is to obtain an acceptance by NRC of the recently conducted dosimeter calibrations by Scan Technologies.

It is difficult to review test certificates in isolation and provide an acceptance or rejection. Therefore we suggest that you obtain from your USA representative a copy of the ANSI 538-1979 and ANSI 323 and ensure that you have met the approximate requirements for the calibration and measurement of Stray Radiation.

You may also contact the National Health Physics Society whose headquarter is in McLean, Virginia, USA. They can be reached at (703) 790-1745 and have a webpage at <<http://www.hps.org>> for further information regarding your question.

4. You mentioned that you are planning to use in the future alternative radiation shielding for the source housing to one used in the prototype tests.

Please note that NRC will require chemical, mechanical, configuration details and data supporting the containment integrity of the final design for the sealed source housing shielding during the life of the gauge.

Our FAX number is 301-415-5369.

If you have any questions please contact me at (301) 415-7894.

Ujagar S, Bhachu

>>> "Ken Smith" <kgsmith@attglobal.net <mailto:kgsmith@attglobal.net>>

04/08/02 09:39AM >>>

Dear Mr Bhachu,

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Best Regards

Ken Smith  
Scantech International

**CC:** Charles Cox; John Jankovich; Marissa Bailey