

**From:** "John Buckman" <John.Buckman@IMSSystemsInc.com>  
**To:** "Bill Ward" <wrw1@nrc.gov>  
**Date:** Wed, Oct 11, 2000 7:48 AM  
**Subject:** IMS Information

Good morning Gentlemen,

Please find attached a digital photo of the labels that we place on the source holder.

Also, please see the text below related to the testing of the source shutters according to Mrs. Klein, our quality control manager and RSO of IMS GmbH.

I hope this answers the remaining questions, and we look forward to receiving approval today.

Very Best Regards,

John Buckman  
IMS Systems Inc.

Text From Mrs. Klein

1. Attached you find a digital photo of the label:

(See attached file: P1110006.jpg)

The label for the Nucor source holders are marked permanently with the following underlined text:

S-Type Cs137 Nr. 1119 GP (Label 1) or 1126 GP (Label 2) or 1127 GP (Label 3)

Ch. Verb. chloride

Act: 1850 GBq = 50 Ci 1999


Abs. TIAS 154

7,5  $\mu$ Sv/h = 0,75 mrem/h in 70 cm

Dosis in 10 cm 100  $\mu$ Sv/h = 10 mrem/h

2. According to the international standard ISO 7205 ("Radionuclide gauges - Gauges designed for permanent installation", Edition 1986) one source holder of this type was tested for endurance with more than 25,000 operating cycles. This test did not influence the function of the shutter mechanism. Also the mechanical parts had been in good condition after this test, so that the shutter mechanism will work a much longer time.

**CC:** "Ujagar Bhachu" <usb@nrc.gov>



**IMS Isotopen Meßsysteme GmbH**

S-Typ	Nr.	Ch. Verb.
Akt:	Bq $\cong$	Ci
Abs. TIA		19
7,5 $\mu$ Sv/h $\cong$ 0,75 mrem/h in		cm
Dosis in 10 cm		$\mu$ Sv/h $\cong$ mrem/h

**Radioactive**

Received: from igate2.nrc.gov  
(igate.nrc.gov [148.184.176.31])  
by nrcgwia.nrc.gov; Wed, 11 Oct 2000 07:47:17 -0400  
Received: from nrc.gov  
by smtp-gateway ESMTPE id HAA07798;  
Wed, 11 Oct 2000 07:46:05 -0400 (EDT)  
Received: from JOHN (1.wxfr4.xdsl.nauticom.net [209.195.163.34])  
by gonzo.nauticom.net (8.10.1/8.8.7) with SMTP id e9BBivr00890;  
Wed, 11 Oct 2000 07:47:57 -0400 (EDT)  
Message-ID: <003701c03377\$9d3eb070\$6800000a@ims.LOCAL>  
From: "John Buckman" <John.Buckman@IMSSystemsInc.com>  
To: "Bill Ward" <wrw1@nrc.gov>  
Cc: "Ujagar Bhachu" <usb@nrc.gov>  
Subject: IMS Information  
Date: Wed, 11 Oct 2000 07:37:18 -0400  
MIME-Version: 1.0  
Content-Type: multipart/mixed;  
boundary="-----\_NextPart\_000\_0033\_01C03356.15AB3640"  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-Mailer: Microsoft Outlook Express 5.00.2919.6700  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6700

**Mail Envelope Properties** (39E4536E.E3D : 13 : 24125)

**Subject:** IMS Information  
**Creation Date:** Wed, Oct 11, 2000 7:37 AM  
**From:** "John Buckman" <John.Buckman@IMSSystemsInc.com>

**Created By:** GWIA:John.Buckman

**Recipients**

Post Office OWFN\_DO.owf1\_po  
WRW1 (William Ward)

Post Office TWFN\_DO.twf4\_po  
USB CC (Ujagar Bhachu)

**Domain.Post Office**

OWFN\_DO.owf1\_po  
TWFN\_DO.twf4\_po

**Route**

OWFN\_DO.owf1\_po  
TWFN\_DO.twf4\_po

**Files**

	<b>Size</b>
MESSAGE	1271
Part.001	2184
John Buckman.vcf	249
P1110006.jpg	337976
Header	915

**Date & Time**

Wednesday, October 11, 2000 7:37 AM

**Options**

**Expiration Date:** None  
**Priority:** Standard  
**Reply Requested:** No  
**Return Notification:** None

**Concealed Subject:** No  
**Security:** Standard