

Customer :
SCRAP & RECYCLE Co., Ltd.

Radiation Detection Performance Test for KOREA

《 MIRION/RADOS Model:RTM911 》

Test Report (Job № : 1700-0000-1)

February 2017

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(Customer)

SCRAP & RECYCLE Co., Ltd.

Report of Radiation Detection Performance Test for KOREA

1. Introduction

This report is a report on radiation (gamma) detection performance test for KOREA.

2. Overview

2.1. Device

Monitor Type : Vehicle monitor RTM911
Serial number : 0911
Manufacturer : MIRION Technologies. (RADOS) GmbH

2.2. Customer

SCRAP & RECYCLE Co.,Ltd.
JAPAN

2.3. Test day

01 January 2017

2.4. Test contents

Radiation (gamma) detection performance test for KOREA

2.5. Reference photon radiation (source)

Name : Radioactivity standard gamma source 401CE
Nuclide : Cs-137
Source Code : CS401CE
Source Number : 6577
Activity Value : 5.800×10^5 (Bq)
Calibration Date : 16 May 2016

2.6. Tester

AtomProTech Inc.
Minoru OHBA (Radiation handling chief supervisor's license No23664)
(President)

手書き署名

3. Results

3.1. Test method

Using source, each height of test points (see Fig.1) horizontally through test speed (about 8km/h).

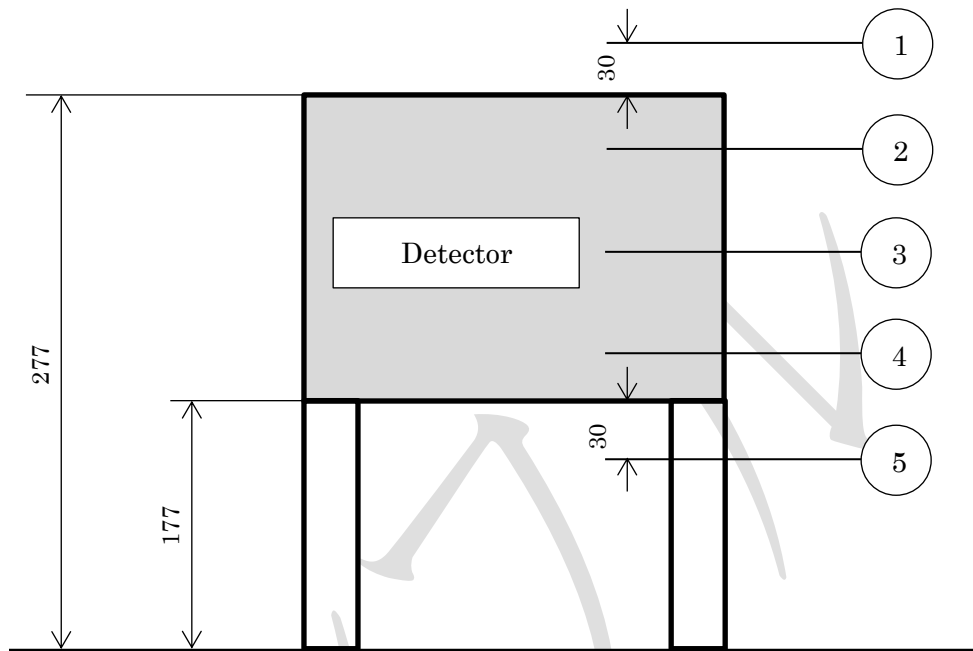


Fig.1

(cm)

3.2. Criteria

Each test point, acceptable when a minimum of 59 alarms occur in 60 occupancies.

<< Alarm threshold = Background + 5σ in Background >>

3.3. Test results

Number of Test Point	Height from floor	Number of Alarms / Test	Good or Bad	Remarks
①	307	/ 60		
②	267	/ 60		
③	227	/ 60		
④	187	/ 60		
⑤	147	/ 60		

Test data is see Annex <<Radiation Detection Performance Certificate>>

3.4. Judgment

「PASSED」など手書き

Annex A

Radiation Detection Performance Certificate

【Test Point: ①】

Customer

SCRAP & RECYCLE Co.,Ltd.

Source

¹³⁷Cs / 580kBq

Monitor Type

RTM911

Source №

6577

Serial Number

0911

Height from Floor

3.07m

[cpg] = [10cps]

№	Date	Time	Vehicle Number	Speed [km/h]	Ch.	Background	Measurement (NET)	Alarm.Level	Alarm
						[cpg]	[cpg]	5σ [cpg]	
1	2017/01/01	8:31:43 AM	東京 を 12-34	-7.64	1Ch.	96.53	90.8	145.7	Y
					2Ch.	93.99	62.7	142.5	
					3Ch.	190.77	153.2	259.8	
2	2017/01/01	8:32:02 AM	東京 を 12-34	10.00	1Ch.	96.63	67.0	145.8	Y
					2Ch.	93.41	56.6	141.7	
					3Ch.	190.77	119.2	259.8	
3	2017/01/01	8:32:31 AM	東京 を 12-34	-7.64	1Ch.	97.10	87.2	146.4	Y
					2Ch.	94.53	65.8	143.1	
					3Ch.	191.38	136.0	260.6	
4	2017/01/01	8:32:44 AM	東京 を 12-34	9.41	1Ch.	96.39	74.6	145.5	Y
					2Ch.	94.39	68.6	143.0	
					3Ch.	190.29	123.0	259.3	
5	2017/01/01	8:33:03 AM	東京 を 12-34	-7.75	1Ch.	96.42	72.9	145.5	Y
					2Ch.	94.87	66.5	143.6	
					3Ch.	190.81	134.5	259.9	
6	2017/01/01	8:33:29 AM	東京 を 12-34	9.67	1Ch.	96.01	89.3	145.0	Y
					2Ch.	94.07	53.9	142.6	
					3Ch.	189.36	135.0	258.2	
7	2017/01/01	8:34:08 AM	東京 を 12-34	-7.75	1Ch.	96.92	84.8	146.1	Y
					2Ch.	95.29	56.0	144.1	
					3Ch.	191.77	138.6	261.0	
8	2017/01/01	8:34:28 AM	東京 を 12-34	9.37	1Ch.	96.69	78.6	145.9	Y
					2Ch.	95.38	55.6	144.2	
					3Ch.	191.95	131.7	261.2	
9	2017/01/01	8:34:41 AM	東京 を 12-34	-7.55	1Ch.	96.55	74.1	145.7	Y
					2Ch.	95.39	67.3	144.2	
					3Ch.	191.97	135.7	261.2	
10	2017/01/01	8:34:59 AM	東京 を 12-34	10.05	1Ch.	96.41	81.3	145.5	Y
					2Ch.	94.81	62.5	143.5	
					3Ch.	191.83	141.2	261.1	
11	2017/01/01	8:35:14 AM	東京 を 12-34	-7.50	1Ch.	96.50	58.8	145.6	Y
					2Ch.	95.22	64.8	144.0	
					3Ch.	191.83	120.8	261.1	
12	2017/01/01	8:35:24 AM	東京 を 12-34	9.86	1Ch.	96.77	78.2	146.0	Y
					2Ch.	94.72	73.3	143.4	
					3Ch.	190.86	141.8	259.9	
13	2017/01/01	8:35:41 AM	東京 を 12-34	-7.70	1Ch.	97.53	78.1	146.9	Y
					2Ch.	95.39	61.9	144.2	
					3Ch.	192.25	127.7	261.6	
14	2017/01/01	8:35:52 AM	東京 を 12-34	8.85	1Ch.	96.50	75.5	145.6	Y
					2Ch.	95.05	59.6	143.8	
					3Ch.	191.62	135.0	260.8	
15	2017/01/01	8:36:10 AM	東京 を 12-34	-7.67	1Ch.	95.90	69.8	144.9	Y
					2Ch.	96.10	73.6	145.1	
					3Ch.	192.49	136.5	261.9	
16	2017/01/01	8:36:21 AM	東京 を 12-34	10.20	1Ch.	95.33	87.3	144.1	Y
					2Ch.	95.91	71.4	144.9	
					3Ch.	191.95	152.0	261.2	
17	2017/01/01	8:36:36 AM	東京 を 12-34	-7.99	1Ch.	95.66	70.3	144.6	Y
					2Ch.	96.19	55.1	145.2	
					3Ch.	191.80	122.2	261.0	
18	2017/01/01	8:36:47 AM	東京 を 12-34	10.45	1Ch.	95.71	76.0	144.6	Y
					2Ch.	95.63	70.4	144.5	
					3Ch.	191.18	143.2	260.3	
19	2017/01/01	8:37:02 AM	東京 を 12-34	-8.09	1Ch.	96.63	76.4	145.8	Y
					2Ch.	95.27	52.4	144.1	
					3Ch.	191.62	120.7	260.8	
20	2017/01/01	8:37:12 AM	東京 を 12-34	10.20	1Ch.	96.31	68.7	145.4	Y
					2Ch.	95.05	63.3	143.8	
					3Ch.	191.40	126.9	260.6	