

RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

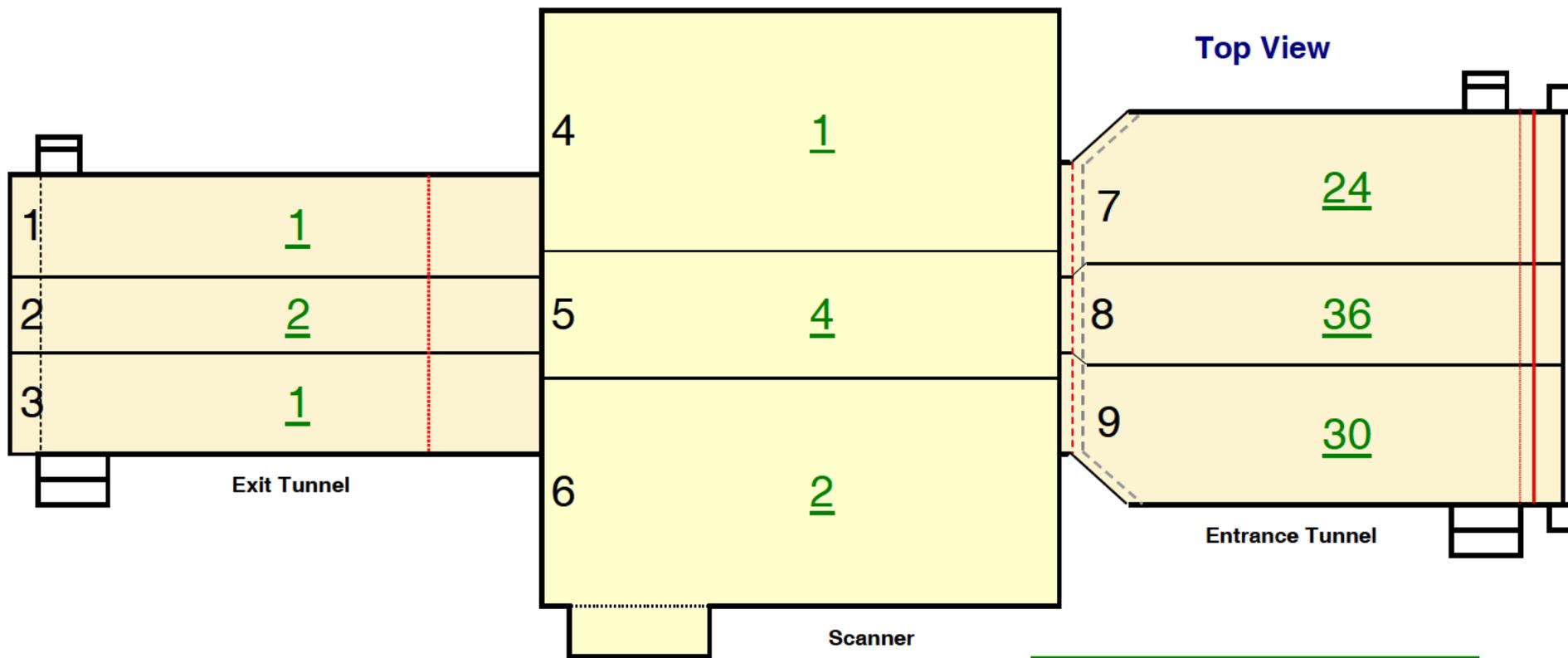
Airport: SJU	Scanner Location: Terminal B	Case#: 355940
Personnel Performing Radiation Survey: XXXXXXXXXX		Date Survey Performed: 3/2/2011
Scanner Serial Number: 6164	Entrance Tunnel Serial Number: 2113 A	Exit Tunnel Serial Number: 5532 B
High Reading: 39	Average Reading: 5.20	Min. Reading: 1
High Reading: 188	Average Reading: 36.74	Min. Reading: 1
High Reading: 16	Average Reading: 4.63	Min. Reading: 1
Good	Good	Good
Radiation Meter: Type Meter: 451P	Meter Serial Number: 96	Calibration Due Date: October 27, 2011

NOTES

Complete Radiation Survey (CRS)	Record Voltage and Bean Current here:							
Rename this Document before starting the Survey to:	Voltage: 164160 KV Beam Current: 10.0 mA							
355-CRS-2MAR2011-6164	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Maximum Safe Readings</td> <td style="width: 15%;">Scanner</td> <td style="width: 10%;">350</td> <td style="width: 15%;">Tunnels</td> <td style="width: 10%;">350</td> <td style="width: 10%;">Curtains</td> <td style="width: 15%;">350</td> </tr> </table>	Maximum Safe Readings	Scanner	350	Tunnels	350	Curtains	350
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Step:	Procedure	Expected results
	Set Up: Obtain Inovision Ion Chamber Survey Meter and in an area away from the scanners, turn on the meter by pressing the On-Off key. Wait approx. 4 minutes for the meter to run through the initialization procedure.	The GUI will be visible and will indicate Standby. After the radiation meter initialization procedure is complete the meter will be reading less than 20 μ R/hr and the meter will be ready for use.
2.	The scanner will be in Standby. Change the conveyor switch on the scanner to Stop. Change the exit tunnel conveyor switch to Off to stop the conveyor.	Both conveyors should be stopped.
3.	On the GUI dropdown screen, select diagnostic, followed by Radiation Survey. A radiation survey window will appear. Click "Turn On" button to turn x-rays on. Turn on x-rays prompt will say "Place survey bag on belt". Place IQTK bag on Entry Conveyor Belt.	A window indicating "Radiation Survey" will appear.
4.	When "Bag in survey position" appears, go to the FCC monitor and select "2" then <Enter>, verify and record the voltage and current in the displayed on the FCC screen in the planks provided above.	The high voltage is between 144KV and 176KV . The current is between 8.8mA and 10.6mA and the scanner X-ray indicator lights are on.
5.	Survey one of the areas indicated by the boxes in Appendix A2. Record the highest reading within the area. Repeat the process until all areas are surveyed and readings are recorded.	As the survey is conducted, the radiation meter indicates the degree of radiation emission.
6.	Review all radiation data sheets for high readings.	Readings shall not exceed 350 uR/hr in any box.
7.	After radiation survey is complete, click on "Start Conveyor" button on the GUI. Click the "Turn Off" button to turn off x-rays. Next click "Done". The IQTK bag will eject from exit tunnel. EDAC will reboot.	IQTK bag is ejected and scanner reboots.
7.	Visually inspect the entrance and exit of the system for X-ray caution hazard signs.	X-ray hazard signs reading "Do not insert any part of the body when system is energized" are posted at entrance and exit of system.
9.	Fill out the eXaminer radiation sticker and adhere to to the frame of the eXaminer 3/17/2011 or #5 on the left side of the scanner.	Readings shall not exceed 350 uR/hr in any box.

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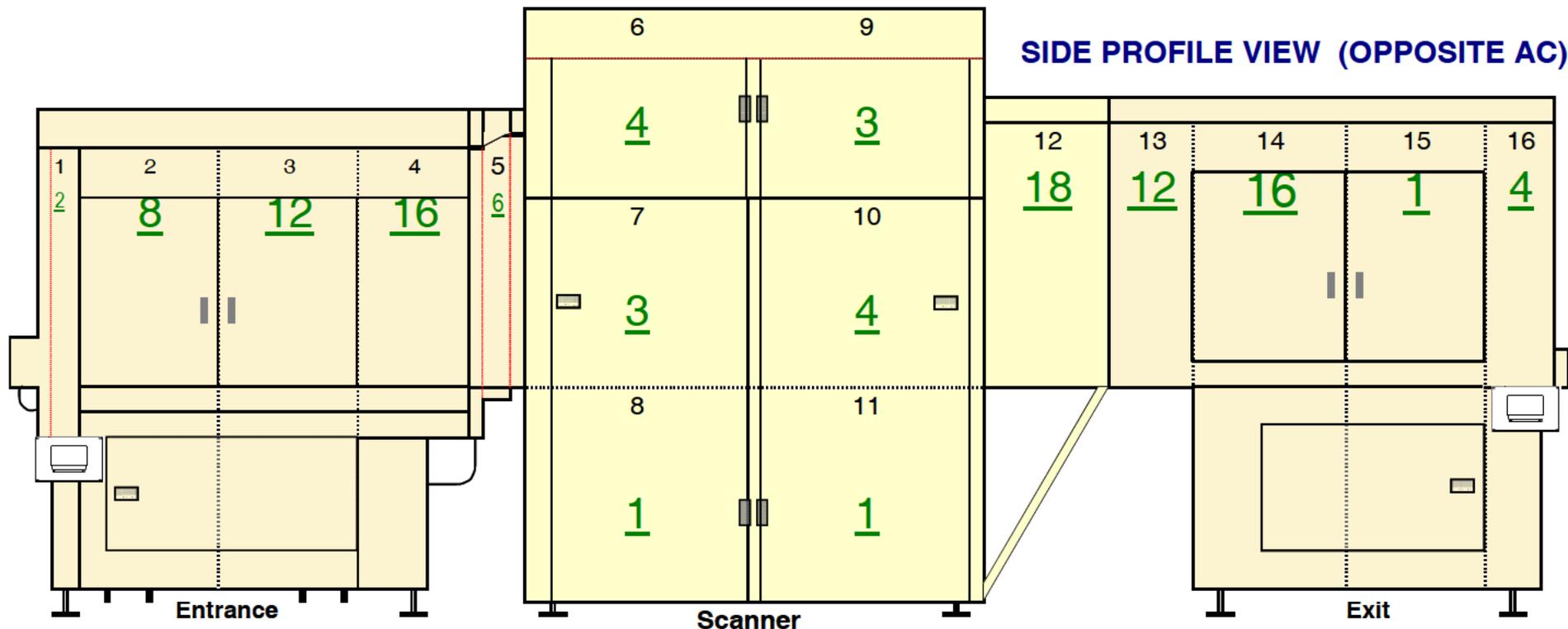


GOOD

Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Exit Conveyor Top Panel	1	
2	Exit Conveyor Top Panel	2	
3	Exit Conveyor Top Panel	1	
4	Scanner Conveyor Top Panel	1	
5	Scanner Conveyor Top Panel	4	
6	Scanner Conveyor Top Panel	2	
7	Entrance Conveyor Top Panel	24	
8	Entrance Conveyor Top Panel	36	
9	Entrance Conveyor Top Panel	30	

Highest Reading	36
Average Reading	11
Lowest Reading	1

RADIATION SURVEY WORKSHEET

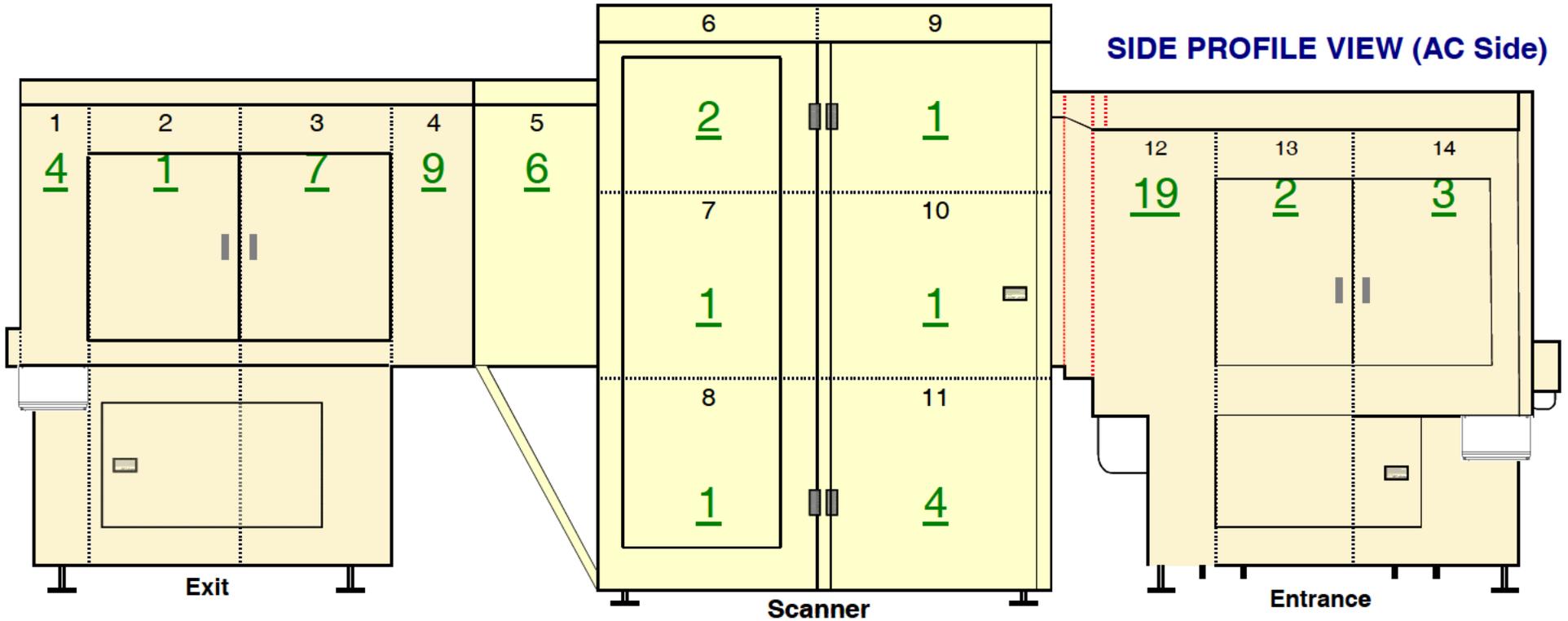


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Entrance Conveyor Panel	2	
2	Entrance Conveyor Panel	8	
3	Entrance Conveyor Panel	12	
4	Entrance Conveyor Panel	16	
5	Entrance Conveyor / Scanner Panel	6	
6	Upper Scanner Panel	4	
7	Middle Scanner Panel	3	
8	Lower Scanner Panel	1	
9	Upper Scanner Panel	3	
10	Middle Scanner Panel	4	
11	Lower Scanner Panel	1	
12	Exit Conveyor / Scanner Panel	18	
13	Exit Conveyor Panel	12	
14	Exit Conveyor Panel	16	
15	Exit Conveyor Panel	1	
16	Exit Conveyor Panel	4	

GOOD

Highest Reading	18
Average Reading	7
Low Reading	1

RADIATION SURVEY WORKSHEET



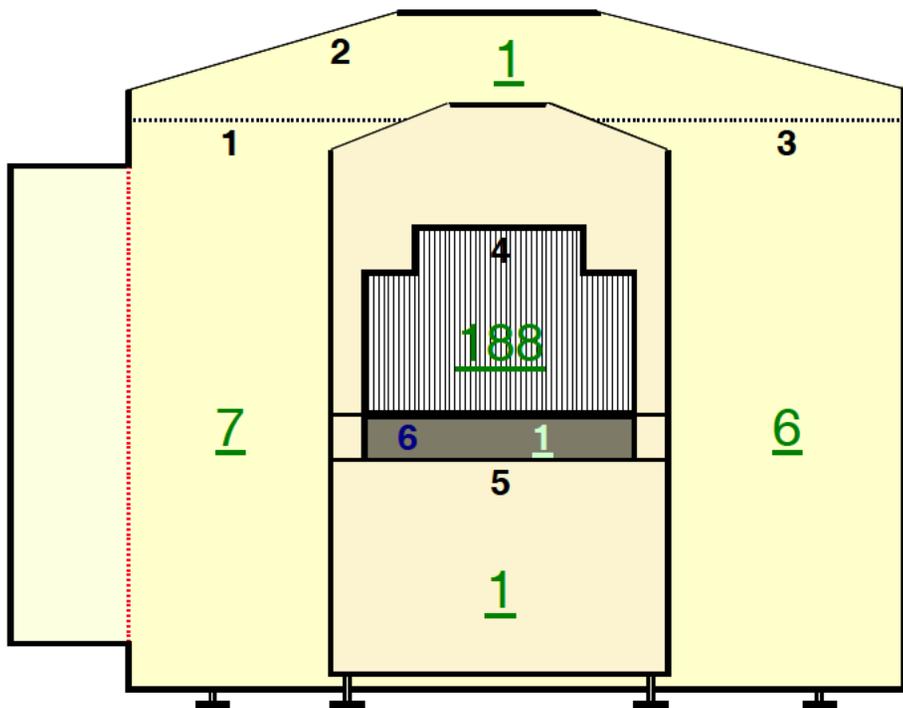
SYSTEM - SIDE PROFILE VIEW (AC Side)			
Scattered Radiation Measurement Points Worksheet			
Record highest reading per panel			No PROBLEM
		$\mu\text{R}/\text{Hr}$	
1	Exit Conveyor Panel	4	
2	Exit Conveyor Panel	1	
3	Exit Conveyor Panel	7	
4	Exit Conveyor Panel	9	
5	Exit Conveyor / Scanner Panel	6	
6	Upper Scanner Pane	2	
7	Middle Scanner Panel	1	
8	Lower Scanner Panel	1	
9	Upper Scanner Panel	1	
10	Middle Scanner Panel	1	
11	Lower Scanner Panel	4	
12	Entrance Conveyor / Scanner Panel	19	
13	Entrance Conveyor Panel	2	
14	Entrance Conveyor Panel	3	

GOOD

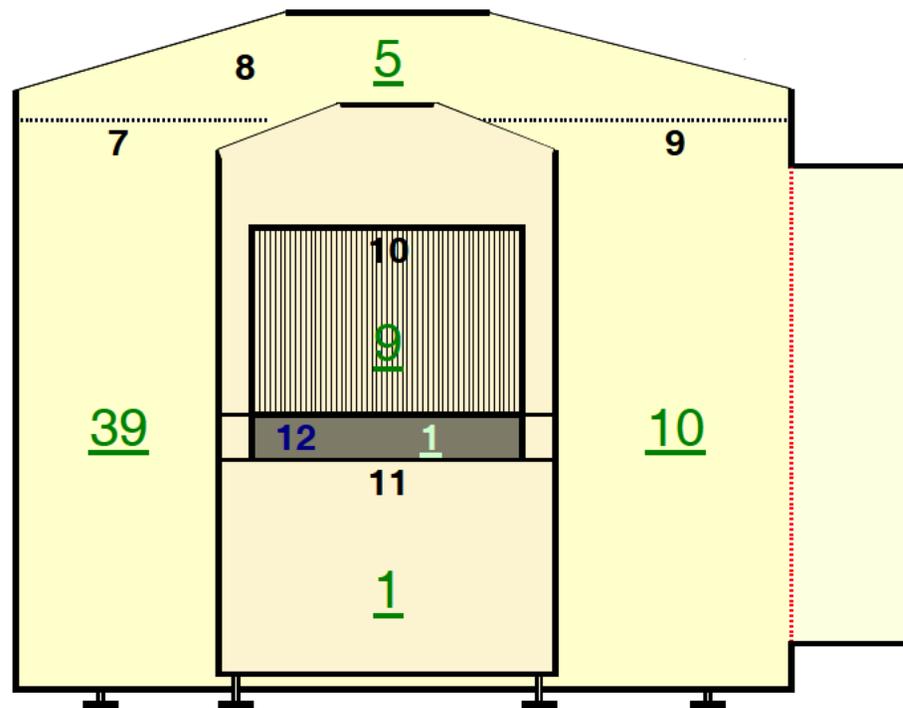
Highest Reading	19
Average Reading	4
Low Reading	1

RADIATION SURVEY WORKSHEET

SYSTEM - FACES (End Views)



eXaminer entrance



eXaminer exit

SYSTEM - FACES (End Views)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel		$\mu\text{R}/\text{Hr}$
1	Scanner Panel	7
2	Scanner Top Panel	1
3	Scanner Panel	6
4	Belt Entrance	188
5	Entrance Lower Panel	1
6	Belt Lower Facia Cover Entrance	1
7	Scanner Panel	39
8	Scanner Top Panel	5
9	Scanner Panel	10
10	Belt Exit	9
11	Exit Lower Panel	1
12	Belt Lower Facia Cover Exit	1

GOOD

Highest Reading	188
Average Reading	22
Low Reading	1