RADIATION SURVEY WORKSHEET
eXaminer Radiation Survey Information

Airport:	SJU	Scanner Location:	FIS	Case#:	356809
Personnel Performing Radiation Survey:	[redacted]			Date Survey Performed:	3/7/2011

Scanner Serial Number:	6206	Entrance Tunnel Serial Number:	2174A	Exit Tunnel Serial Number:	2175B
High Reading:	19	High Reading:	52	High Reading:	210
Average Reading:	6.07	Average Reading:	23.62	Average Reading:	37.67
Min. Reading:	1	Min. Reading:	7	Min. Reading:	3
	Good		Good		Good

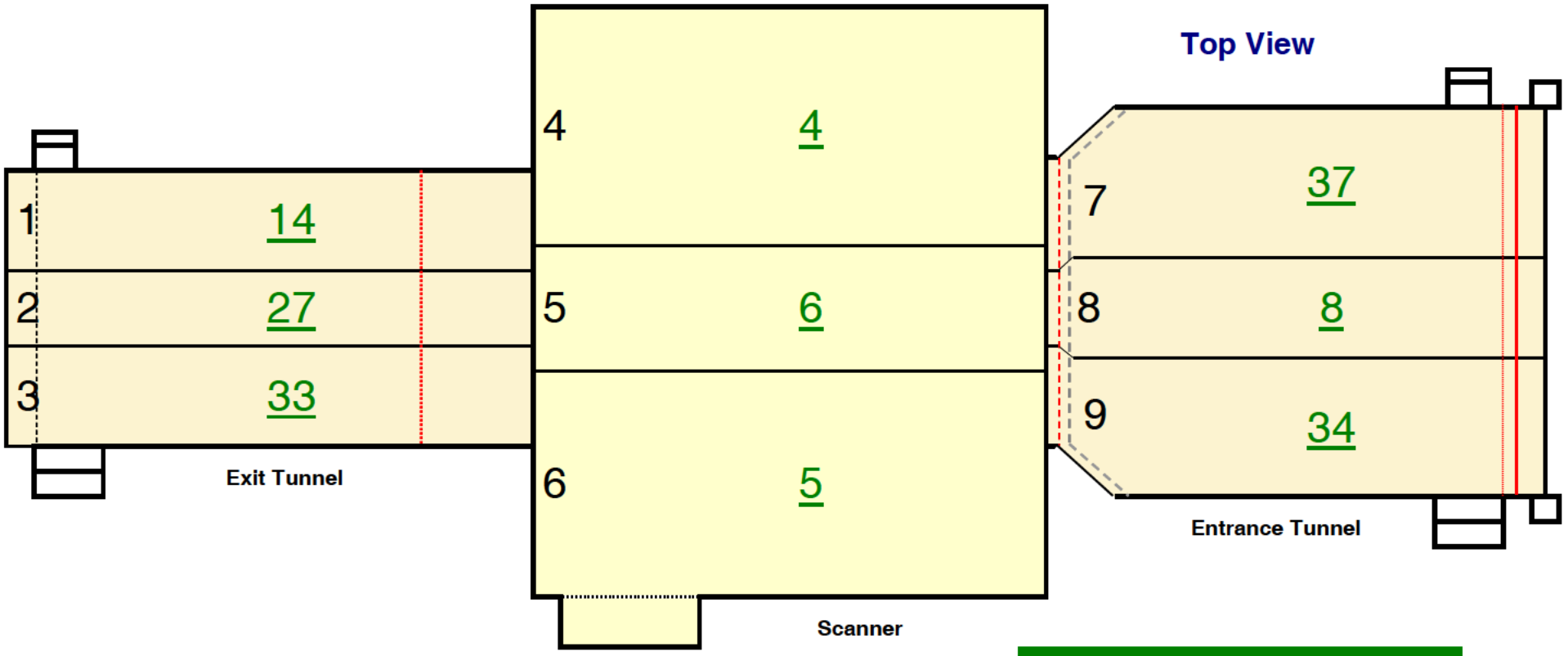
Radiation Meter:	Type Meter:	451P	Meter Serial Number:	96	Calibration Due Date:	October 27, 2011

NOTES

Complete Radiation Survey (CRS)	Record Voltage and Bean Current here:							
Rename this Document before starting the Survey to: 356-CRS-7MAR2011-6206	Voltage:	165	KV	Beam Current:	10.0	mA		
	Maximum Safe Readings	Scanner	350	Tunnels	350	Curtains	350	

Step:	Procedure	Expected results
1.	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 µR/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 under door #5 on the left side of the scanner.	Readings shall not exceed 350 uR/hr in any box.

RADIATION SURVEY WORKSHEET



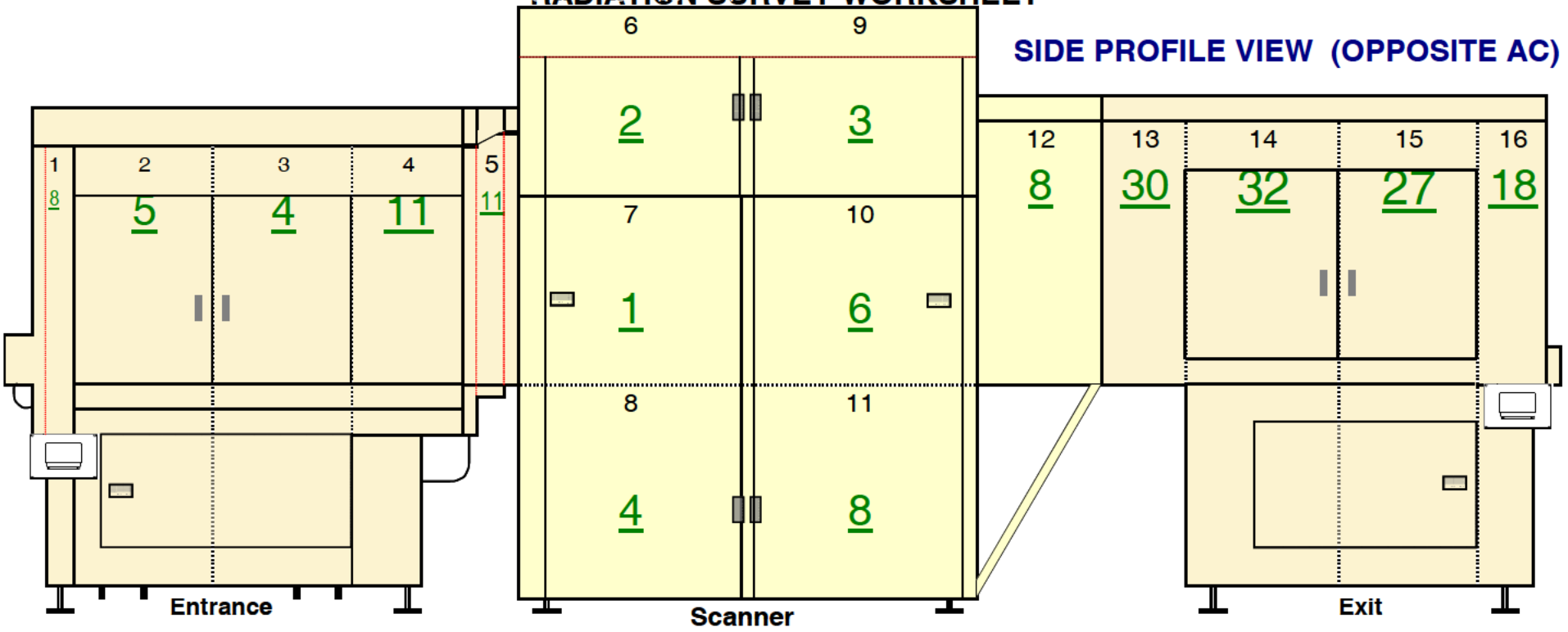
GOOD

Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Exit Conveyor Top Panel	14	
2	Exit Conveyor Top Panel	27	
3	Exit Conveyor Top Panel	33	
4	Scanner Conveyor Top Panel	4	
5	Scanner Conveyor Top Panel	6	
6	Scanner Conveyor Top Panel	5	
7	Entrance Conveyor Top Panel	37	
8	Entrance Conveyor Top Panel	8	
9	Entrance Conveyor Top Panel	34	

Highest Reading	37
Average Reading	19
Lowest Reading	4

RADIATION SURVEY WORKSHEET

SIDE PROFILE VIEW (OPPOSITE AC)



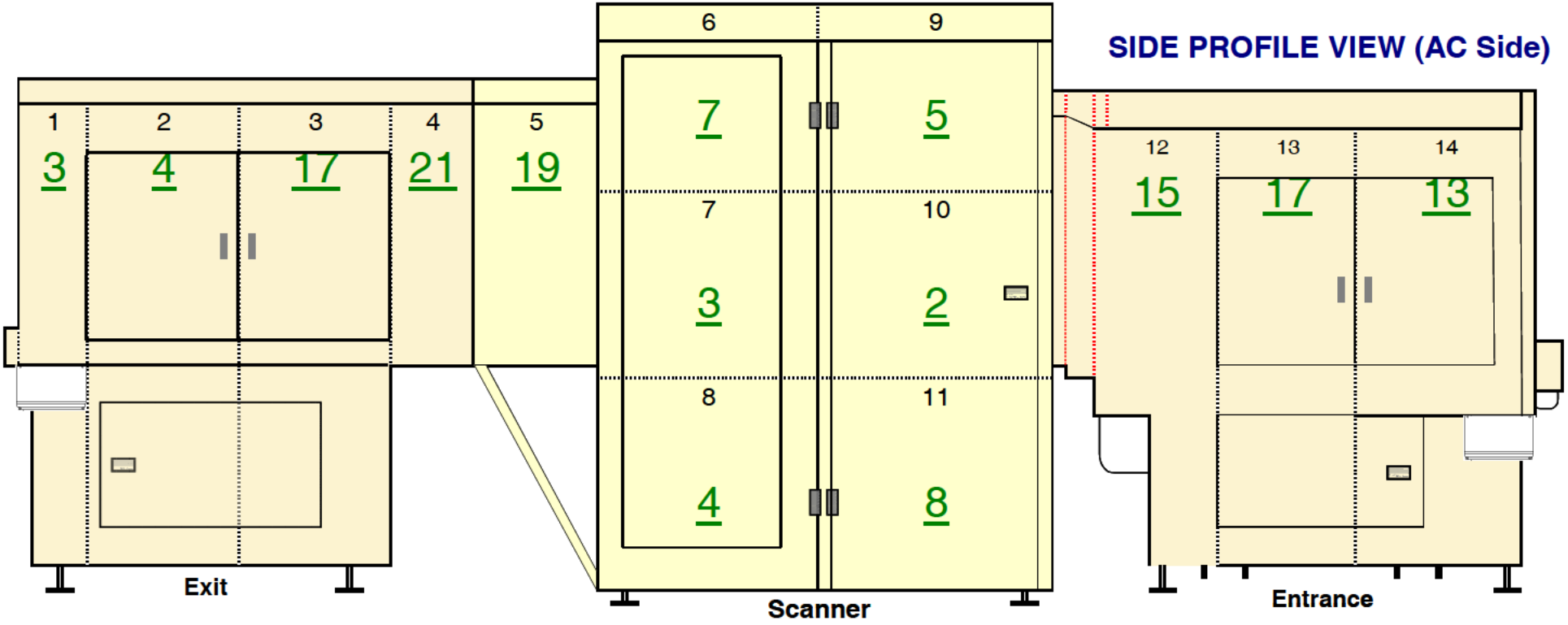
SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Entrance Conveyor Panel	8	
2	Entrance Conveyor Panel	5	
3	Entrance Conveyor Panel	4	
4	Entrance Conveyor Panel	11	
5	Entrance Conveyor / Scanner Panel	11	
6	Upper Scanner Panel	2	
7	Middle Scanner Panel	1	
8	Lower Scanner Panel	4	
9	Upper Scanner Panel	3	
10	Middle Scanner Panel	6	
11	Lower Scanner Panel	8	
12	Exit Conveyor / Scanner Panel	8	
13	Exit Conveyor Panel	30	
14	Exit Conveyor Panel	32	
15	Exit Conveyor Panel	27	
16	Exit Conveyor Panel	18	

GOOD

Highest Reading	32
Average Reading	11
Low Reading	1

RADIATION SURVEY WORKSHEET

SIDE PROFILE VIEW (AC Side)



SYSTEM - SIDE PROFILE VIEW (AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Exit Conveyor Panel	3	
2	Exit Conveyor Panel	4	
3	Exit Conveyor Panel	17	
4	Exit Conveyor Panel	21	
5	Exit Conveyor / Scanner Panel	19	
6	Upper Scanner Pane	7	
7	Middle Scanner Panel	3	
8	Lower Scanner Panel	4	
9	Upper Scanner Panel	5	
10	Middle Scanner Panel	2	
11	Lower Scanner Panel	8	
12	Entrance Conveyor / Scanner Panel	15	
13	Entrance Conveyor Panel	17	
14	Entrance Conveyor Panel	13	

GOOD

Highest Reading	21
Average Reading	10
Low Reading	2

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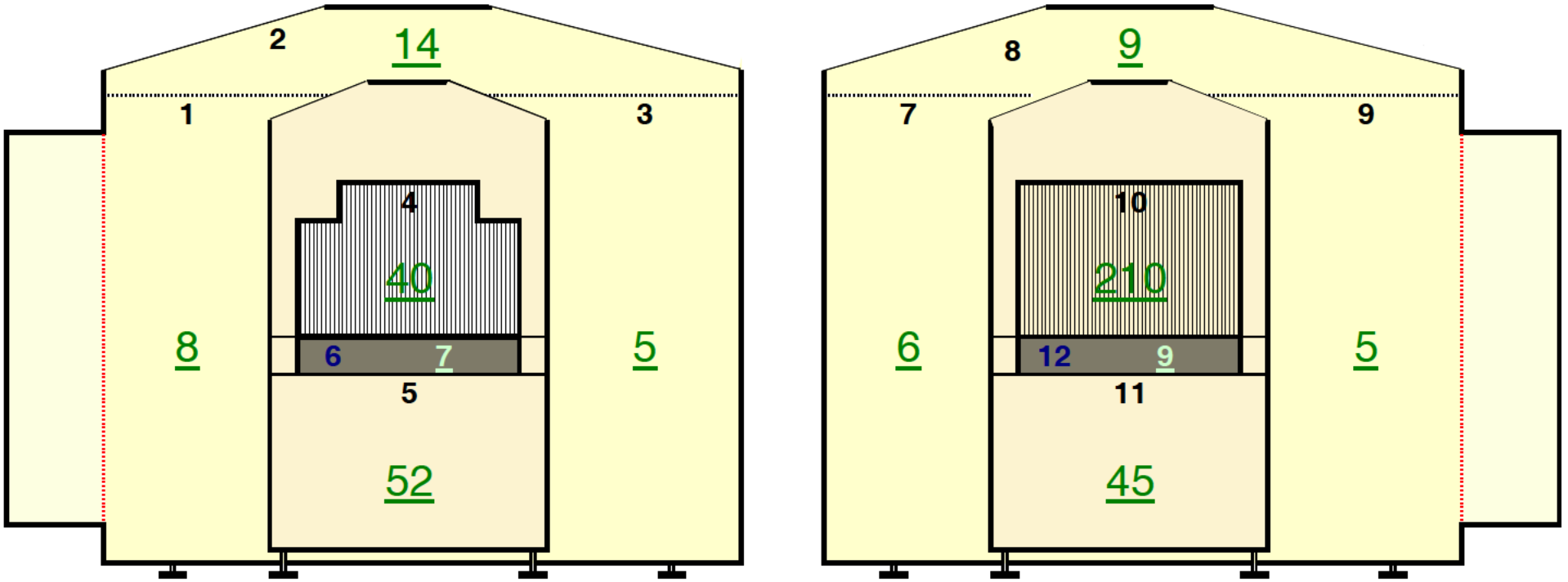
SYSTEM - FACES (End Views)



eXaminer entrance

eXaminer exit

SYSTEM - FACES (End Views)			
Scattered Radiation Measurement Points Worksheet Record highest reading per panel		µR/Hr	No PROBLEM
1	Scanner Panel	8	
2	Scanner Top Panel	14	
3	Scanner Panel	5	
4	Belt Entrance	40	
5	Entrance Lower Panel	52	
6	Belt Lower Facia Cover Entrance	7	
7	Scanner Panel	6	
8	Scanner Top Panel	9	
9	Scanner Panel	5	
10	Belt Exit	210	
11	Exit Lower Panel	45	
12	Belt Lower Facia Cover Exit	9	

GOOD

Highest Reading	210
Average Reading	34
Low Reading	5