RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

Airport:	***Orlando International Airport***	Scanner Location:	***Baggage Handling Room***	Case#:	**MCO-C355710**
Personnel Performing Radiation Survey:	[redacted]			Date Survey Performed:	***3/13/2011***

Scanner Serial Number:	***6564***	Entrance Tunnel Serial Number:	***5451a***	Exit Tunnel Serial Number:	***5443b***
High Reading:	**17**	High Reading:	**31**	High Reading:	**23**
Average Reading:	**7.78**	Average Reading:	**13.58**	Average Reading:	**8.81**
Min. Reading:	**4**	Min. Reading:	**6**	Min. Reading:	**1**
	Good		**Good**		**Good**

Radiation Meter:	Type Meter:	**451P**	Meter Serial Number:	**110**	Calibration Due Date:	***October 13, 2011***

NOTES

Complete Radiation Survey (CRS)

Rename this Document before starting the Survey to:

MCO-CRS-13MAR2011-6564

Record Voltage and Bean Current here:

Voltage:	165	KV	Beam Current:	9.8	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.

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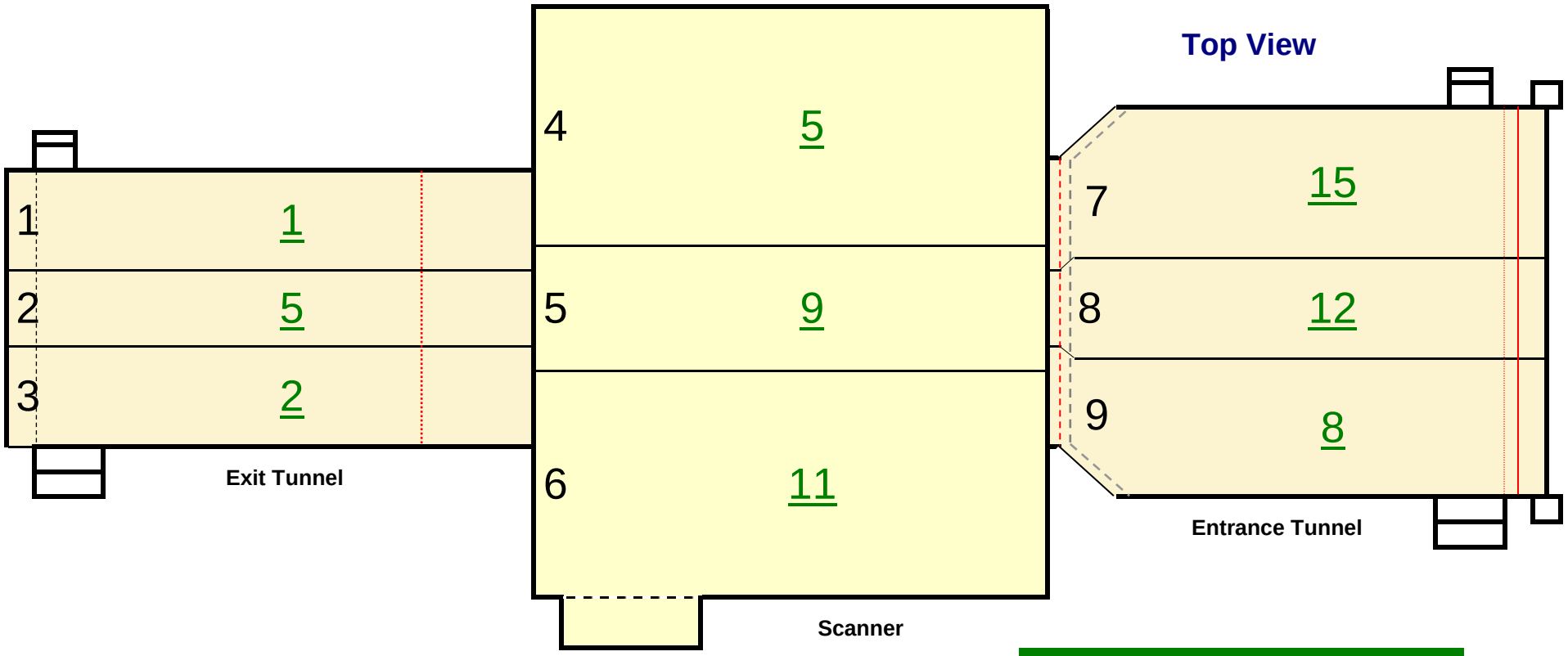


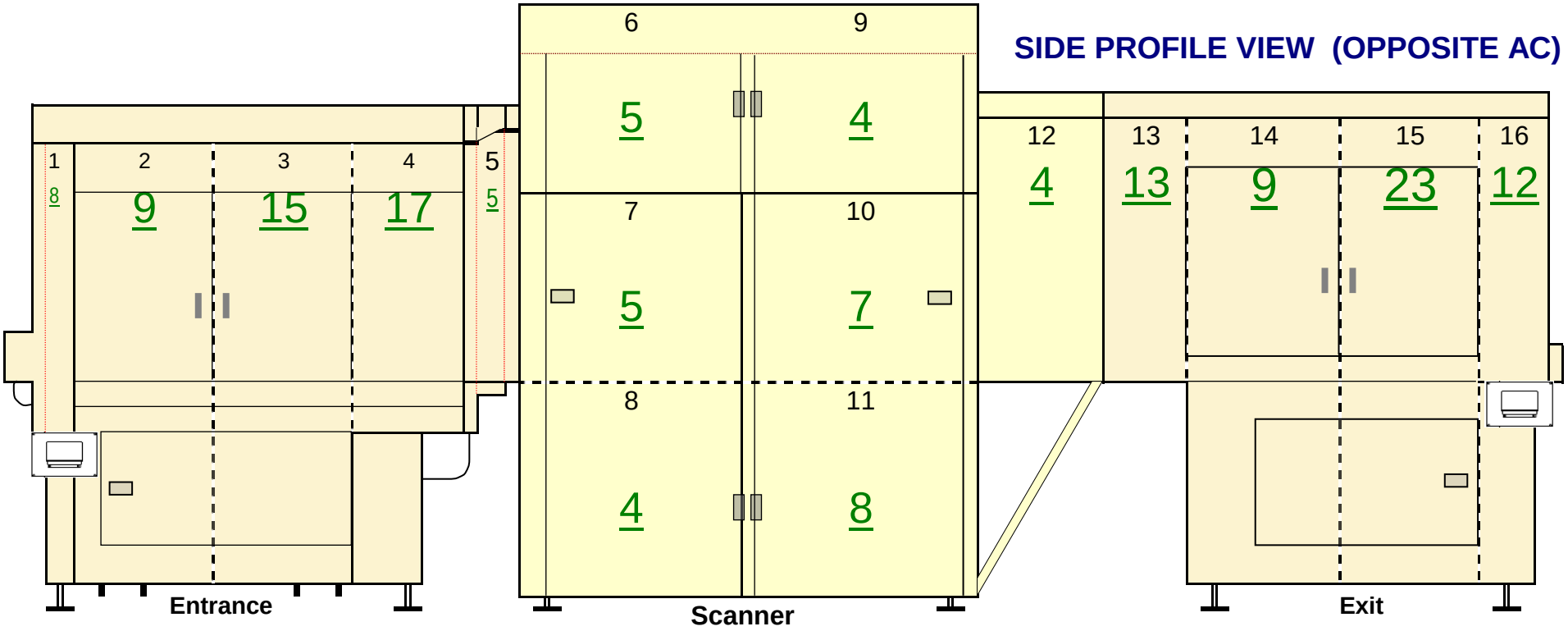
GOOD

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	5	
3	Exit Conveyor Top Panel	2	
4	Scanner Conveyor Top Panel	5	
5	Scanner Conveyor Top Panel	9	
6	Scanner Conveyor Top Panel	11	
7	Entrance Conveyor Top Panel	15	
8	Entrance Conveyor Top Panel	12	
9	Entrance Conveyor Top Panel	8	

Highest Reading	15
Average Reading	8
Lowest Reading	1

RADIATION SURVEY WORKSHEET

SIDE PROFILE VIEW (OPPOSITE AC)



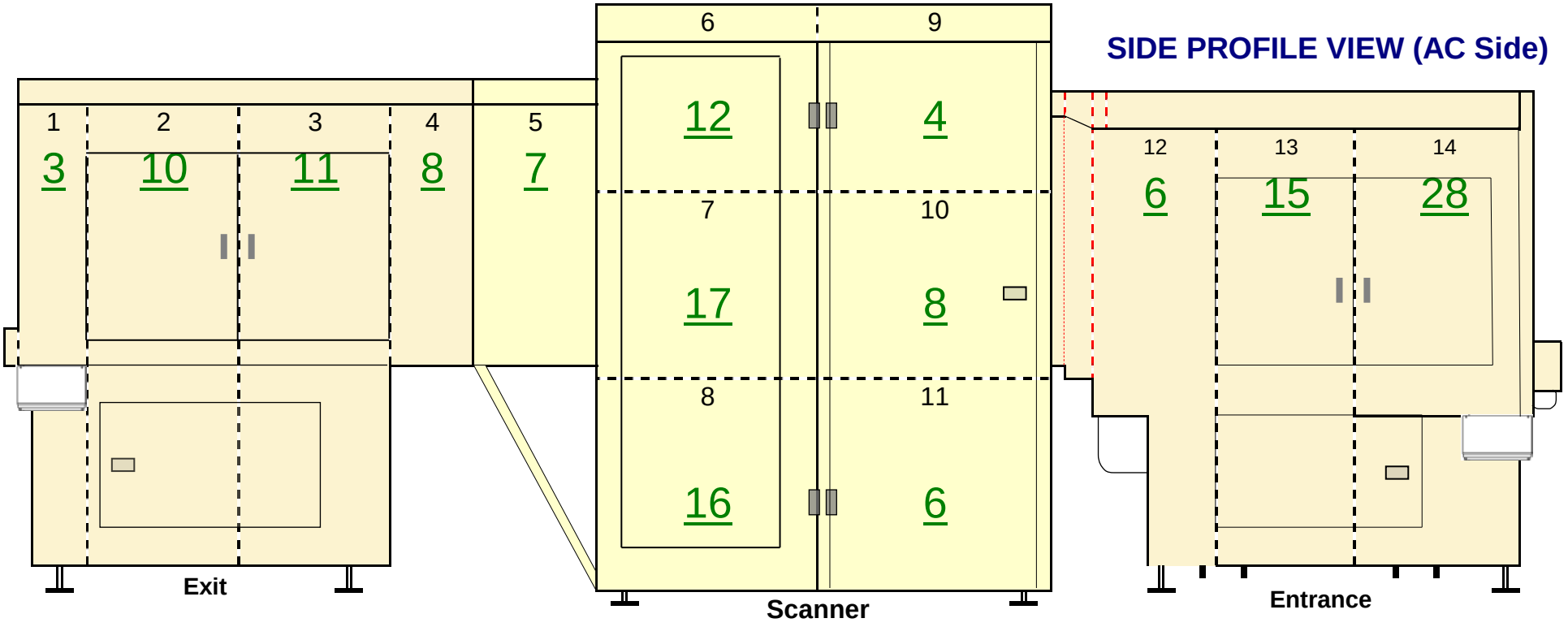
SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Entrance Conveyor Panel	8	
2	Entrance Conveyor Panel	9	
3	Entrance Conveyor Panel	15	
4	Entrance Conveyor Panel	17	
5	Entrance Conveyor / Scanner Panel	5	
6	Upper Scanner Panel	5	
7	Middle Scanner Panel	5	
8	Lower Scanner Panel	4	
9	Upper Scanner Panel	4	
10	Middle Scanner Panel	7	
11	Lower Scanner Panel	8	
12	Exit Conveyor / Scanner Panel	4	
13	Exit Conveyor Panel	13	
14	Exit Conveyor Panel	9	
15	Exit Conveyor Panel	23	
16	Exit Conveyor Panel	12	

GOOD

Highest Reading	23
Average Reading	9
Low Reading	4

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	10	
3	Exit Conveyor Panel	11	
4	Exit Conveyor Panel	8	
5	Exit Conveyor / Scanner Panel	7	
6	Upper Scanner Pane	12	
7	Middle Scanner Panel	17	
8	Lower Scanner Panel	16	
9	Upper Scanner Panel	4	
10	Middle Scanner Panel	8	
11	Lower Scanner Panel	6	
12	Entrance Conveyor / Scanner Panel	6	
13	Entrance Conveyor Panel	15	
14	Entrance Conveyor Panel	28	

GOOD

Highest Reading	28
Average Reading	11
Low Reading	3

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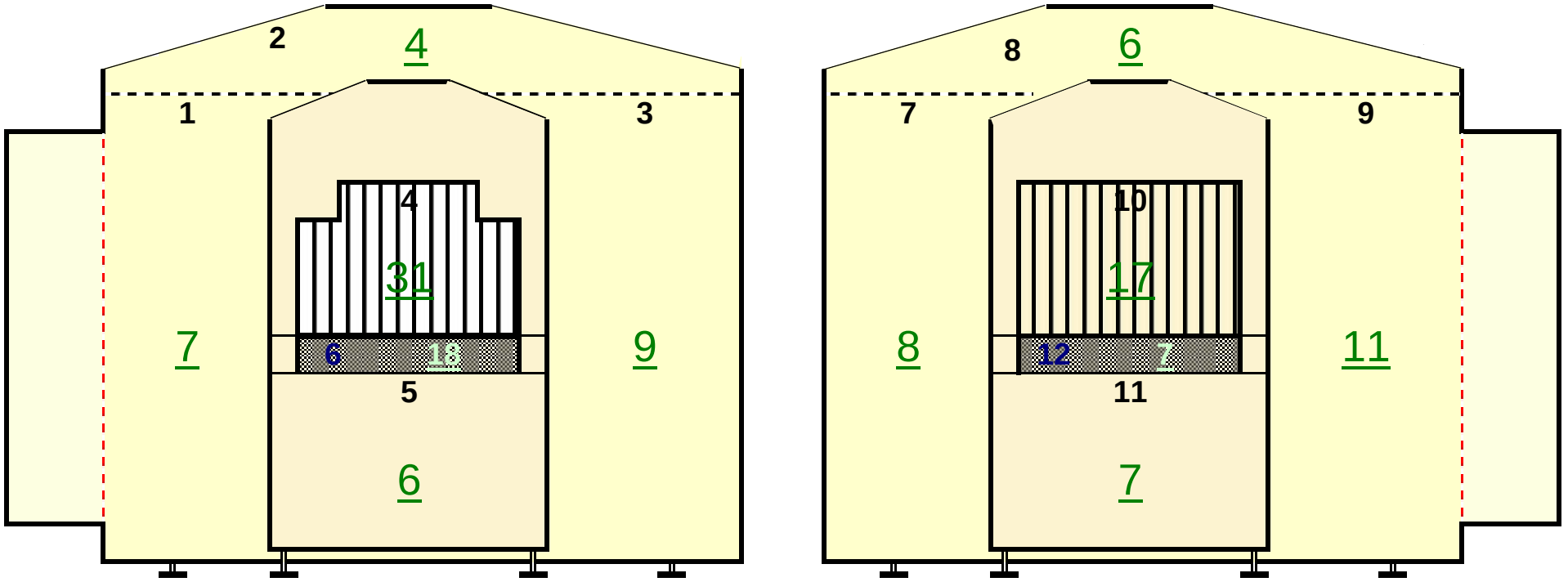
SYSTEM - FACES (End Views)



eXaminer entrance

eXaminer exit

SYSTEM - FACES (End Views)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Scanner Panel	7	
2	Scanner Top Panel	4	
3	Scanner Panel	9	
4	Belt Entrance	31	
5	Entrance Lower Panel	6	
6	Belt Lower Facia Cover Entrance	18	
7	Scanner Panel	8	
8	Scanner Top Panel	6	
9	Scanner Panel	11	
10	Belt Exit	17	
11	Exit Lower Panel	7	
12	Belt Lower Facia Cover Exit	7	

GOOD

Highest Reading	31
Average Reading	11
Low Reading	4