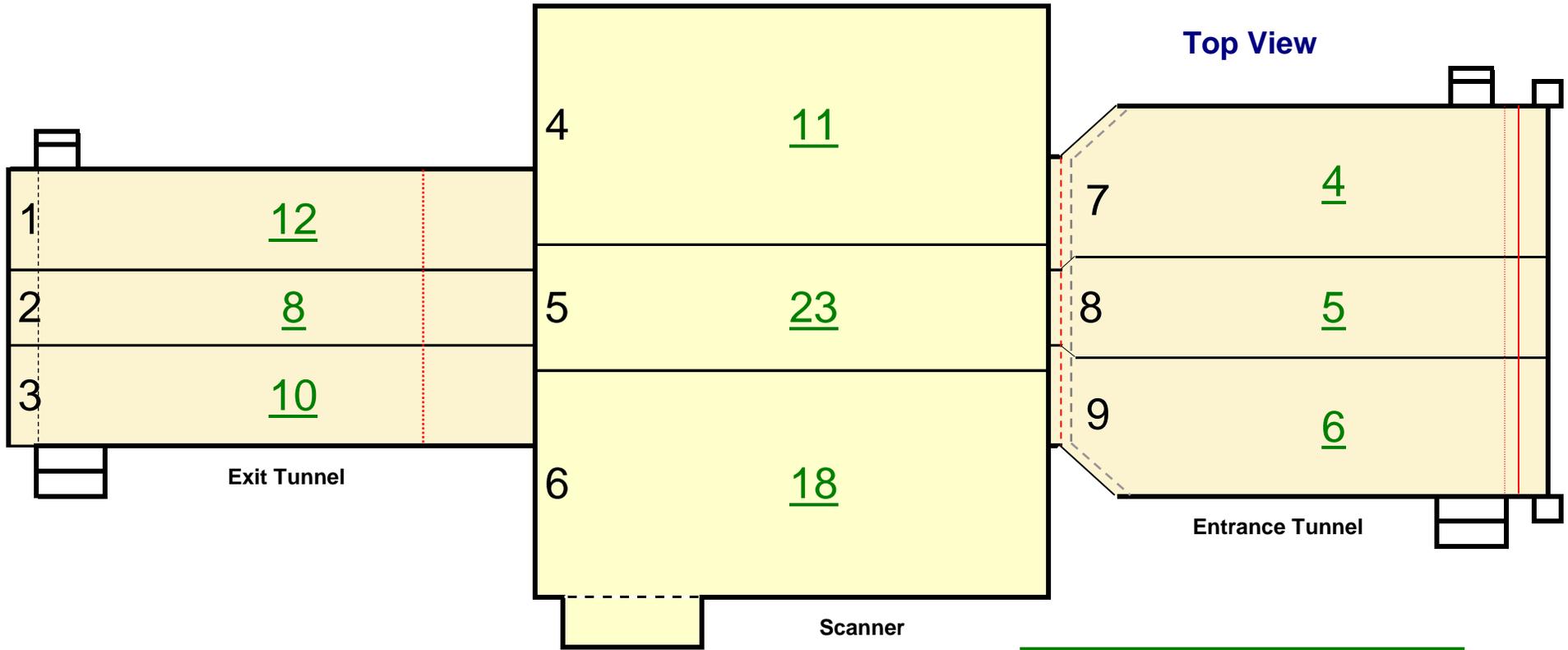


# RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

Airport: <b>T.F Green Airport</b>	Scanner Location: <b>Baggage Handling Room</b>	Case#: <b>PVD-C360183</b>
Personnel Performing Radiation Survey: <span style="background-color: black; color: black;">XXXXXXXXXX</span>		Date Survey Performed: <b>3/24/2011</b>
Scanner Serial Number: <b>6760</b>	Entrance Tunnel Serial Number: <b>1107</b>	Exit Tunnel Serial Number: <b>1086-1B</b>
High Reading: <b>24</b>	Average Reading: <b>11.95</b>	Min. Reading: <b>5</b>
High Reading: <b>97</b>	Average Reading: <b>17.04</b>	Min. Reading: <b>4</b>
High Reading: <b>45</b>	Average Reading: <b>15.21</b>	Min. Reading: <b>3</b>
<b>Good</b>	<b>Good</b>	<b>Good</b>
Radiation Meter: Type Meter: <b>451P</b>	Meter Serial Number: <b>6230</b>	Calibration Due Date: <b>February 1, 2012</b>
<div style="display: flex; justify-content: space-between;"> <span>N</span> <span>O</span> <span>T</span> <span>E</span> <span>S</span> </div>		
<b>Complete Radiation Survey (CRS)</b>	<b>Record Voltage and Beam Current here:</b>	
<b>Rename this Document before starting the Survey to:</b>	<b>Voltage:</b> <b>165</b> KV	<b>Beam Current:</b> <b>10.0</b> mA
<b>PVD-CRS-24MAR2011-6760</b>	<b>Maximum Safe Readings</b>	<b>Scanner</b> 350 <b>Tunnels</b> 350 <b>Curtains</b> 350
<b>Step:</b>	<b>Procedure</b>	<b>Expected results</b>
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 <b>144KV</b> and <b>176KV</b> . The current is between <b>8.8mA</b> and <b>10.6mA</b> 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.	<a href="#">Fill out the eXaminer radiation stickers and place on the eXaminer in accordance with Examiner Technical Bulletin ex253.</a>	Readings shall not exceed 350 uR/hr in any box.

# RADIATION SURVEY WORKSHEET



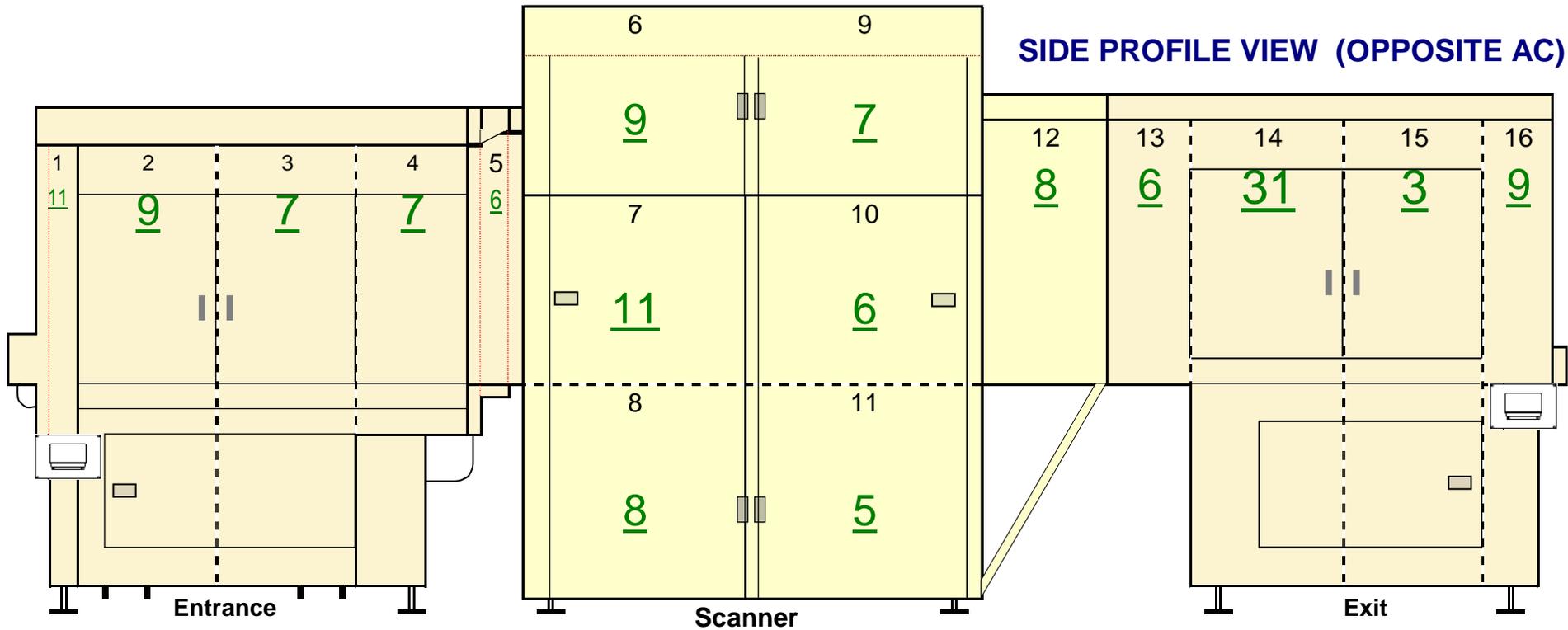
GOOD

Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Exit Conveyor Top Panel	12	
2	Exit Conveyor Top Panel	8	
3	Exit Conveyor Top Panel	10	
4	Scanner Conveyor Top Panel	11	
5	Scanner Conveyor Top Panel	23	
6	Scanner Conveyor Top Panel	18	
7	Entrance Conveyor Top Panel	4	
8	Entrance Conveyor Top Panel	5	
9	Entrance Conveyor Top Panel	6	

Highest Reading	23
Average Reading	11
Lowest Reading	4

# RADIATION SURVEY WORKSHEET

## SIDE PROFILE VIEW (OPPOSITE AC)

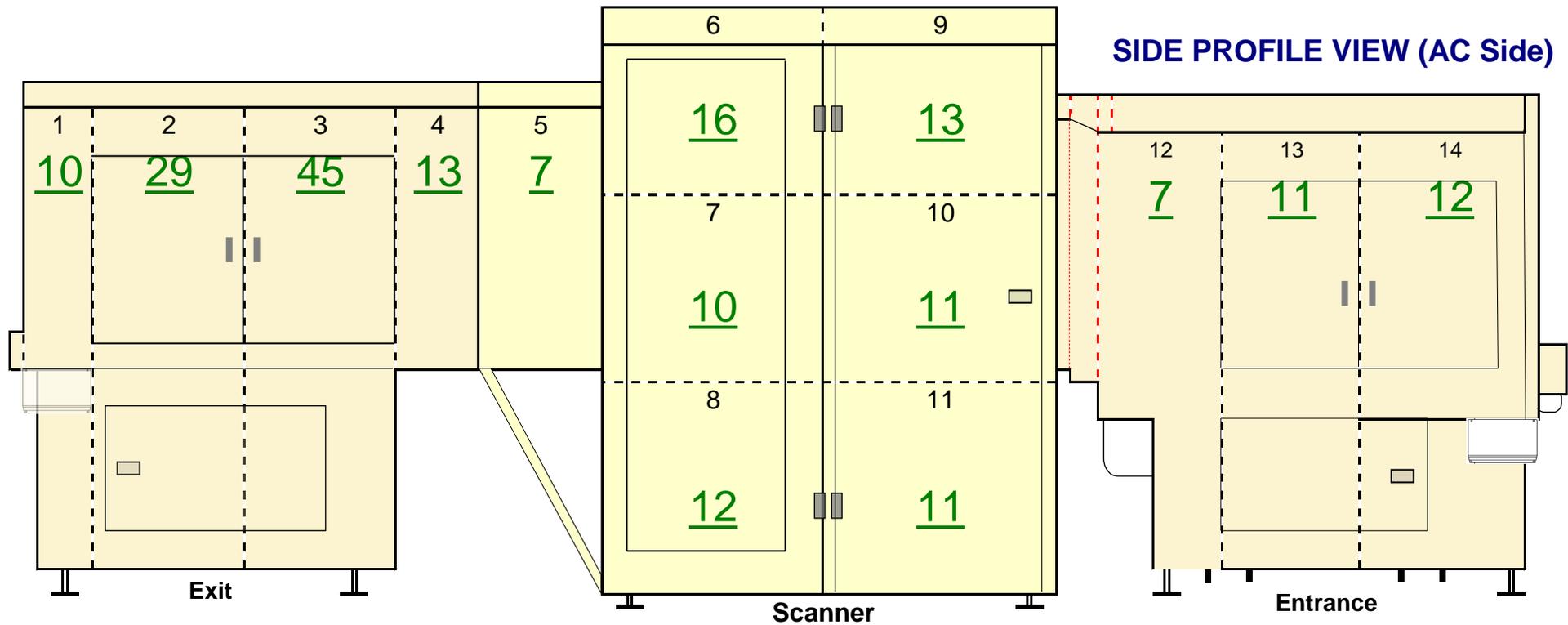


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel		$\mu\text{R}/\text{Hr}$
1	Entrance Conveyor Panel	11
2	Entrance Conveyor Panel	9
3	Entrance Conveyor Panel	7
4	Entrance Conveyor Panel	7
5	Entrance Conveyor / Scanner Panel	6
6	Upper Scanner Panel	9
7	Middle Scanner Panel	11
8	Lower Scanner Panel	8
9	Upper Scanner Panel	7
10	Middle Scanner Panel	6
11	Lower Scanner Panel	5
12	Exit Conveyor / Scanner Panel	8
13	Exit Conveyor Panel	6
14	Exit Conveyor Panel	31
15	Exit Conveyor Panel	3
16	Exit Conveyor Panel	9

GOOD

Highest Reading	31
Average Reading	9
Low Reading	3

# RADIATION SURVEY WORKSHEET



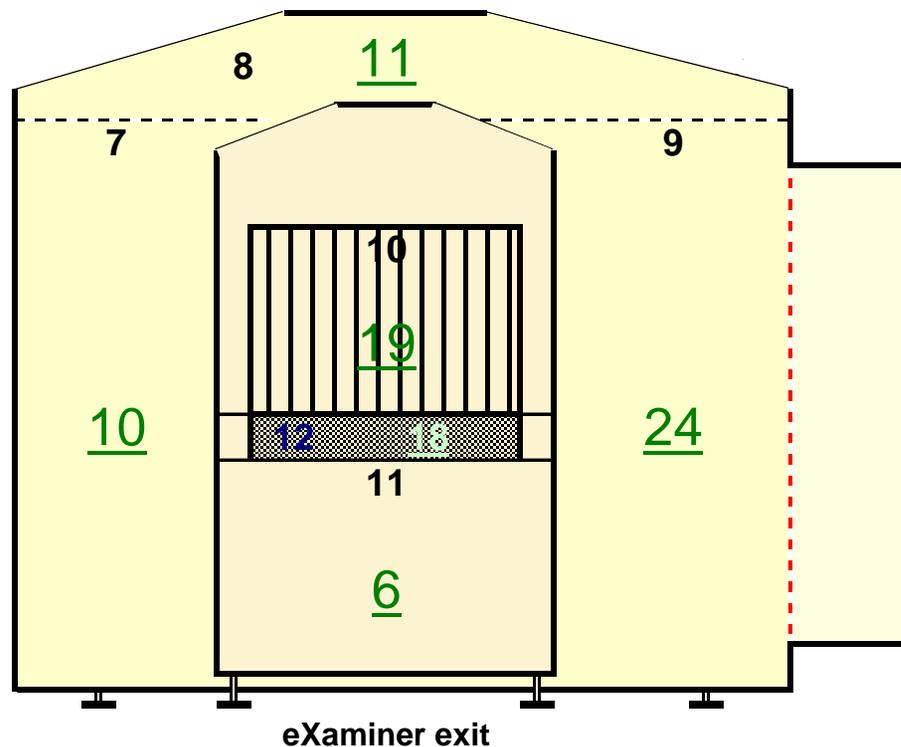
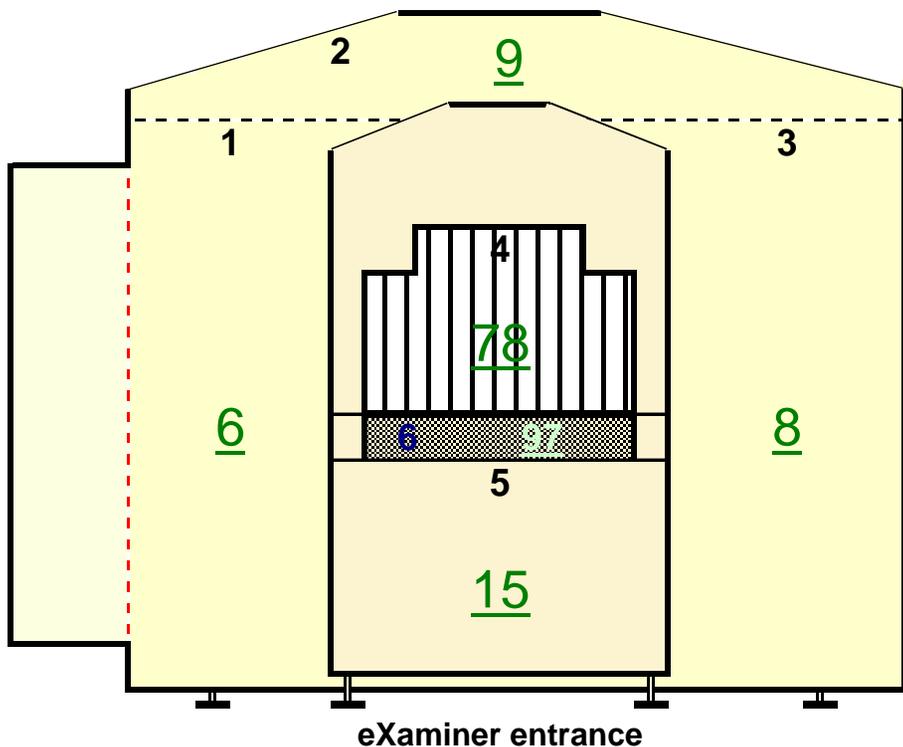
SYSTEM - SIDE PROFILE VIEW ( AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Exit Conveyor Panel	10	
2	Exit Conveyor Panel	29	
3	Exit Conveyor Panel	45	
4	Exit Conveyor Panel	13	
5	Exit Conveyor / Scanner Panel	7	
6	Upper Scanner Pane	16	
7	Middle Scanner Panel	10	
8	Lower Scanner Panel	12	
9	Upper Scanner Panel	13	
10	Middle Scanner Panel	11	
11	Lower Scanner Panel	11	
12	Entrance Conveyor / Scanner Panel	7	
13	Entrance Conveyor Panel	11	
14	Entrance Conveyor Panel	12	

GOOD

Highest Reading	45
Average Reading	15
Low Reading	7

# RADIATION SURVEY WORKSHEET

## SYSTEM - FACES (End Views)



SYSTEM - FACES (End Views)			
Scattered Radiation Measurement Points Worksheet			
Record highest reading per panel		$\mu\text{R}/\text{Hr}$	No PROBLEM
1	Scanner Panel	6	
2	Scanner Top Panel	9	
3	Scanner Panel	8	
4	Belt Entrance	78	
5	Entrance Lower Panel	15	
6	Belt Lower Fascia Cover Entrance	97	
7	Scanner Panel	10	
8	Scanner Top Panel	11	
9	Scanner Panel	24	
10	Belt Exit	19	
11	Exit Lower Panel	6	
12	Belt Lower Fascia Cover Exit	18	

GOOD

Highest Reading	97
Average Reading	25
Low Reading	6