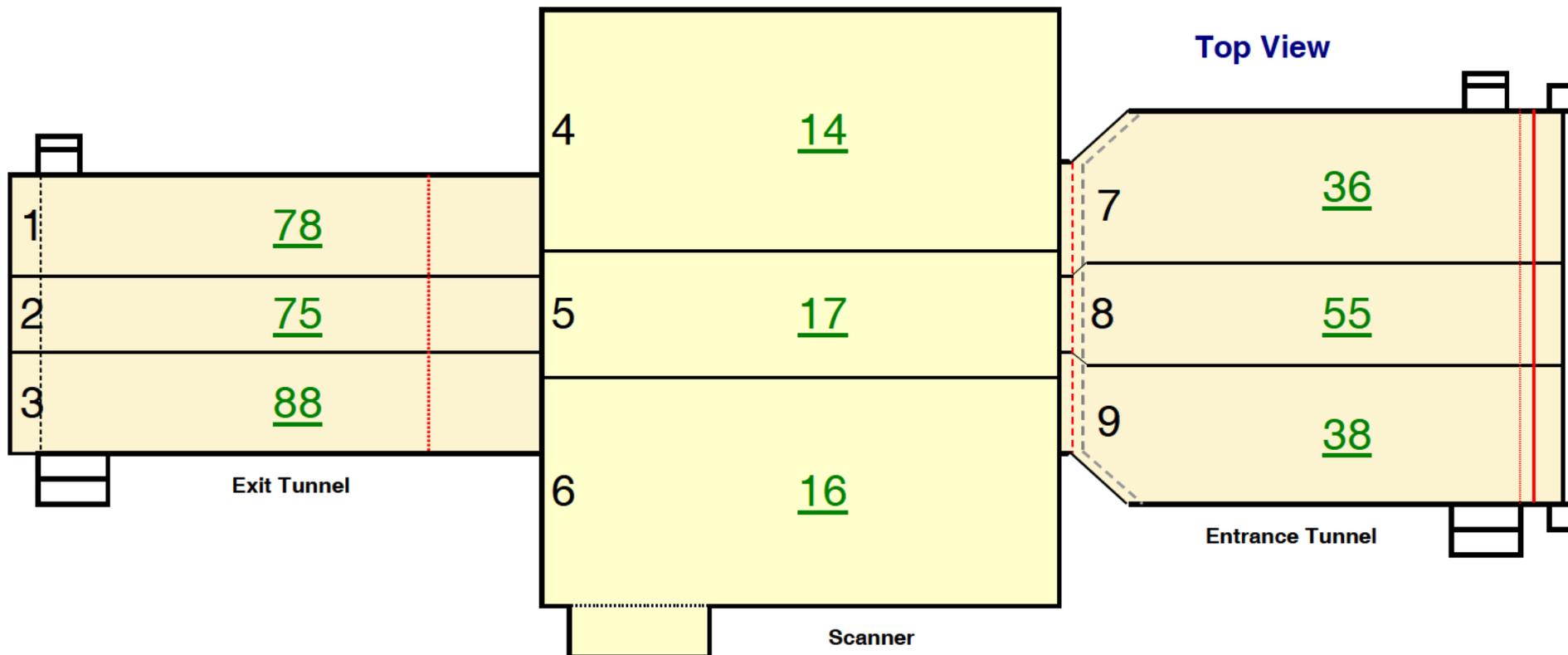


# RADIATION SURVEY WORKSHEET

## eXaminer Radiation Survey Information

Airport: <b>SJU</b>	Scanner Location: <b>Term. C</b>	Case#: <b>357657</b>							
Personnel Performing Radiation Survey:		Date Survey Performed: <b>3/10/2011</b>							
Scanner Serial Number: <b>6192</b>	Entrance Tunnel Serial Number: <b>2137A</b>	Exit Tunnel Serial Number: <b>2137B</b>							
High Reading: <b>40</b>	Average Reading: <b>14.68</b>	Min. Reading: <b>3</b>							
High Reading: <b>88</b>	Average Reading: <b>33.48</b>	Min. Reading: <b>6</b>							
High Reading: <b>288</b>	Average Reading: <b>72.67</b>	Min. Reading: <b>12</b>							
<b>Good</b>	<b>Good</b>	<b>Good</b>							
Radiation Meter: Type Meter: <b>451P</b>	Meter Serial Number: <b>96</b>	Calibration Due Date: <b>October 27, 2011</b>							
<div style="display: flex; justify-content: space-between;"> <span>N O T E S</span> <span>Complete Radiation Survey (CRS)</span> <span>Record Voltage and Bean Current here:</span> </div>									
Rename this Document before starting the Survey to:		Voltage: <b>164160</b> KV   Beam Current: <b>9.7</b> mA							
<b>357-CRS-10MAR2011-6192</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Maximum Safe Readings</td> <td>Scanner</td> <td>350</td> <td>Tunnels</td> <td>350</td> <td>Curtains</td> <td>350</td> </tr> </table>	Maximum Safe Readings	Scanner	350	Tunnels	350	Curtains	350
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 <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.	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

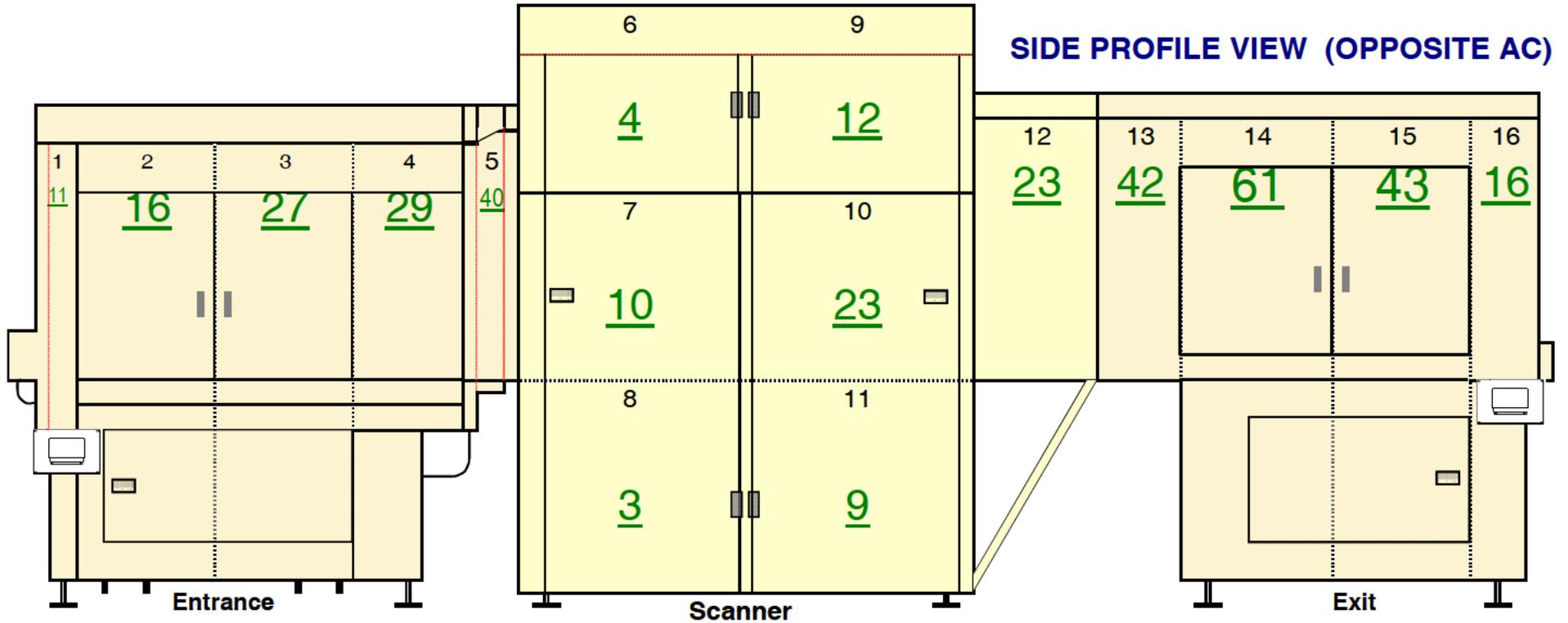


GOOD

Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Exit Conveyor Top Panel	78	
2	Exit Conveyor Top Panel	75	
3	Exit Conveyor Top Panel	88	
4	Scanner Conveyor Top Panel	14	
5	Scanner Conveyor Top Panel	17	
6	Scanner Conveyor Top Panel	16	
7	Entrance Conveyor Top Panel	36	
8	Entrance Conveyor Top Panel	55	
9	Entrance Conveyor Top Panel	38	

Highest Reading	88
Average Reading	46
Lowest Reading	14

# RADIATION SURVEY WORKSHEET

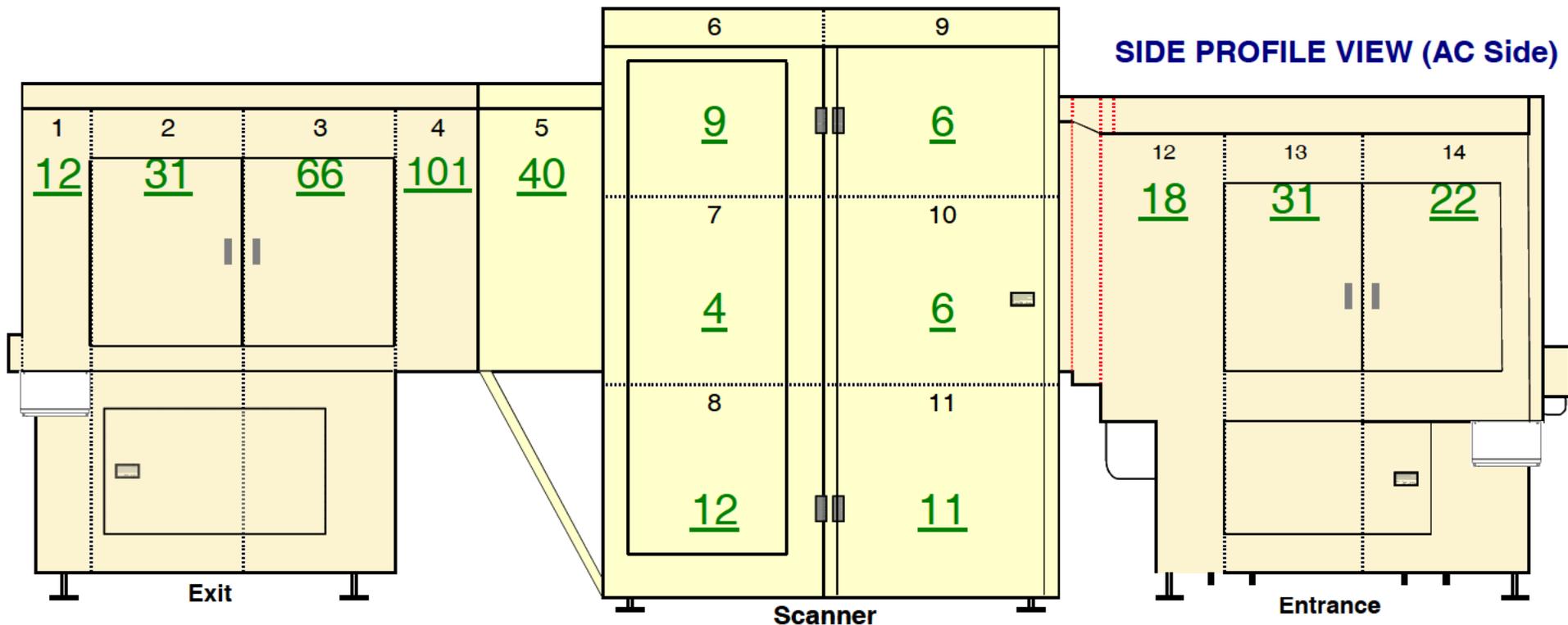


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Entrance Conveyor Panel	11	
2	Entrance Conveyor Panel	16	
3	Entrance Conveyor Panel	27	
4	Entrance Conveyor Panel	29	
5	Entrance Conveyor / Scanner Panel	40	
6	Upper Scanner Panel	4	
7	Middle Scanner Panel	10	
8	Lower Scanner Panel	3	
9	Upper Scanner Panel	12	
10	Middle Scanner Panel	23	
11	Lower Scanner Panel	9	
12	Exit Conveyor / Scanner Panel	23	
13	Exit Conveyor Panel	42	
14	Exit Conveyor Panel	61	
15	Exit Conveyor Panel	43	
16	Exit Conveyor Panel	16	

GOOD

Highest Reading	61
Average Reading	23
Low Reading	3

# RADIATION SURVEY WORKSHEET



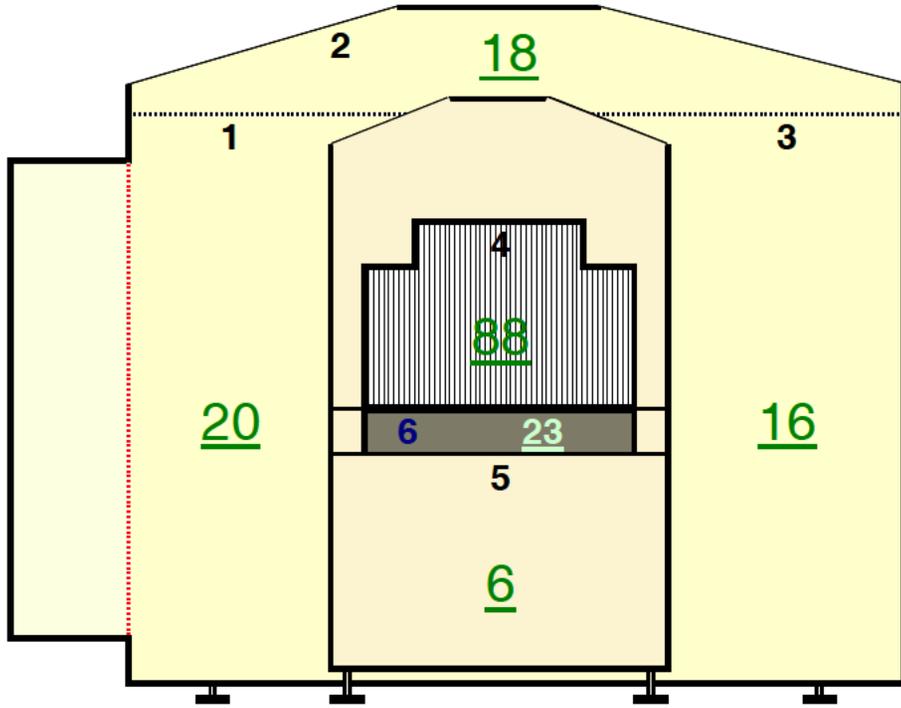
SYSTEM - SIDE PROFILE VIEW ( AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Exit Conveyor Panel	12	
2	Exit Conveyor Panel	31	
3	Exit Conveyor Panel	66	
4	Exit Conveyor Panel	101	
5	Exit Conveyor / Scanner Panel	40	
6	Upper Scanner Pane	9	
7	Middle Scanner Panel	4	
8	Lower Scanner Panel	12	
9	Upper Scanner Panel	6	
10	Middle Scanner Panel	6	
11	Lower Scanner Panel	11	
12	Entrance Conveyor / Scanner Panel	18	
13	Entrance Conveyor Panel	31	
14	Entrance Conveyor Panel	22	

GOOD

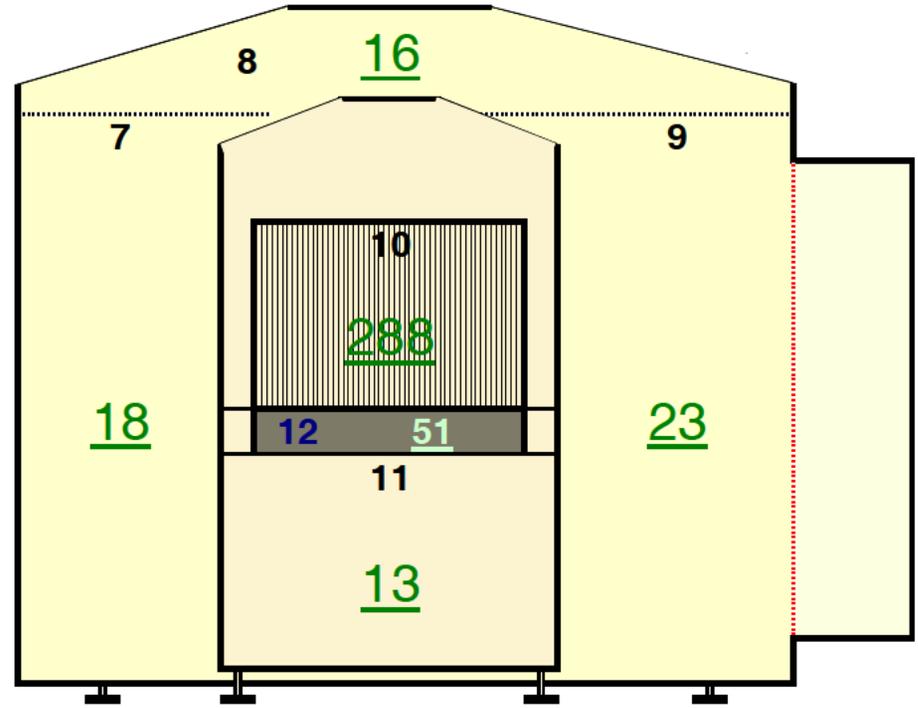
Highest Reading	101
Average Reading	26
Low Reading	4

# 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			μR/Hr
			No PROBLEM
1	Scanner Panel		20
2	Scanner Top Panel		18
3	Scanner Panel		16
4	Belt Entrance		88
5	Entrance Lower Panel		6
6	Belt Lower Facia Cover Entrance		23
7	Scanner Panel		18
8	Scanner Top Panel		16
9	Scanner Panel		23
10	Belt Exit		288
11	Exit Lower Panel		13
12	Belt Lower Facia Cover Exit		51

GOOD

Highest Reading	288
Average Reading	48
Low Reading	6