

RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

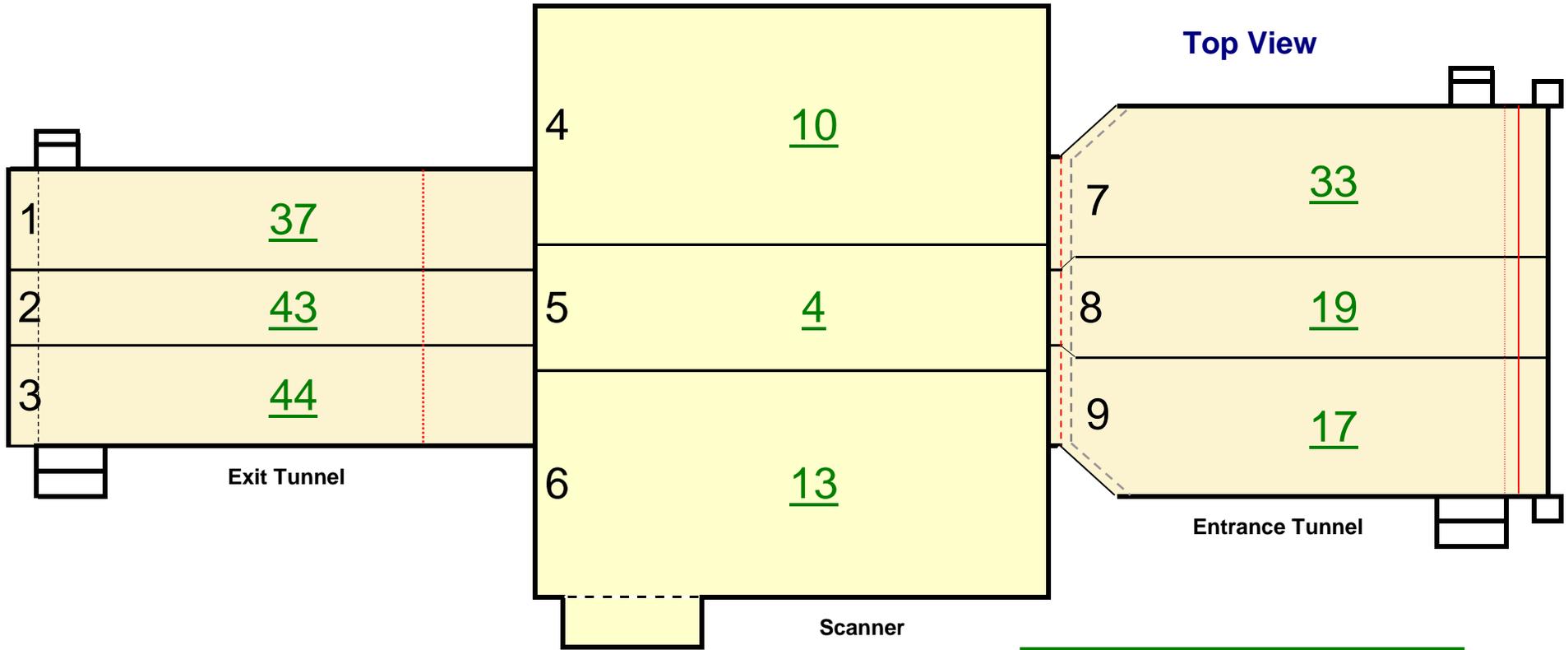
Airport: T.F Green Airport	Scanner Location: Baggage Handling Room	Case#: PVD-C356887
Personnel Performing Radiation Survey: XXXXXXXXXX		Date Survey Performed: 3/29/2011
Scanner Serial Number: 6757	Entrance Tunnel Serial Number: 1100	Exit Tunnel Serial Number: 1091-1B
High Reading: 42	Average Reading: 13.57	Min. Reading: 2
High Reading: 161	Average Reading: 31.96	Min. Reading: 9
High Reading: 47	Average Reading: 24.21	Min. Reading: 7
Good		
Radiation Meter: Type Meter: 451P	Meter Serial Number: 6230	Calibration Due Date: February 1, 2012

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Complete Radiation Survey (CRS)	Record Voltage and Beam Current here:													
<p>Rename this Document before starting the Survey to:</p> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">PVD-CRS-29MAR2011-6757</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Voltage:</td> <td style="width: 10%; text-align: center;"><u>165</u></td> <td style="width: 10%;">KV</td> <td style="width: 10%;">Beam Current:</td> <td style="width: 10%; text-align: center;"><u>10.0</u></td> <td style="width: 10%;">mA</td> </tr> <tr> <td>Maximum Safe Readings</td> <td>Scanner</td> <td style="text-align: center;">350</td> <td>Tunnels</td> <td style="text-align: center;">350</td> <td>Curtains</td> <td style="text-align: center;">350</td> </tr> </table>	Voltage:	<u>165</u>	KV	Beam Current:	<u>10.0</u>	mA	Maximum Safe Readings	Scanner	350	Tunnels	350	Curtains	350
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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 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 stickers and place on the eXaminer in accordance with Examiner Technical Bulletin ex253.	Readings shall not exceed 350 uR/hr in any box.

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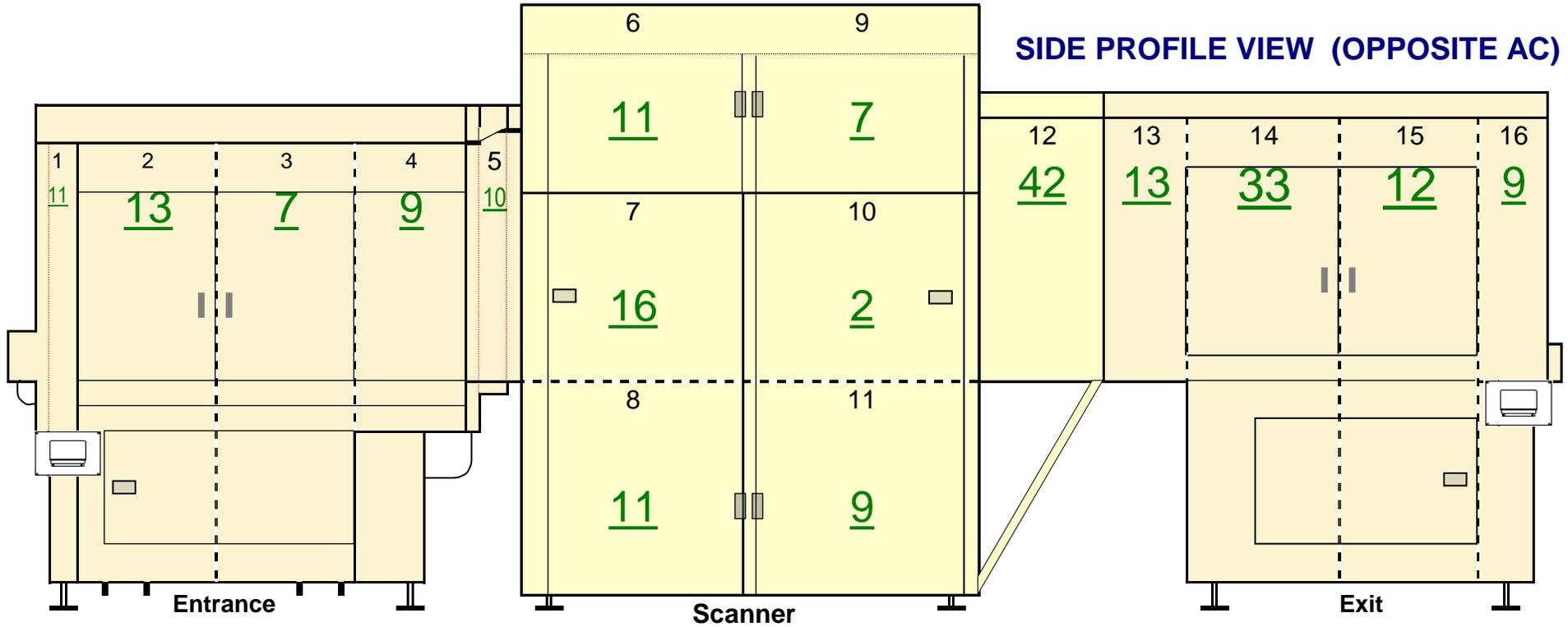


Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Exit Conveyor Top Panel	37	
2	Exit Conveyor Top Panel	43	
3	Exit Conveyor Top Panel	44	
4	Scanner Conveyor Top Panel	10	
5	Scanner Conveyor Top Panel	4	
6	Scanner Conveyor Top Panel	13	
7	Entrance Conveyor Top Panel	33	
8	Entrance Conveyor Top Panel	19	
9	Entrance Conveyor Top Panel	17	

Highest Reading	44
Average Reading	24
Lowest Reading	4

RADIATION SURVEY WORKSHEET

SIDE PROFILE VIEW (OPPOSITE AC)

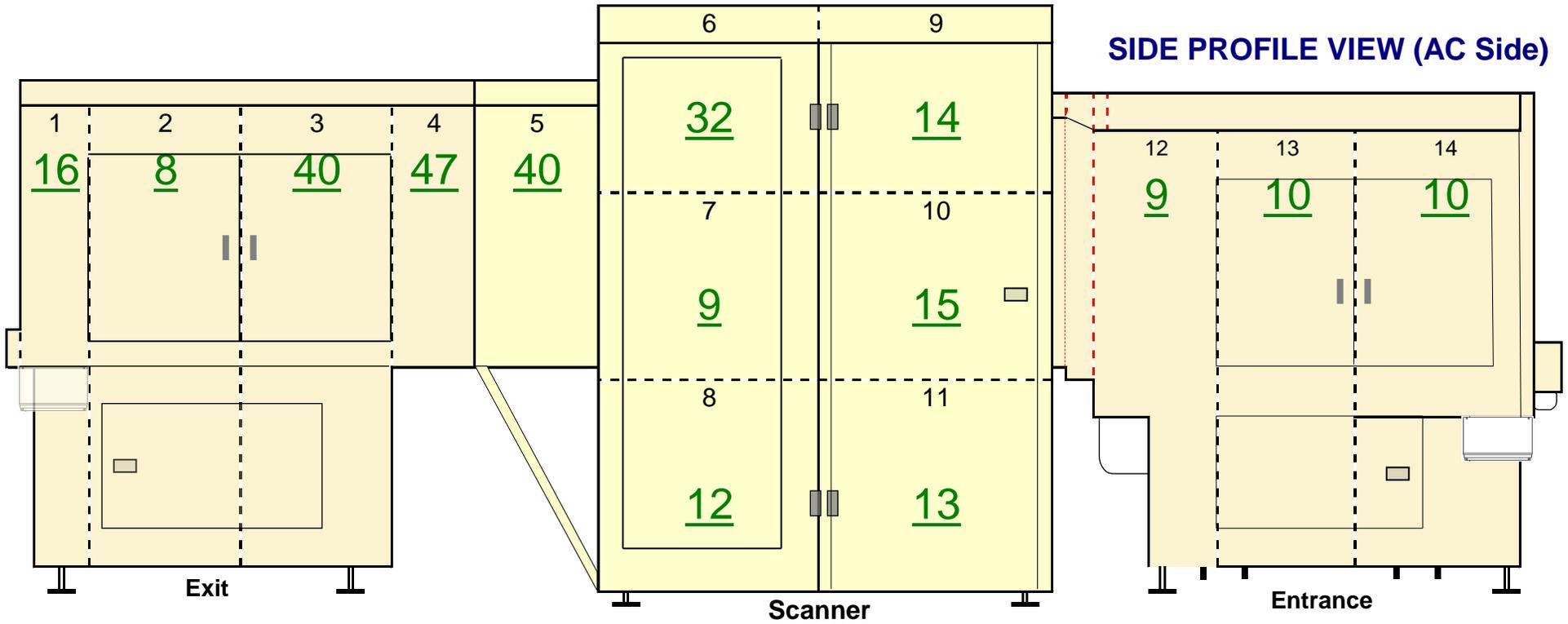


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)		
Scattered Radiation Measurement Points Worksheet		
	Record highest reading per panel	μR/Hr
1	Entrance Conveyor Panel	11
2	Entrance Conveyor Panel	13
3	Entrance Conveyor Panel	7
4	Entrance Conveyor Panel	9
5	Entrance Conveyor / Scanner Panel	10
6	Upper Scanner Panel	11
7	Middle Scanner Panel	16
8	Lower Scanner Panel	11
9	Upper Scanner Panel	7
10	Middle Scanner Panel	2
11	Lower Scanner Panel	9
12	Exit Conveyor / Scanner Panel	42
13	Exit Conveyor Panel	13
14	Exit Conveyor Panel	33
15	Exit Conveyor Panel	12
16	Exit Conveyor Panel	9

GOOD

Highest Reading	42
Average Reading	13
Low Reading	2

RADIATION SURVEY WORKSHEET



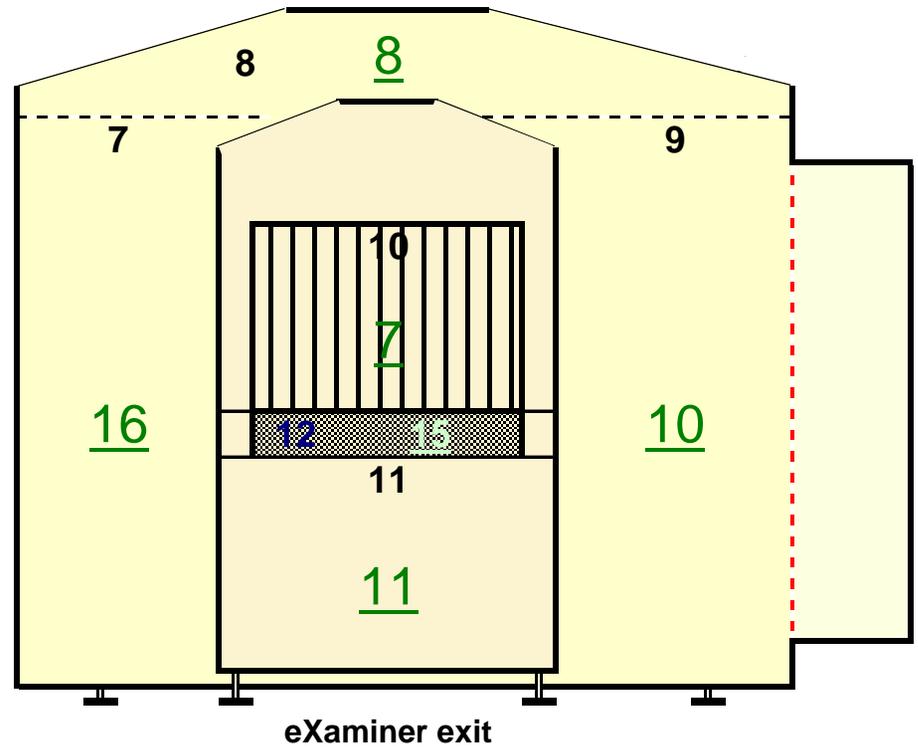
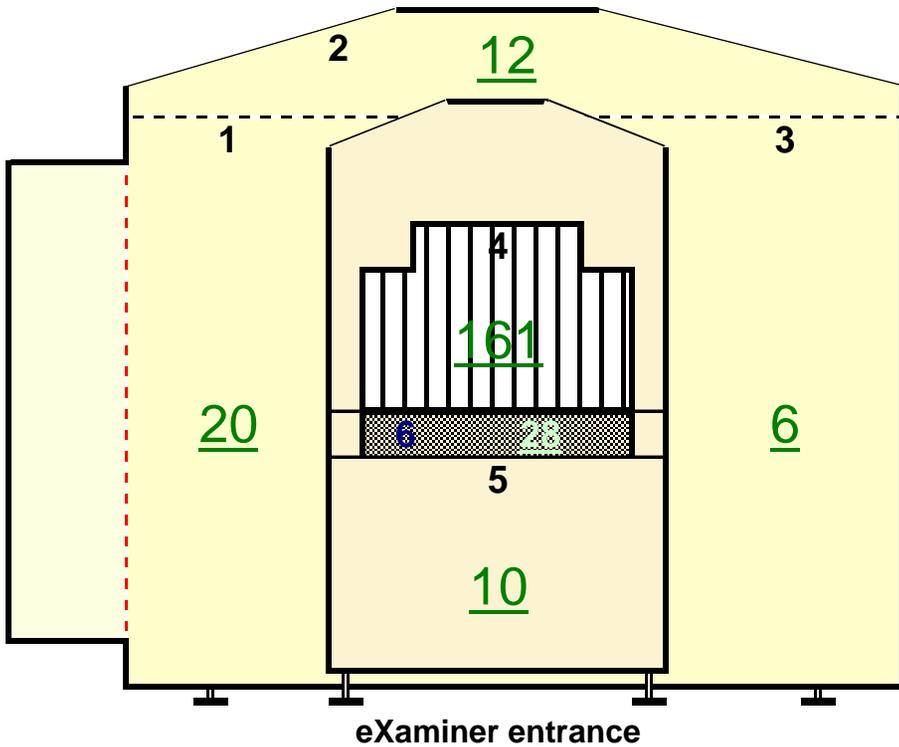
SYSTEM - SIDE PROFILE VIEW (AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Exit Conveyor Panel	16	
2	Exit Conveyor Panel	8	
3	Exit Conveyor Panel	40	
4	Exit Conveyor Panel	47	
5	Exit Conveyor / Scanner Panel	40	
6	Upper Scanner Pane	32	
7	Middle Scanner Panel	9	
8	Lower Scanner Panel	12	
9	Upper Scanner Panel	14	
10	Middle Scanner Panel	15	
11	Lower Scanner Panel	13	
12	Entrance Conveyor / Scanner Panel	9	
13	Entrance Conveyor Panel	10	
14	Entrance Conveyor Panel	10	

GOOD

Highest Reading	47
Average Reading	20
Low Reading	8

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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	20	
2	Scanner Top Panel	12	
3	Scanner Panel	6	
4	Belt Entrance	161	
5	Entrance Lower Panel	10	
6	Belt Lower Facia Cover Entrance	28	
7	Scanner Panel	16	
8	Scanner Top Panel	8	
9	Scanner Panel	10	
10	Belt Exit	7	
11	Exit Lower Panel	11	
12	Belt Lower Facia Cover Exit	15	

GOOD

Highest Reading	161
Average Reading	25
Low Reading	6