

RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

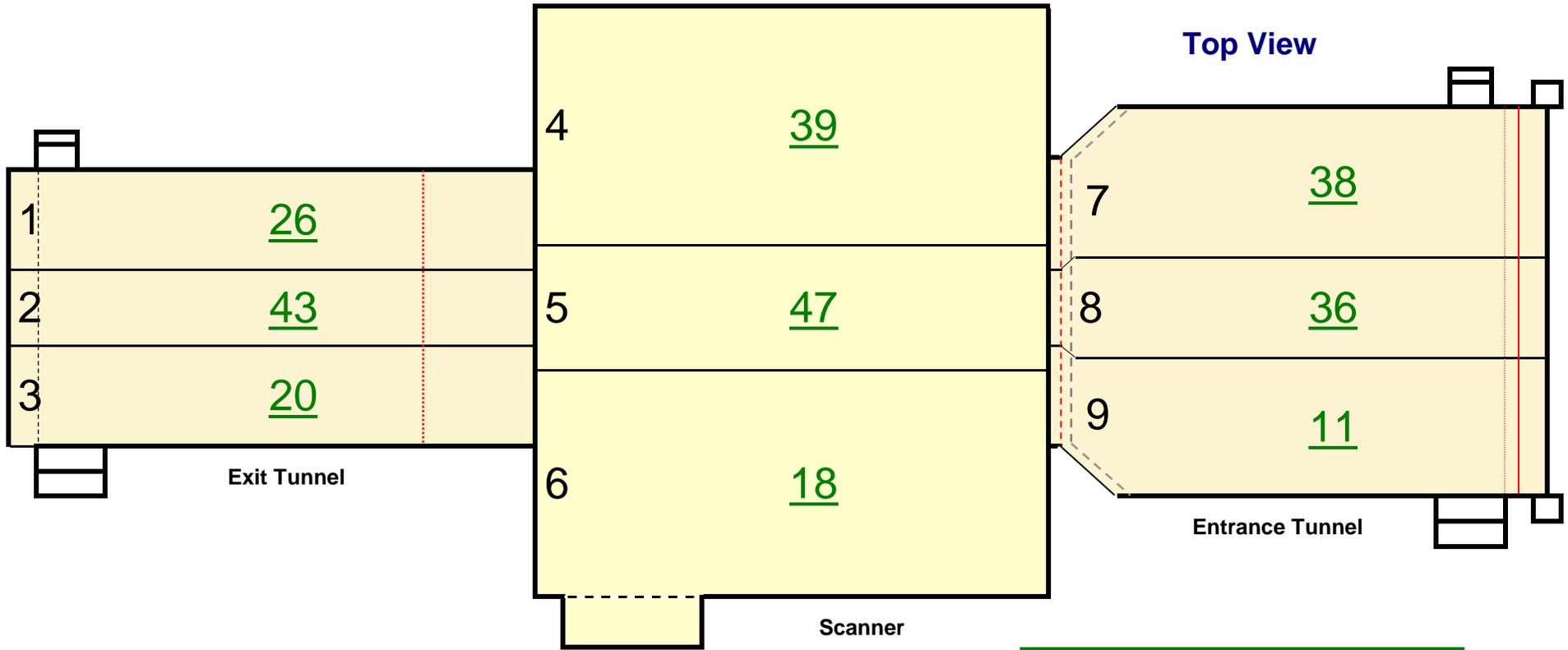
Airport: John Wayne Airport/SNA	Scanner Location: Baggage Handling Room	Case#: SNA 357646
Personnel Performing Radiation Survey: XXXXXXXXXX		Date Survey Performed: 3/14/2011
Scanner Serial Number: 6038	Entrance Tunnel Serial Number: 5103A	Exit Tunnel Serial Number: 5103B
High Reading: 47	Average Reading: 22.65	Min. Reading: 4
High Reading: 128	Average Reading: 33.40	Min. Reading: 6
High Reading: 200	Average Reading: 54.90	Min. Reading: 10
Good	Good	Good
Radiation Meter: Type Meter: 451P	Meter Serial Number: 6706	Calibration Due Date: October 26, 2011

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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; color: blue;">SNA-CRS-14MAR2011-6038</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Voltage: 140 KV</td> <td style="width: 30%;">Beam Current: 10.0 mA</td> </tr> <tr> <td>Maximum Safe Readings</td> <td>Scanner 350 Tunnels 350 Curtains 350</td> </tr> </table>	Voltage: 140 KV	Beam Current: 10.0 mA	Maximum Safe Readings	Scanner 350 Tunnels 350 Curtains 350
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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 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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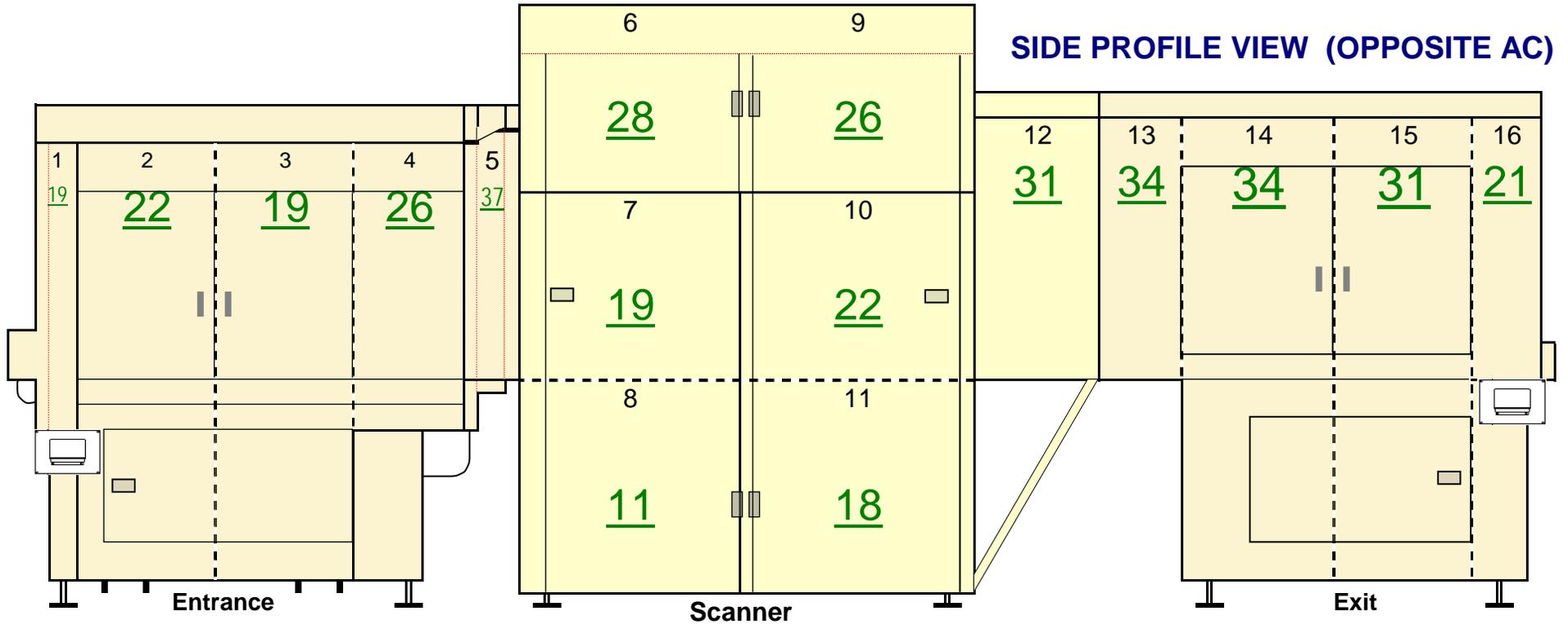


GOOD

Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		$\mu\text{R}/\text{Hr}$	
1	Exit Conveyor Top Panel	26	
2	Exit Conveyor Top Panel	43	
3	Exit Conveyor Top Panel	20	
4	Scanner Conveyor Top Panel	39	
5	Scanner Conveyor Top Panel	47	
6	Scanner Conveyor Top Panel	18	
7	Entrance Conveyor Top Panel	38	
8	Entrance Conveyor Top Panel	36	
9	Entrance Conveyor Top Panel	11	

Highest Reading	47
Average Reading	31
Lowest Reading	11

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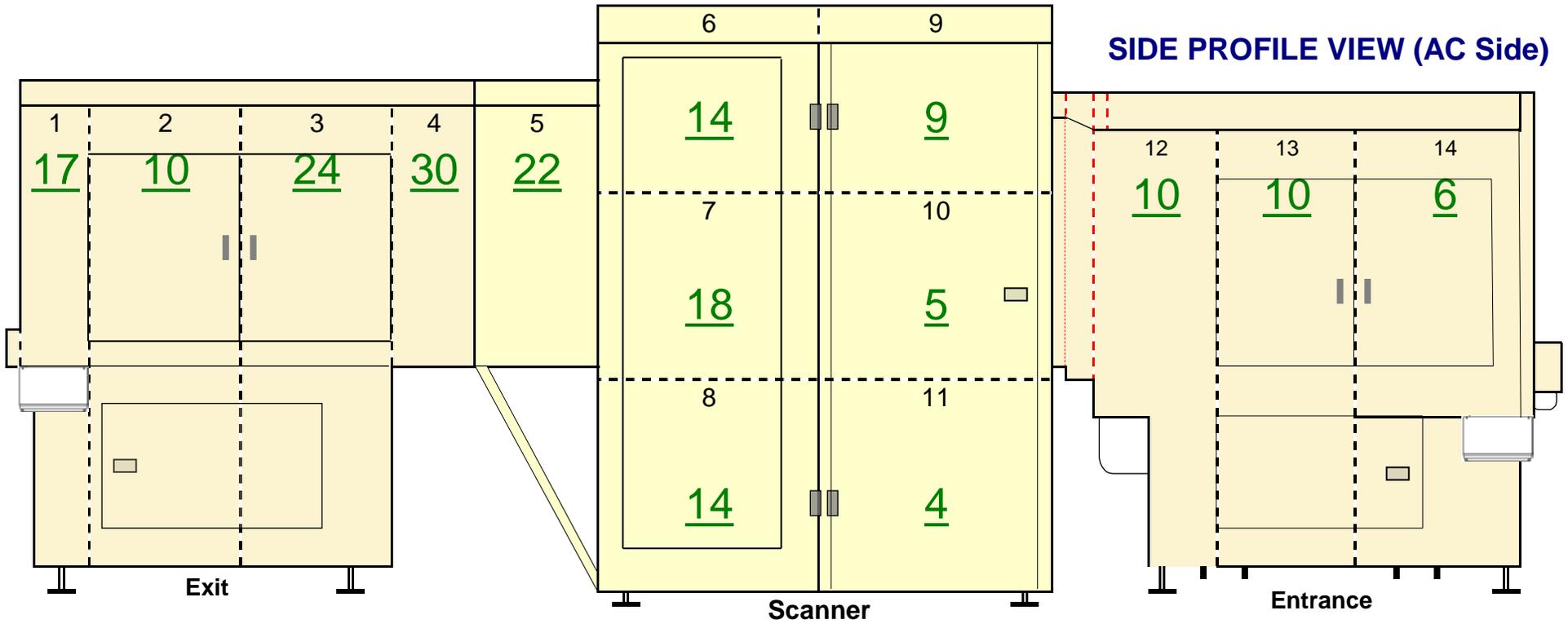


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel		μR/Hr
1	Entrance Conveyor Panel	19
2	Entrance Conveyor Panel	22
3	Entrance Conveyor Panel	19
4	Entrance Conveyor Panel	26
5	Entrance Conveyor / Scanner Panel	37
6	Upper Scanner Panel	28
7	Middle Scanner Panel	19
8	Lower Scanner Panel	11
9	Upper Scanner Panel	26
10	Middle Scanner Panel	22
11	Lower Scanner Panel	18
12	Exit Conveyor / Scanner Panel	31
13	Exit Conveyor Panel	34
14	Exit Conveyor Panel	34
15	Exit Conveyor Panel	31
16	Exit Conveyor Panel	21

GOOD

Highest Reading	37
Average Reading	25
Low Reading	11

RADIATION SURVEY WORKSHEET



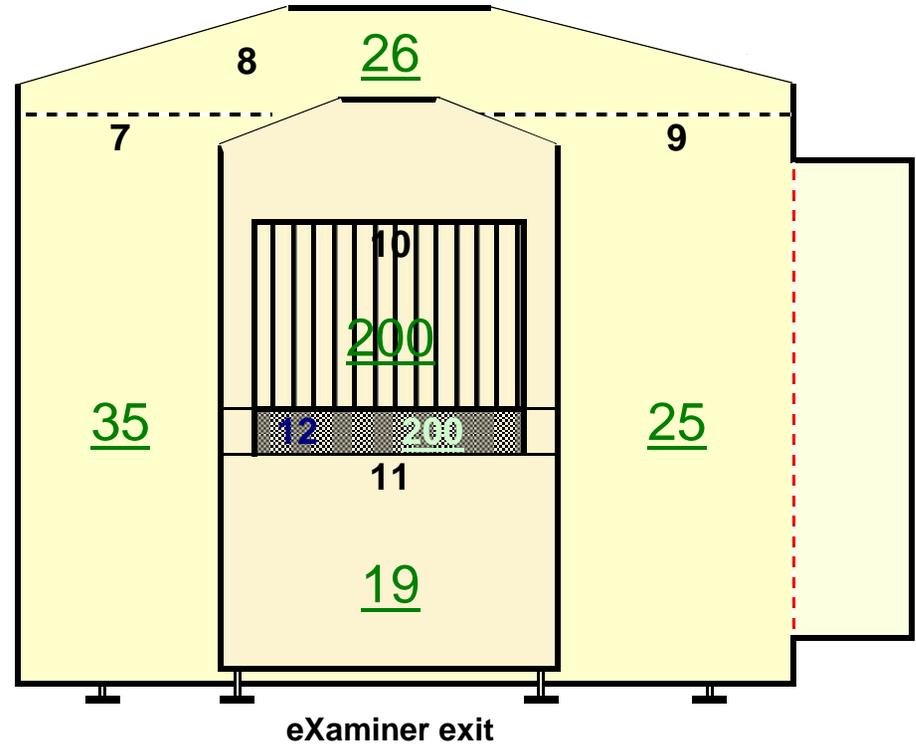
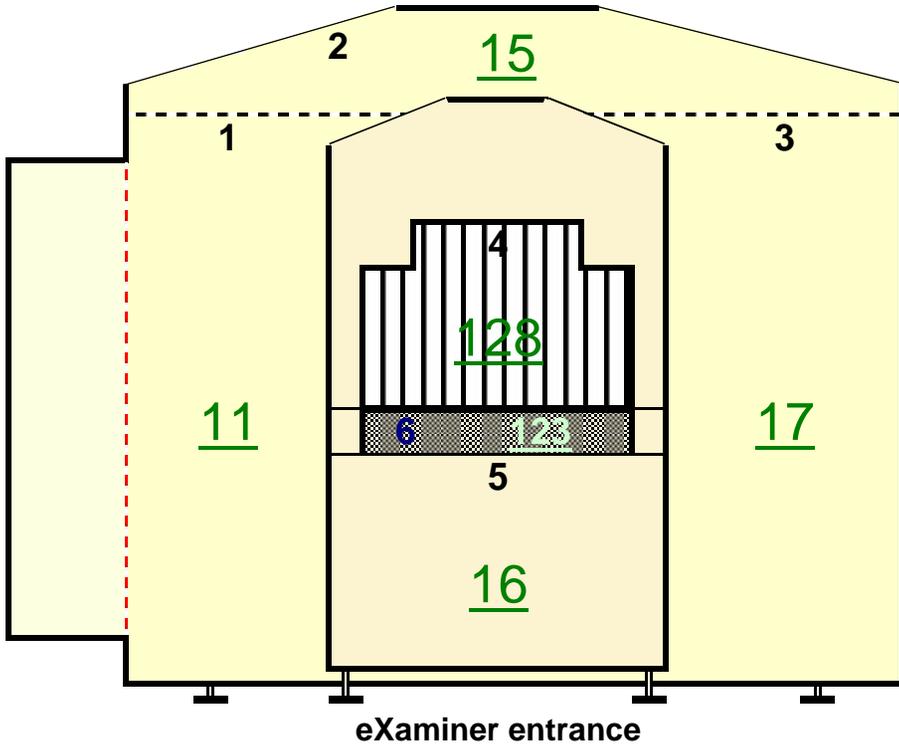
SYSTEM - SIDE PROFILE VIEW (AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel		μR/Hr
1	Exit Conveyor Panel	17
2	Exit Conveyor Panel	10
3	Exit Conveyor Panel	24
4	Exit Conveyor Panel	30
5	Exit Conveyor / Scanner Panel	22
6	Upper Scanner Pane	14
7	Middle Scanner Panel	18
8	Lower Scanner Panel	14
9	Upper Scanner Panel	9
10	Middle Scanner Panel	5
11	Lower Scanner Panel	4
12	Entrance Conveyor / Scanner Panel	10
13	Entrance Conveyor Panel	10
14	Entrance Conveyor Panel	6

GOOD

Highest Reading	30
Average Reading	14
Low Reading	4

RADIATION SURVEY WORKSHEET

SYSTEM - FACES (End Views)



SYSTEM - FACES (End Views)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel		$\mu\text{R}/\text{Hr}$
1	Scanner Panel	11
2	Scanner Top Panel	15
3	Scanner Panel	17
4	Belt Entrance	128
5	Entrance Lower Panel	16
6	Belt Lower Fascia Cover Entrance	123
7	Scanner Panel	35
8	Scanner Top Panel	26
9	Scanner Panel	25
10	Belt Exit	200
11	Exit Lower Panel	19
12	Belt Lower Fascia Cover Exit	200

GOOD

Highest Reading	200
Average Reading	68
Low Reading	11