RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

Airport:	FLL	Scanner Location:	Terminal 1	Case#:	FLL352073
Personnel Performing Radiation Survey:	[redacted]			Date Survey Performed:	3/2/2011

Scanner Serial Number:	6280		Entrance Tunnel Serial Number:	2222A		Exit Tunnel Serial Number:	2222B	
High Reading:	Average Reading:	Min. Reading:	High Reading:	Average Reading:	Min. Reading:	High Reading:	Average Reading:	Min. Reading:
76	32.96	11	121	47.11	24	69	46.83	14
Good			Good			Good		

Radiation Meter:	Type Meter:	451P	Meter Serial Number:	68	Calibration Due Date:	March 8, 2011

NOTES

Complete Radiation Survey (CRS)	Record Voltage and Bean Current here:							
Rename this Document before starting the Survey to: FLL-CRS-2MAR2011-6280	Voltage:	165	KV	Beam Current:	9.9	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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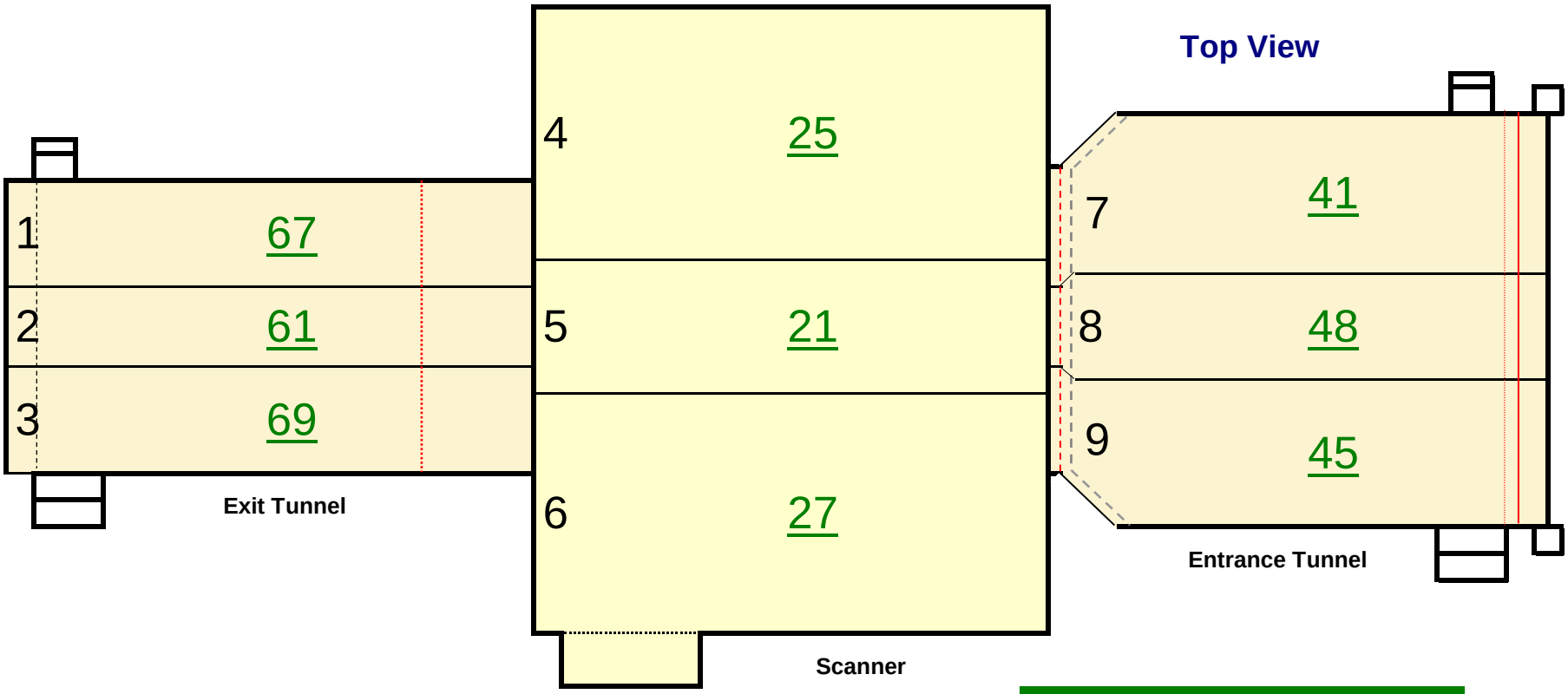


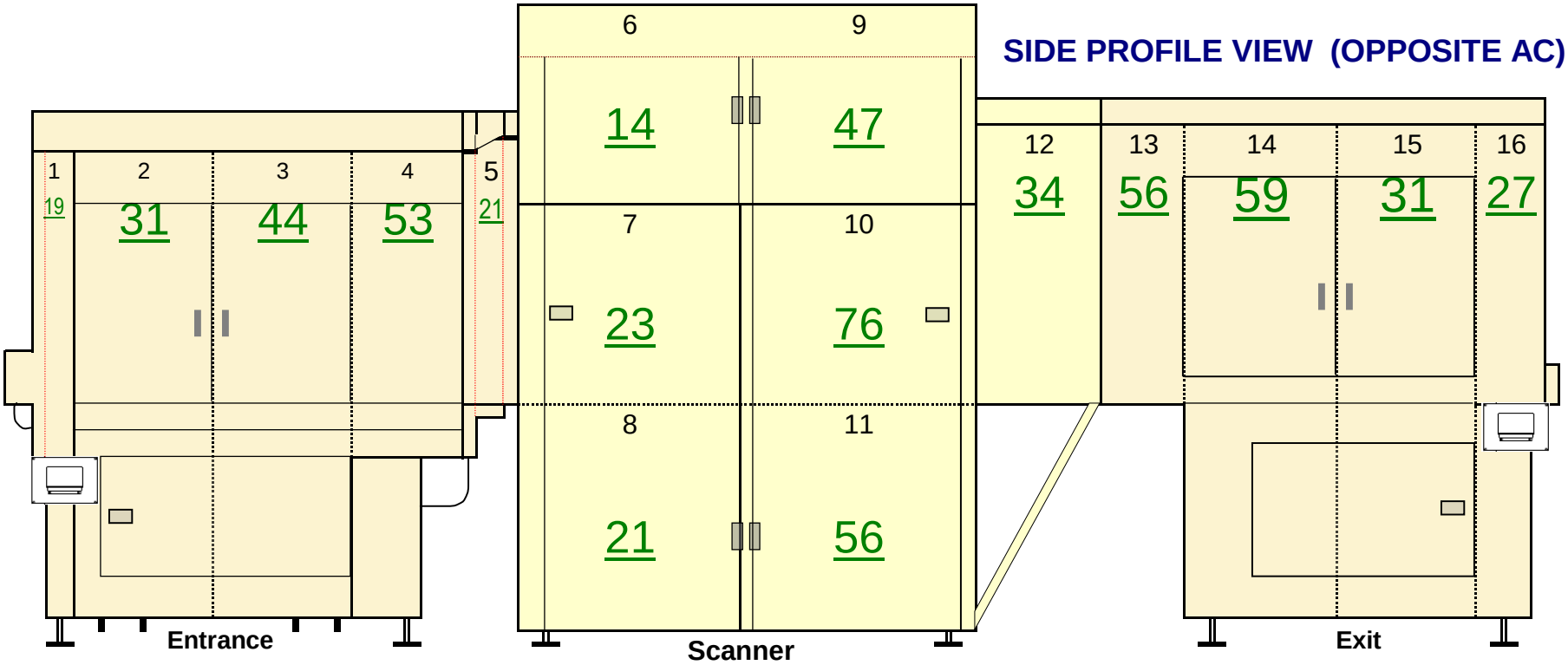
GOOD

Top View			
Scattered Radiation Measurement Points Worksheet			**No PROBLEM**
Record highest reading per panel		**µR/Hr**	
1	Exit Conveyor Top Panel	67	
2	Exit Conveyor Top Panel	61	
3	Exit Conveyor Top Panel	69	
4	Scanner Conveyor Top Panel	25	
5	Scanner Conveyor Top Panel	21	
6	Scanner Conveyor Top Panel	27	
7	Entrance Conveyor Top Panel	41	
8	Entrance Conveyor Top Panel	48	
9	Entrance Conveyor Top Panel	45	

Highest Reading	69
Average Reading	45
Lowest Reading	21

RADIATION SURVEY WORKSHEET

SIDE PROFILE VIEW (OPPOSITE AC)

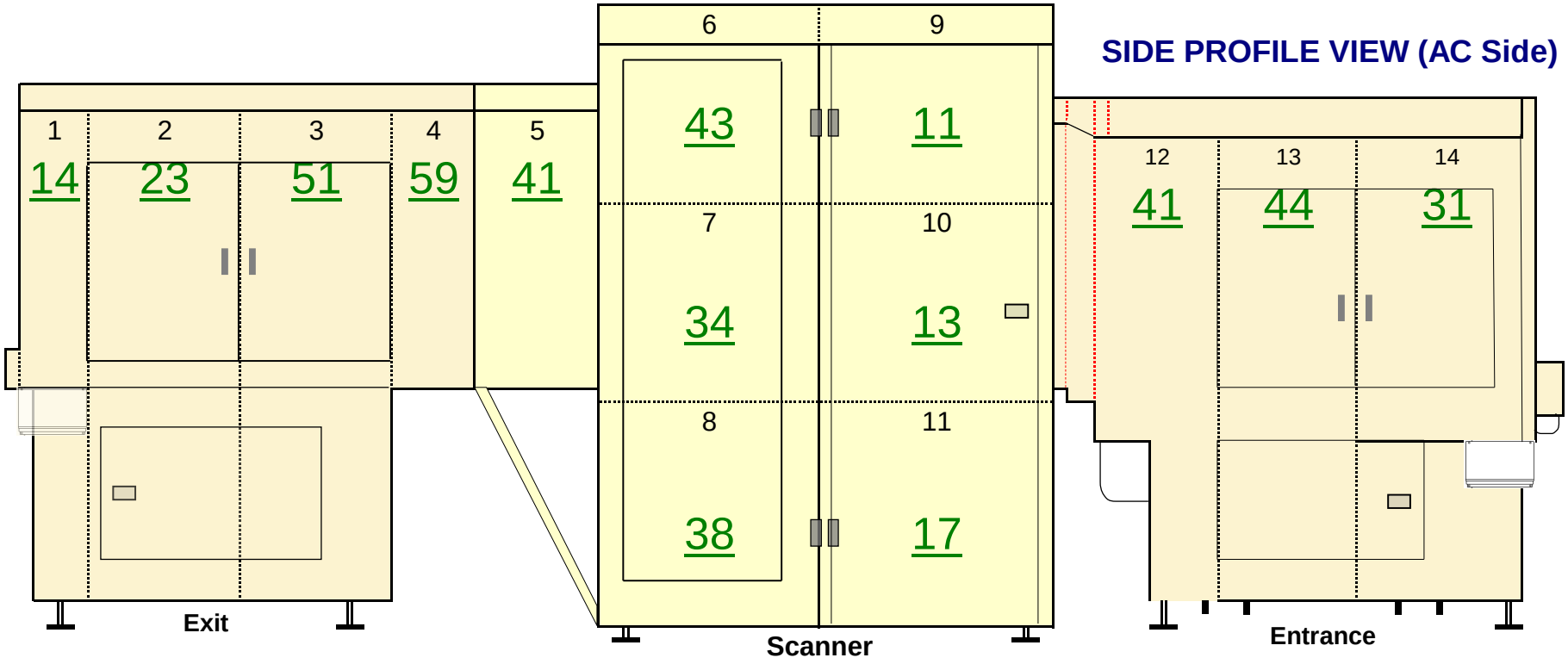


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)			
Scattered Radiation Measurement Points Worksheet			**No PROBLEM**
Record highest reading per panel		**µR/Hr**	
1	Entrance Conveyor Panel	19	
2	Entrance Conveyor Panel	31	
3	Entrance Conveyor Panel	44	
4	Entrance Conveyor Panel	53	
5	Entrance Conveyor / Scanner Panel	21	
6	Upper Scanner Panel	14	
7	Middle Scanner Panel	23	
8	Lower Scanner Panel	21	
9	Upper Scanner Panel	47	
10	Middle Scanner Panel	76	
11	Lower Scanner Panel	56	
12	Exit Conveyor / Scanner Panel	34	
13	Exit Conveyor Panel	56	
14	Exit Conveyor Panel	59	
15	Exit Conveyor Panel	31	
16	Exit Conveyor Panel	27	

GOOD

Highest Reading	76
Average Reading	38
Low Reading	14

RADIATION SURVEY WORKSHEET



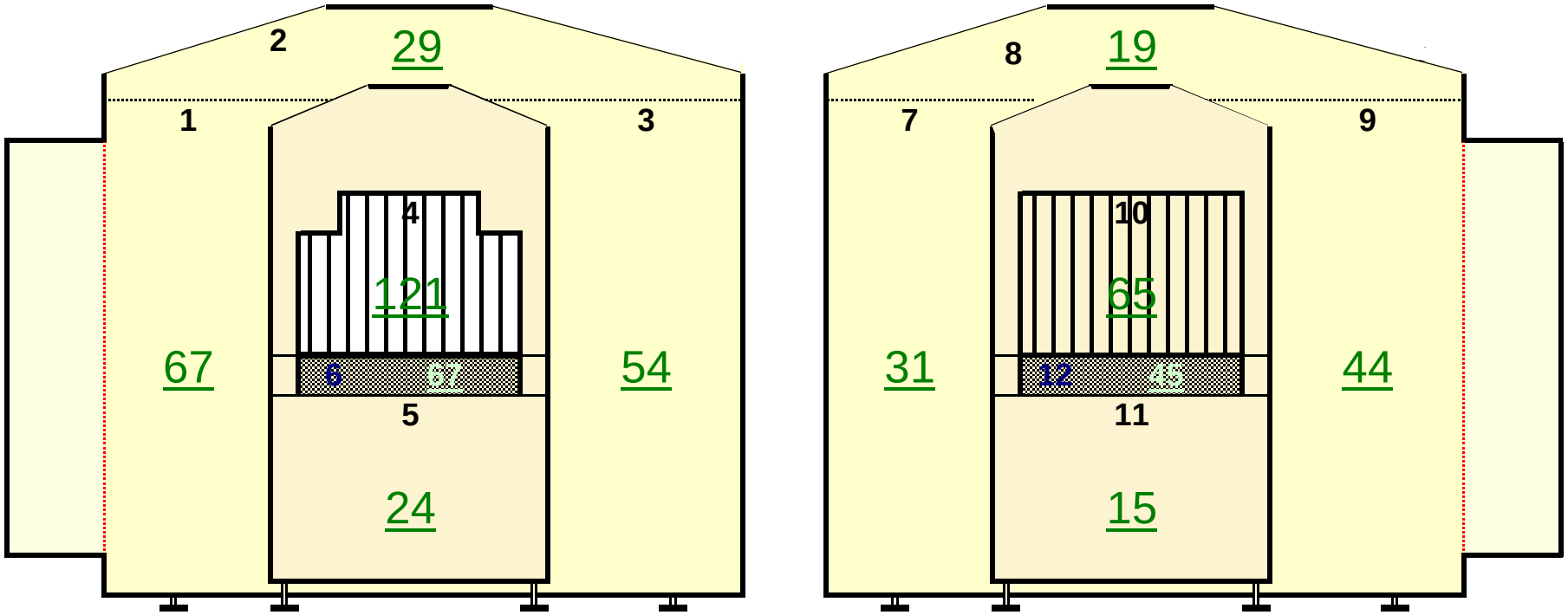
SYSTEM - SIDE PROFILE VIEW (AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Exit Conveyor Panel	14	
2	Exit Conveyor Panel	23	
3	Exit Conveyor Panel	51	
4	Exit Conveyor Panel	59	
5	Exit Conveyor / Scanner Panel	41	
6	Upper Scanner Pane	43	
7	Middle Scanner Panel	34	
8	Lower Scanner Panel	38	
9	Upper Scanner Panel	11	
10	Middle Scanner Panel	13	
11	Lower Scanner Panel	17	
12	Entrance Conveyor / Scanner Panel	41	
13	Entrance Conveyor Panel	44	
14	Entrance Conveyor Panel	31	

GOOD

Highest Reading	59
Average Reading	33
Low Reading	11

RADIATION SURVEY WORKSHEET

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	67	
2	Scanner Top Panel	29	
3	Scanner Panel	54	
4	Belt Entrance	121	
5	Entrance Lower Panel	24	
6	Belt Lower Facia Cover Entrance	67	
7	Scanner Panel	31	
8	Scanner Top Panel	19	
9	Scanner Panel	44	
10	Belt Exit	65	
11	Exit Lower Panel	15	
12	Belt Lower Facia Cover Exit	45	

GOOD

Highest Reading	121
Average Reading	48
Low Reading	15