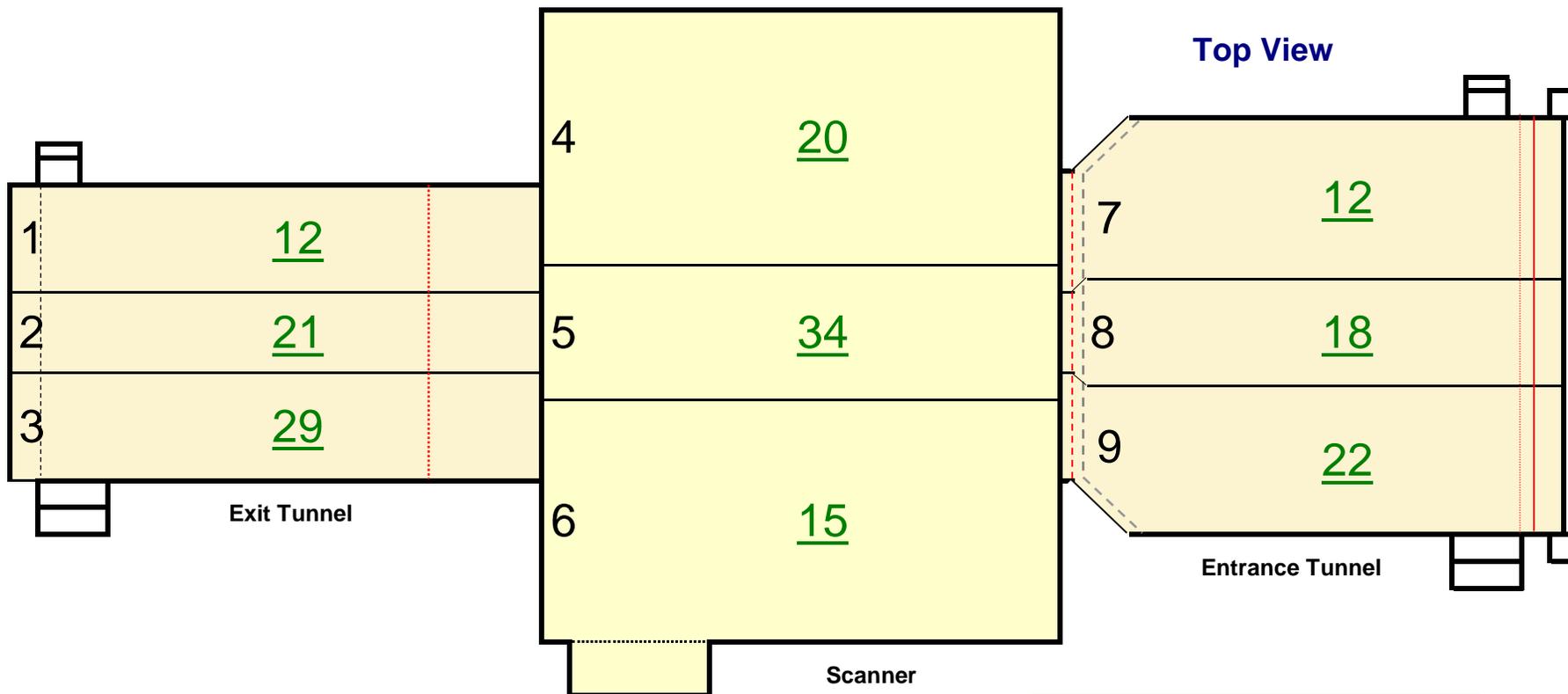


RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

Airport: FLL	Scanner Location: TERM 1	Case#: FLL360746
Personnel Performing Radiation Survey: XXXXXXXXXX		Date Survey Performed: 3/17/2011
Scanner Serial Number: 6150	Entrance Tunnel Serial Number: 2086a	Exit Tunnel Serial Number: 2086b
High Reading: 34 Average Reading: 19.40 Min. Reading: 10	High Reading: 82 Average Reading: 22.17 Min. Reading: 11	High Reading: 48 Average Reading: 23.21 Min. Reading: 12
Good	Good	Good
Radiation Meter: Type Meter: 451P	Meter Serial Number: 46	Calibration Due Date: March 3, 2012
N O T E S		
Complete Radiation Survey (CRS)	Record Voltage and Beam Current here:	
Rename this Document before starting the Survey to:	Voltage: 165 KV	Beam Current: 9.9 mA
FLL-CRS-17MAR2011-6150	Maximum Safe Readings	Scanner 350 Tunnels 350 Curtains 350
Step:	Procedure	Expected results
1.	Set Up: Obtain Invision 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.

RADIATION SURVEY WORKSHEET



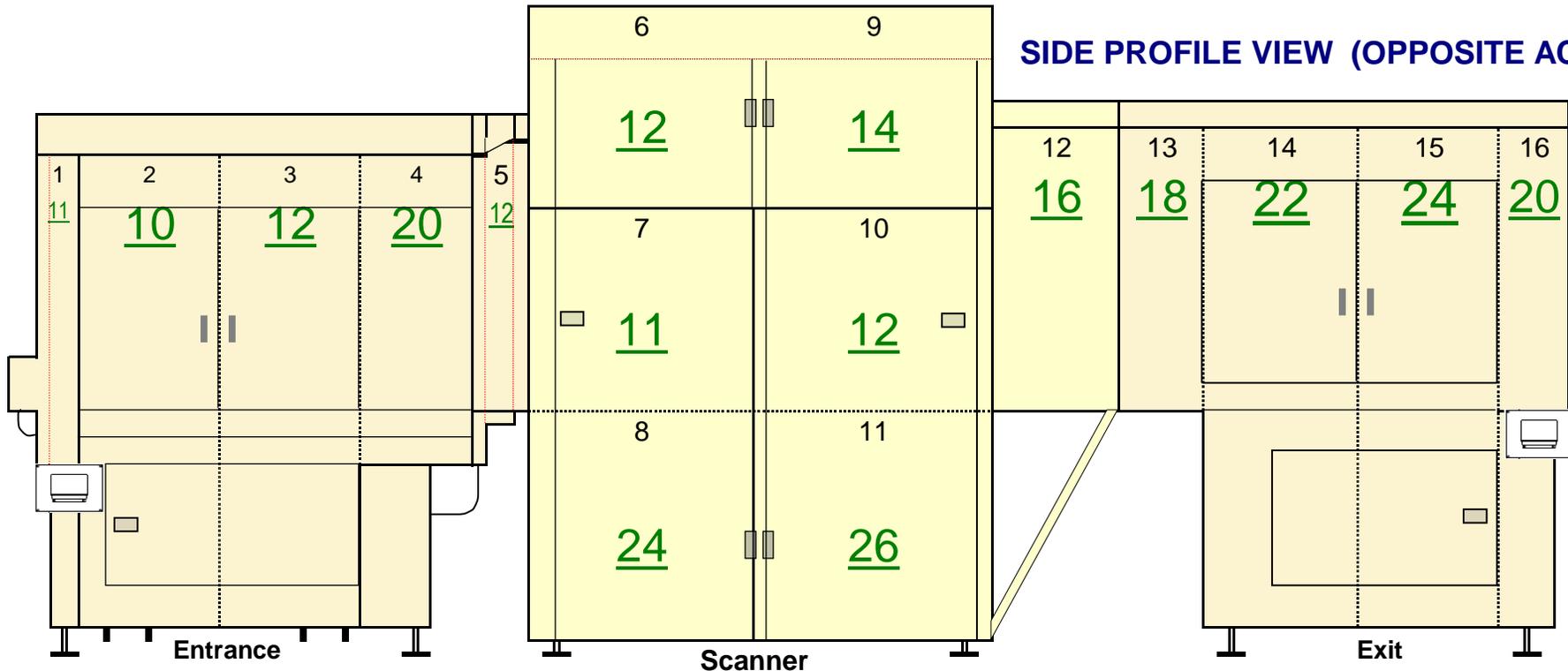
GOOD

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	21	
3	Exit Conveyor Top Panel	29	
4	Scanner Conveyor Top Panel	20	
5	Scanner Conveyor Top Panel	34	
6	Scanner Conveyor Top Panel	15	
7	Entrance Conveyor Top Panel	12	
8	Entrance Conveyor Top Panel	18	
9	Entrance Conveyor Top Panel	22	

Highest Reading	34
Average Reading	20
Lowest Reading	12

RADIATION SURVEY WORKSHEET

SIDE PROFILE VIEW (OPPOSITE AC)

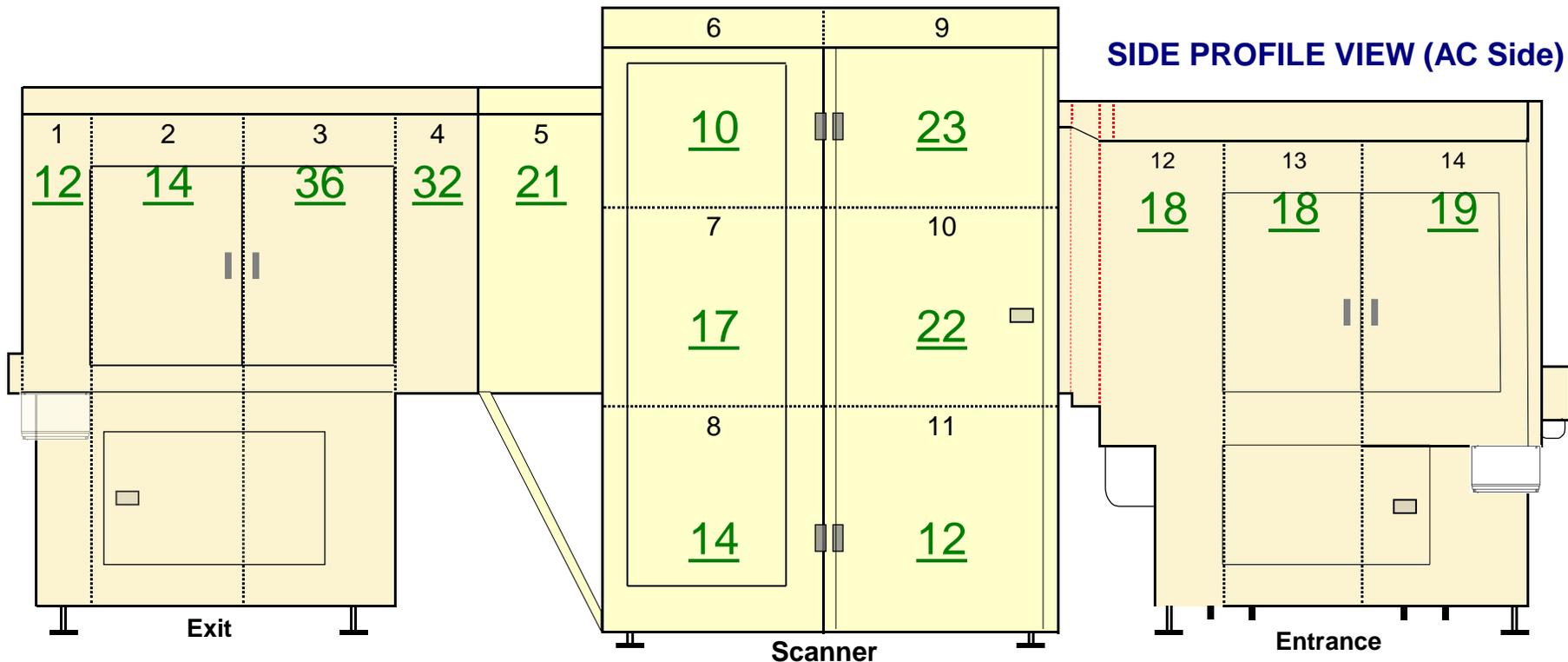


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Entrance Conveyor Panel	11	
2	Entrance Conveyor Panel	10	
3	Entrance Conveyor Panel	12	
4	Entrance Conveyor Panel	20	
5	Entrance Conveyor / Scanner Panel	12	
6	Upper Scanner Panel	12	
7	Middle Scanner Panel	11	
8	Lower Scanner Panel	24	
9	Upper Scanner Panel	14	
10	Middle Scanner Panel	12	
11	Lower Scanner Panel	26	
12	Exit Conveyor / Scanner Panel	16	
13	Exit Conveyor Panel	18	
14	Exit Conveyor Panel	22	
15	Exit Conveyor Panel	24	
16	Exit Conveyor Panel	20	

GOOD

Highest Reading	26
Average Reading	17
Low Reading	10

RADIATION SURVEY WORKSHEET



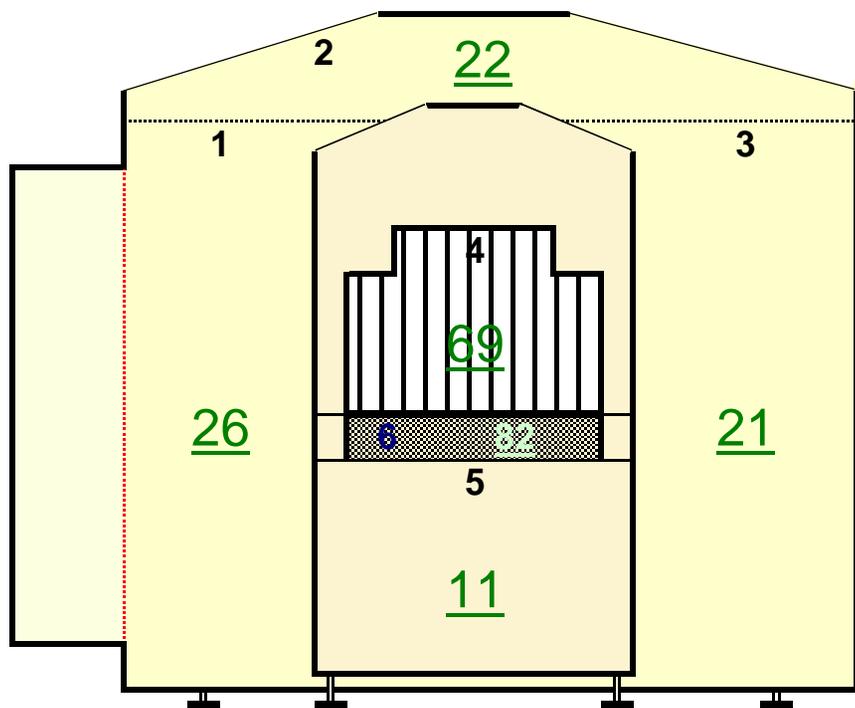
SYSTEM - SIDE PROFILE VIEW (AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Exit Conveyor Panel	12	
2	Exit Conveyor Panel	14	
3	Exit Conveyor Panel	36	
4	Exit Conveyor Panel	32	
5	Exit Conveyor / Scanner Panel	21	
6	Upper Scanner Pane	10	
7	Middle Scanner Panel	17	
8	Lower Scanner Panel	14	
9	Upper Scanner Panel	23	
10	Middle Scanner Panel	22	
11	Lower Scanner Panel	12	
12	Entrance Conveyor / Scanner Panel	18	
13	Entrance Conveyor Panel	18	
14	Entrance Conveyor Panel	19	

GOOD

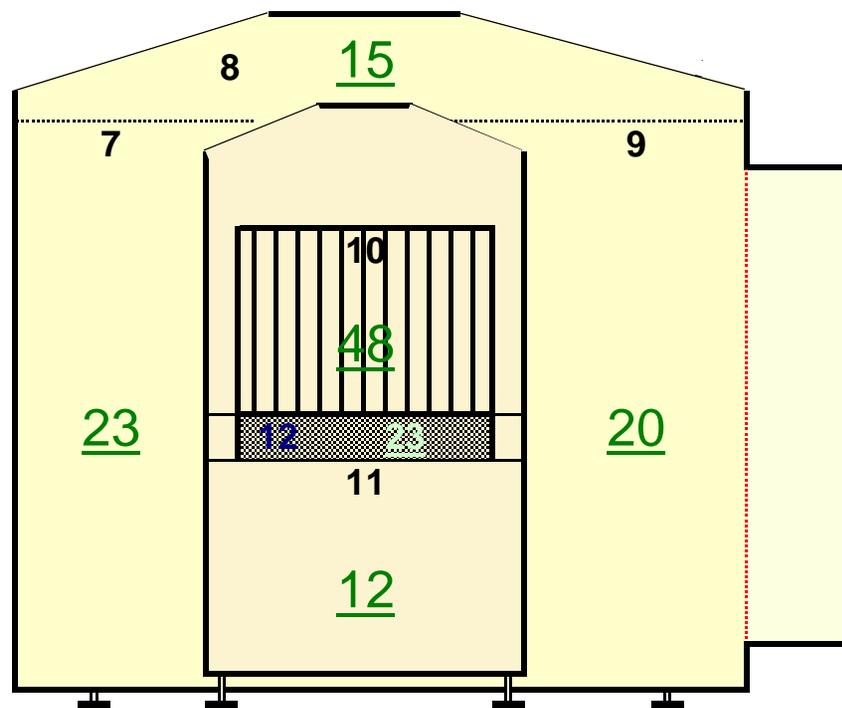
Highest Reading	36
Average Reading	19
Low Reading	10

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		$\mu\text{R}/\text{Hr}$	
1	Scanner Panel	26	
2	Scanner Top Panel	22	
3	Scanner Panel	21	
4	Belt Entrance	69	
5	Entrance Lower Panel	11	
6	Belt Lower Facia Cover Entrance	82	
7	Scanner Panel	23	
8	Scanner Top Panel	15	
9	Scanner Panel	20	
10	Belt Exit	48	
11	Exit Lower Panel	12	
12	Belt Lower Facia Cover Exit	23	

GOOD

Highest Reading	82
Average Reading	31
Low Reading	11