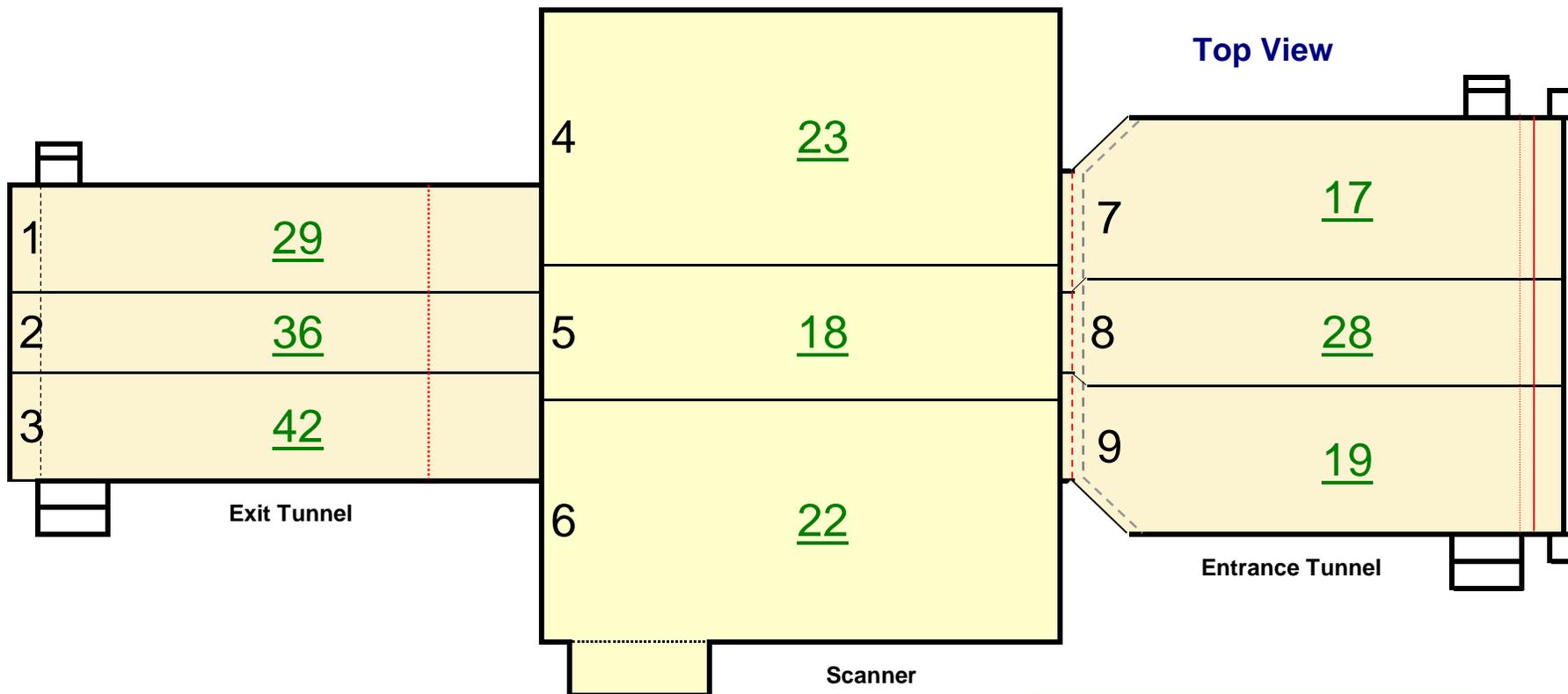


RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

Airport: FLL	Scanner Location: Cargo (FLL)	Case#: FLL360032
Personnel Performing Radiation Survey: XXXXXXXXXX		Date Survey Performed: 3/12/2011
Scanner Serial Number: 6236	Entrance Tunnel Serial Number: 2283A	Exit Tunnel Serial Number: 2192B
High Reading: 39 Average Reading: 22.23 Min. Reading: 15	High Reading: 125 Average Reading: 35.57 Min. Reading: 11	High Reading: 105 Average Reading: 39.60 Min. Reading: 9
Good	Good	Good
Radiation Meter: Type Meter: 451P	Meter Serial Number: 46	Calibration Due Date: March 10, 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: 9.8 mA
FLL-CRS-12MAR2011-6236	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 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.

RADIATION SURVEY WORKSHEET



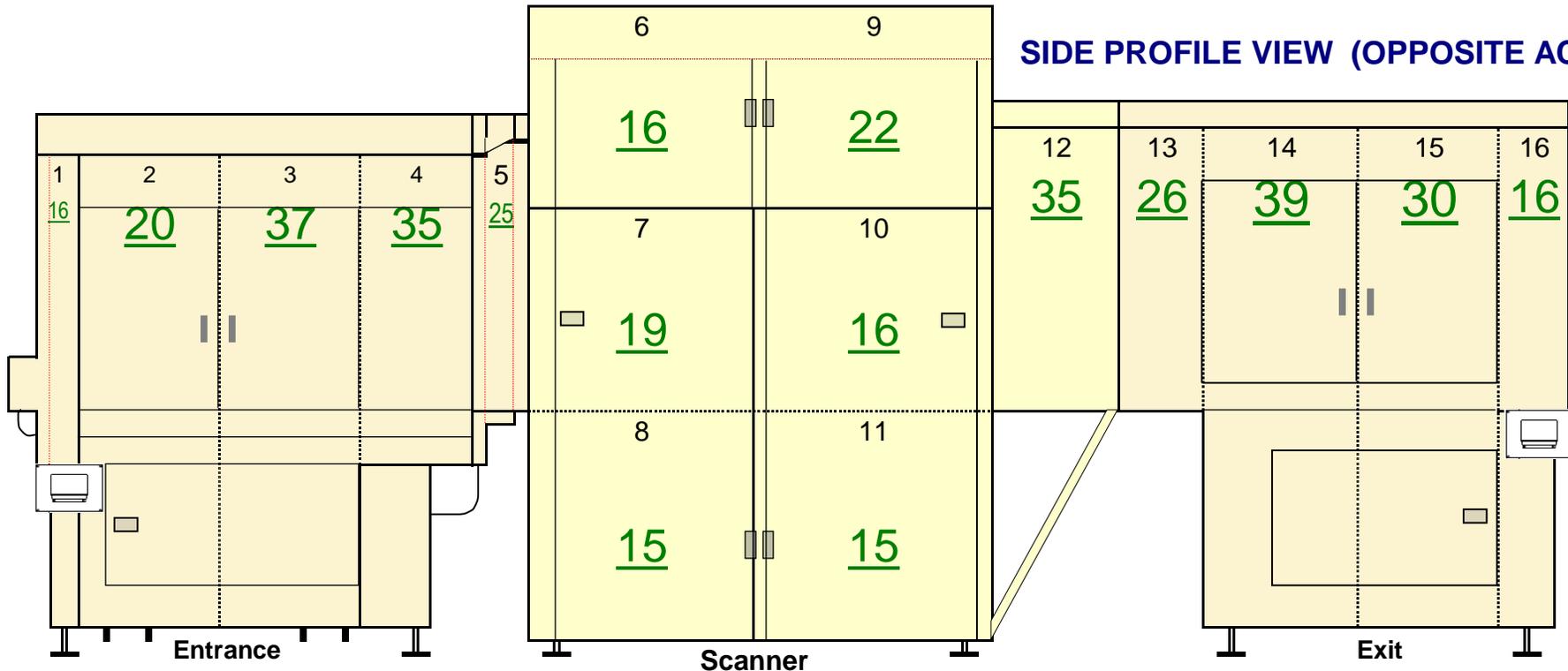
GOOD

Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Exit Conveyor Top Panel	29	
2	Exit Conveyor Top Panel	36	
3	Exit Conveyor Top Panel	42	
4	Scanner Conveyor Top Panel	23	
5	Scanner Conveyor Top Panel	18	
6	Scanner Conveyor Top Panel	22	
7	Entrance Conveyor Top Panel	17	
8	Entrance Conveyor Top Panel	28	
9	Entrance Conveyor Top Panel	19	

Highest Reading	42
Average Reading	26
Lowest Reading	17

RADIATION SURVEY WORKSHEET

SIDE PROFILE VIEW (OPPOSITE AC)

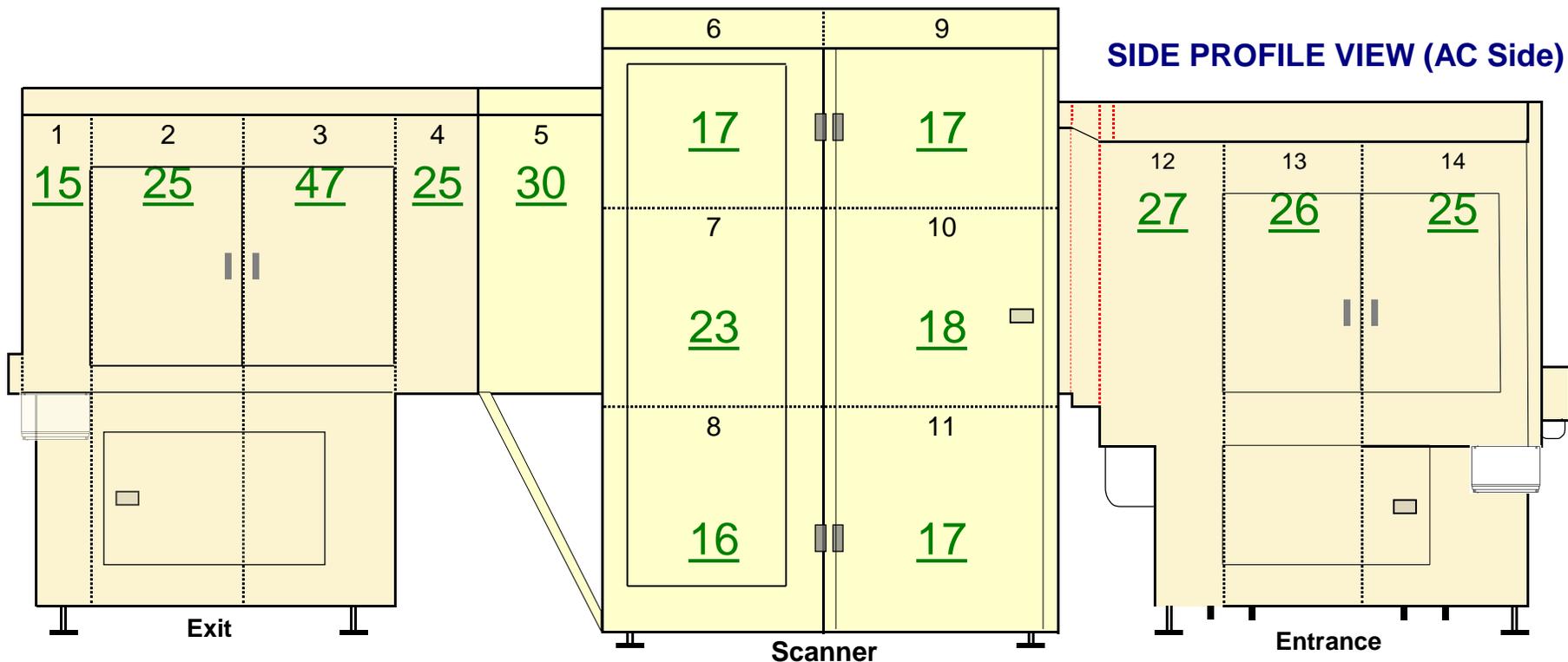


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Entrance Conveyor Panel	16	
2	Entrance Conveyor Panel	20	
3	Entrance Conveyor Panel	37	
4	Entrance Conveyor Panel	35	
5	Entrance Conveyor / Scanner Panel	25	
6	Upper Scanner Panel	16	
7	Middle Scanner Panel	19	
8	Lower Scanner Panel	15	
9	Upper Scanner Panel	22	
10	Middle Scanner Panel	16	
11	Lower Scanner Panel	15	
12	Exit Conveyor / Scanner Panel	35	
13	Exit Conveyor Panel	26	
14	Exit Conveyor Panel	39	
15	Exit Conveyor Panel	30	
16	Exit Conveyor Panel	16	

GOOD

Highest Reading	39
Average Reading	24
Low Reading	15

RADIATION SURVEY WORKSHEET



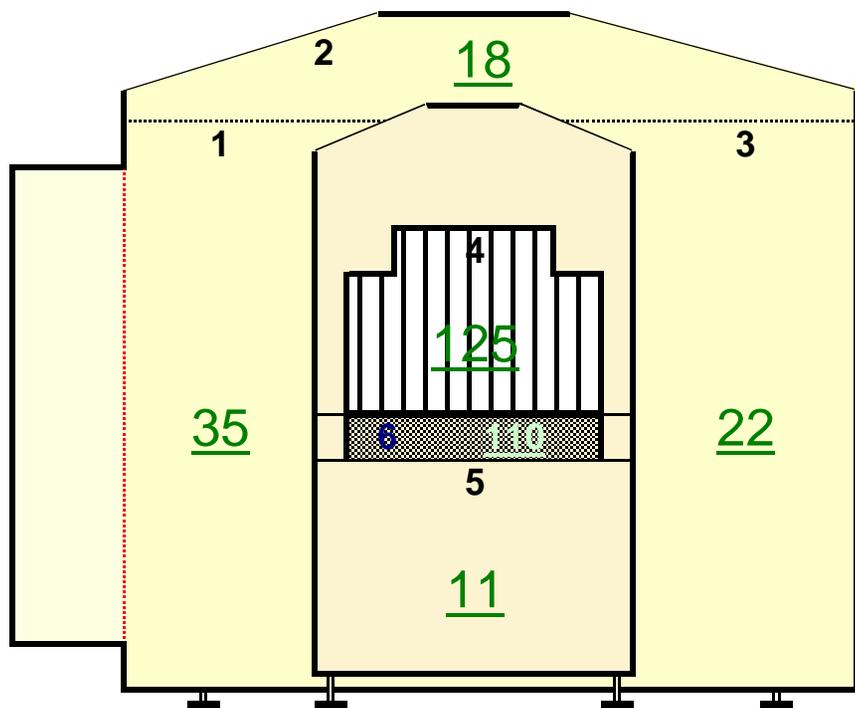
SYSTEM - SIDE PROFILE VIEW (AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Exit Conveyor Panel	15	
2	Exit Conveyor Panel	25	
3	Exit Conveyor Panel	47	
4	Exit Conveyor Panel	25	
5	Exit Conveyor / Scanner Panel	30	
6	Upper Scanner Pane	17	
7	Middle Scanner Panel	23	
8	Lower Scanner Panel	16	
9	Upper Scanner Panel	17	
10	Middle Scanner Panel	18	
11	Lower Scanner Panel	17	
12	Entrance Conveyor / Scanner Panel	27	
13	Entrance Conveyor Panel	26	
14	Entrance Conveyor Panel	25	

GOOD

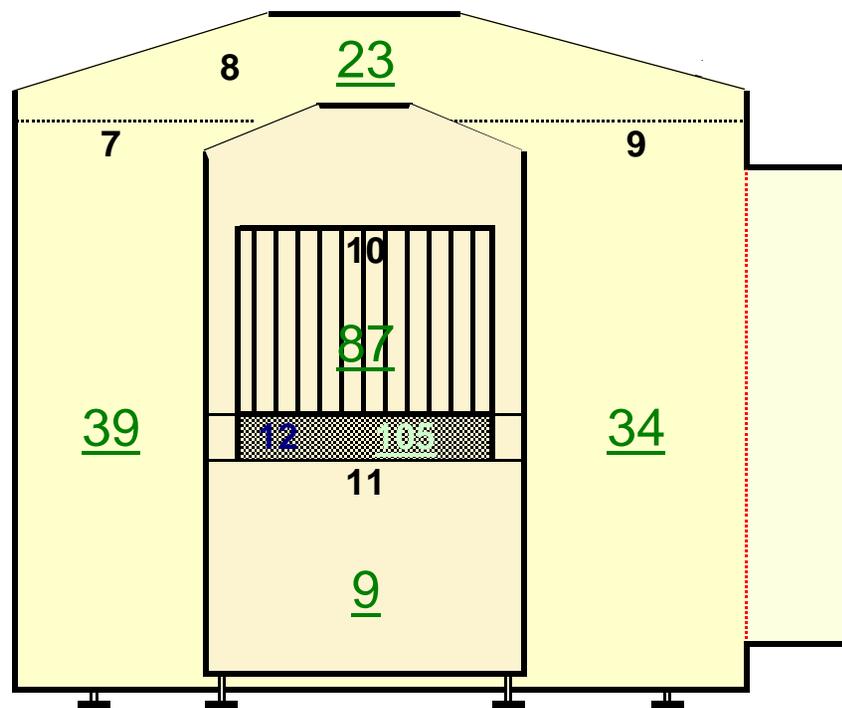
Highest Reading	47
Average Reading	23
Low Reading	15

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	35	
2	Scanner Top Panel	18	
3	Scanner Panel	22	
4	Belt Entrance	125	
5	Entrance Lower Panel	11	
6	Belt Lower Fascia Cover Entrance	110	
7	Scanner Panel	39	
8	Scanner Top Panel	23	
9	Scanner Panel	34	
10	Belt Exit	87	
11	Exit Lower Panel	9	
12	Belt Lower Fascia Cover Exit	105	

GOOD

Highest Reading	125
Average Reading	52
Low Reading	9