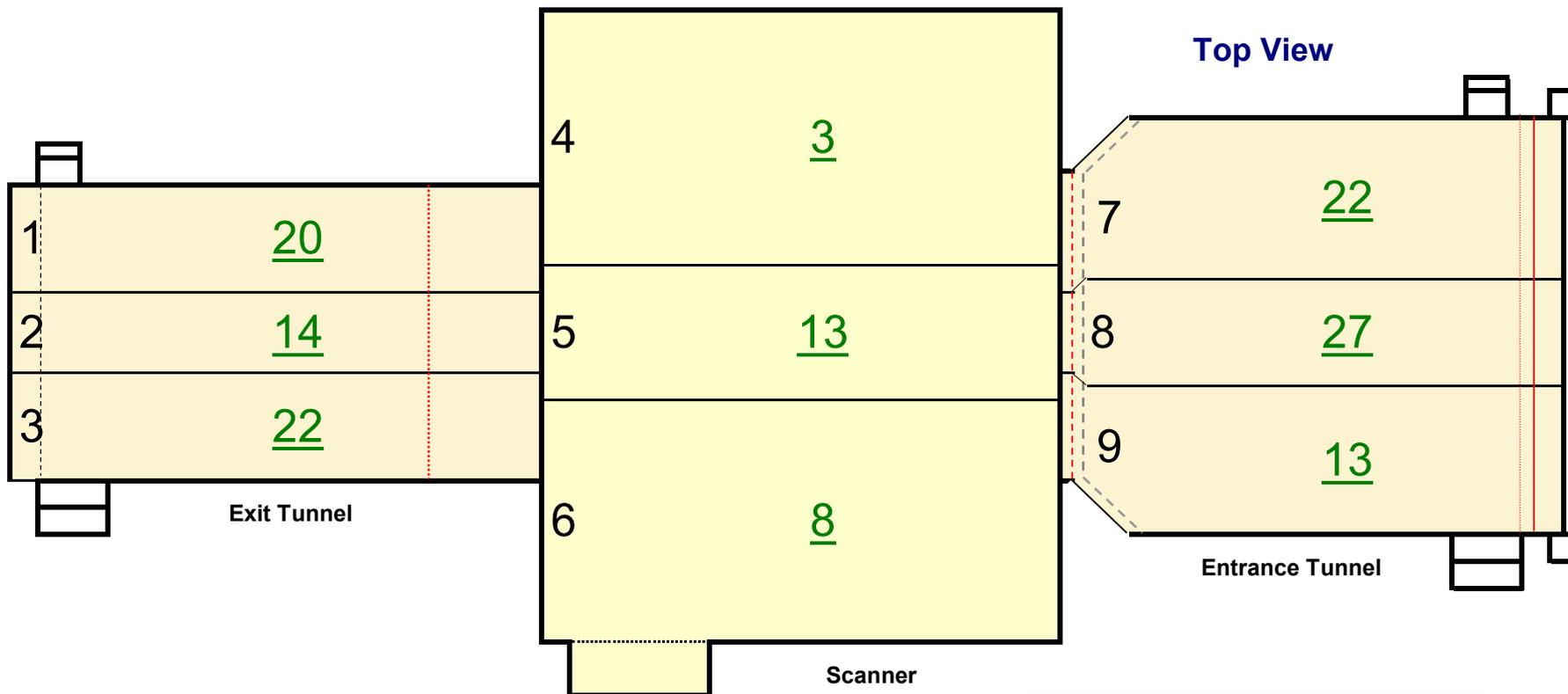


RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

Airport: FLL	Scanner Location: T3	Case#: FLL359630
Personnel Performing Radiation Survey: XXXXXXXXXX		Date Survey Performed: 3/24/2011
Scanner Serial Number: 6402	Entrance Tunnel Serial Number: 2241A	Exit Tunnel Serial Number: 5268B
High Reading: 74 Average Reading: 14.54 Min. Reading: 2	High Reading: 58 Average Reading: 20.58 Min. Reading: 6	High Reading: 64 Average Reading: 21.67 Min. Reading: 2
Good	Good	Good
Radiation Meter: Type Meter: 451p-ygg	Meter Serial Number: 59	Calibration Due Date: December 23, 2011
N O T E S		
Complete Radiation Survey (CRS)	Record Voltage and Bean Current here:	
Rename this Document before starting the Survey to:	Voltage: 165 KV	Beam Current: 10.0 mA
FLL-CRS-24MAR2011-6402	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 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



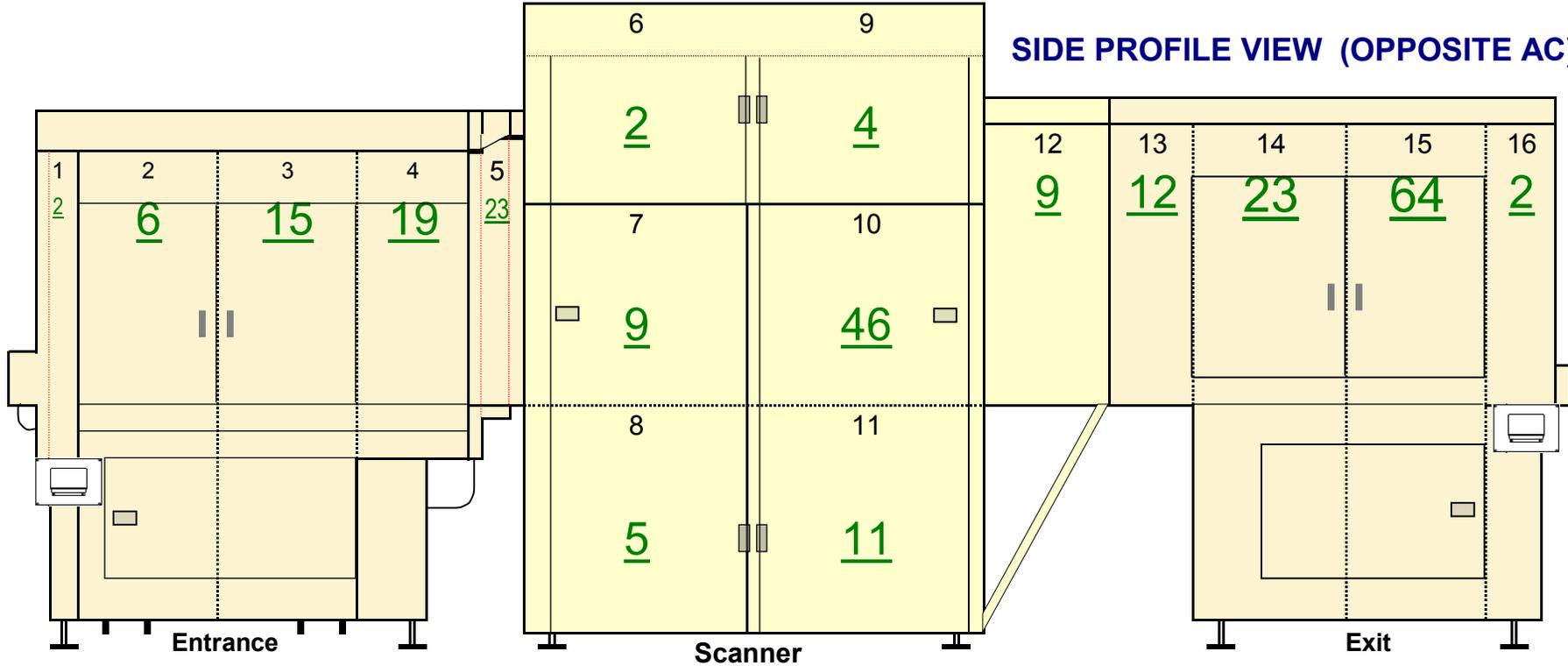
GOOD

Highest Reading	27
Average Reading	16
Lowest Reading	3

Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel	μR/Hr		
1	Exit Conveyor Top Panel	20	
2	Exit Conveyor Top Panel	14	
3	Exit Conveyor Top Panel	22	
4	Scanner Conveyor Top Panel	3	
5	Scanner Conveyor Top Panel	13	
6	Scanner Conveyor Top Panel	8	
7	Entrance Conveyor Top Panel	22	
8	Entrance Conveyor Top Panel	27	
9	Entrance Conveyor Top Panel	13	

RADIATION SURVEY WORKSHEET

SIDE PROFILE VIEW (OPPOSITE AC)

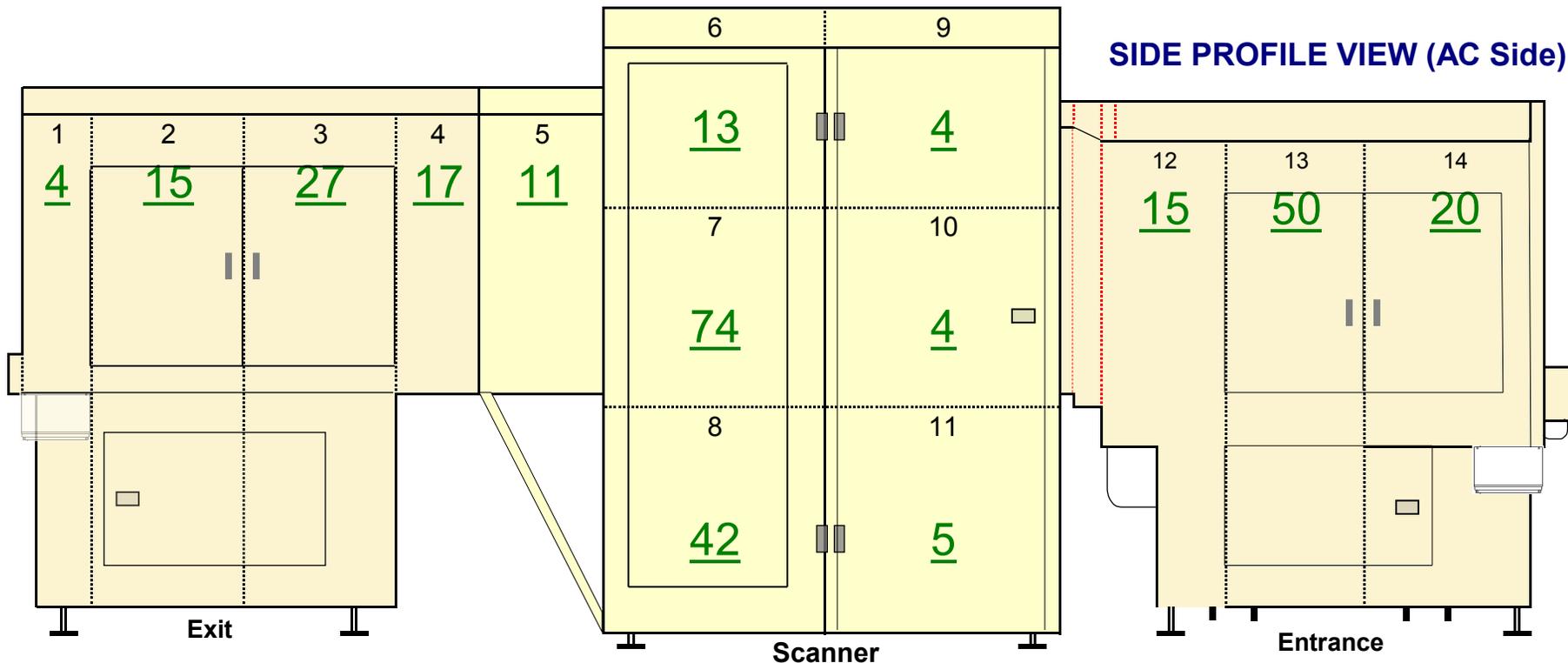


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Entrance Conveyor Panel	2	
2	Entrance Conveyor Panel	6	
3	Entrance Conveyor Panel	15	
4	Entrance Conveyor Panel	19	
5	Entrance Conveyor / Scanner Panel	23	
6	Upper Scanner Panel	2	
7	Middle Scanner Panel	9	
8	Lower Scanner Panel	5	
9	Upper Scanner Panel	4	
10	Middle Scanner Panel	46	
11	Lower Scanner Panel	11	
12	Exit Conveyor / Scanner Panel	9	
13	Exit Conveyor Panel	12	
14	Exit Conveyor Panel	23	
15	Exit Conveyor Panel	64	
16	Exit Conveyor Panel	2	

GOOD

Highest Reading	64
Average Reading	16
Low Reading	2

RADIATION SURVEY WORKSHEET



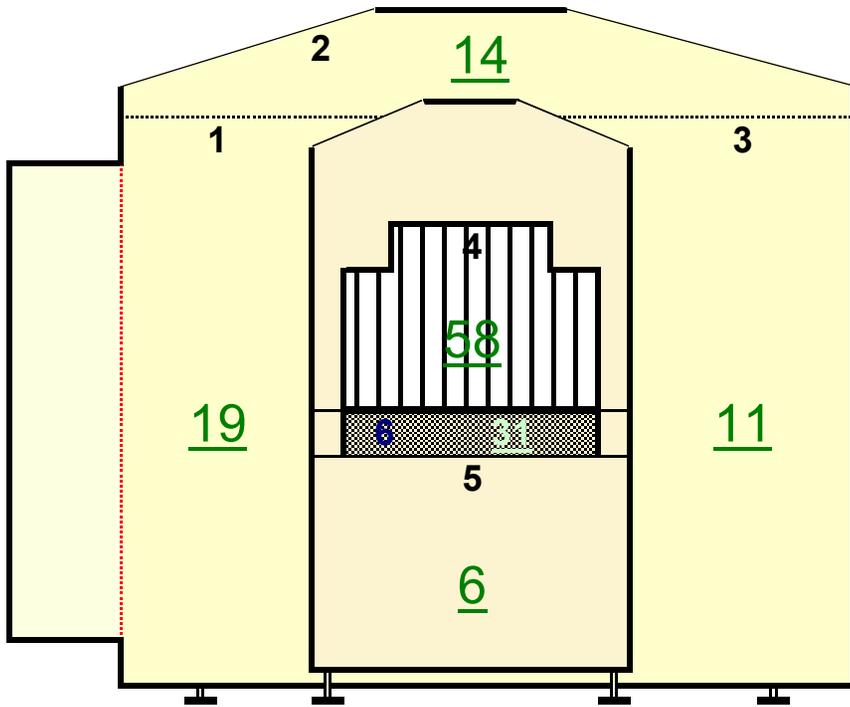
SYSTEM - SIDE PROFILE VIEW (AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		$\mu\text{R}/\text{Hr}$	
1	Exit Conveyor Panel	4	
2	Exit Conveyor Panel	15	
3	Exit Conveyor Panel	27	
4	Exit Conveyor Panel	17	
5	Exit Conveyor / Scanner Panel	11	
6	Upper Scanner Pane	13	
7	Middle Scanner Panel	74	
8	Lower Scanner Panel	42	
9	Upper Scanner Panel	4	
10	Middle Scanner Panel	4	
11	Lower Scanner Panel	5	
12	Entrance Conveyor / Scanner Panel	15	
13	Entrance Conveyor Panel	50	
14	Entrance Conveyor Panel	20	

GOOD

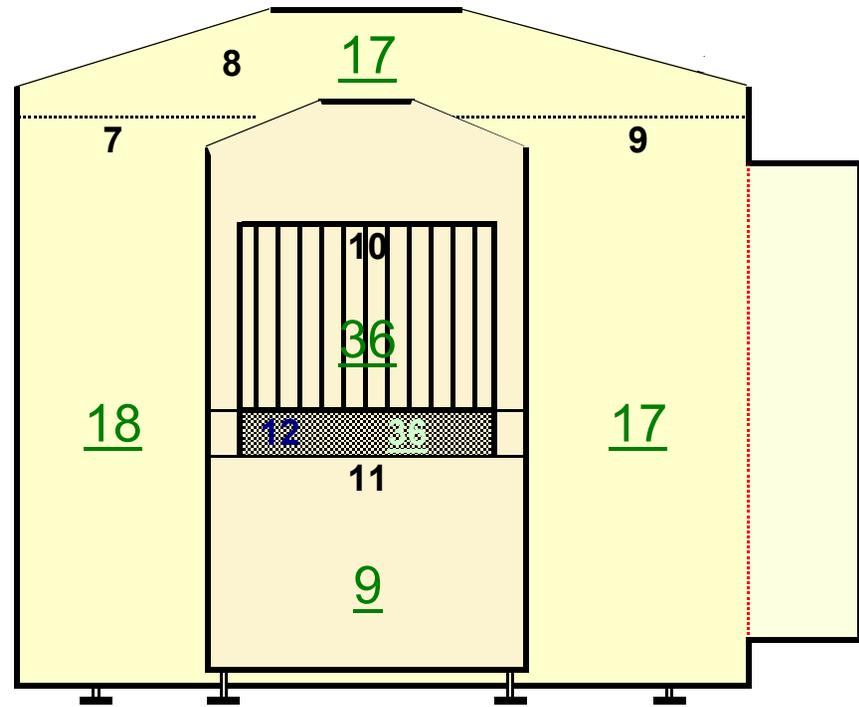
Highest Reading	74
Average Reading	22
Low Reading	4

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	19	
2	Scanner Top Panel	14	
3	Scanner Panel	11	
4	Belt Entrance	58	
5	Entrance Lower Panel	6	
6	Belt Lower Facia Cover Entrance	31	
7	Scanner Panel	18	
8	Scanner Top Panel	17	
9	Scanner Panel	17	
10	Belt Exit	36	
11	Exit Lower Panel	9	
12	Belt Lower Facia Cover Exit	36	

GOOD

Highest Reading	58
Average Reading	23
Low Reading	6