

RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

Airport: **FLL** Scanner Location: **Cargo (FLL)** Case#: **FLL_329951**

Personnel Performing Radiation Survey: **6236** Entrance Tunnel Serial Number: **2283A** Date Survey Performed: **10/29/2010**

Scanner Serial Number: **6236** Exit Tunnel Serial Number: **2192B**

High Reading:	Average Reading:	Min. Reading:	High Reading:	Average Reading:	Min. Reading:	High Reading:	Average Reading:	Min. Reading:
40	21.84	14	198	44.38	11	101	38.71	9

Good

Good

Good

Radiation Meter: **Type Meter: 451P Meter Serial Number: 12 Calibration Due Date: March 3, 2011**

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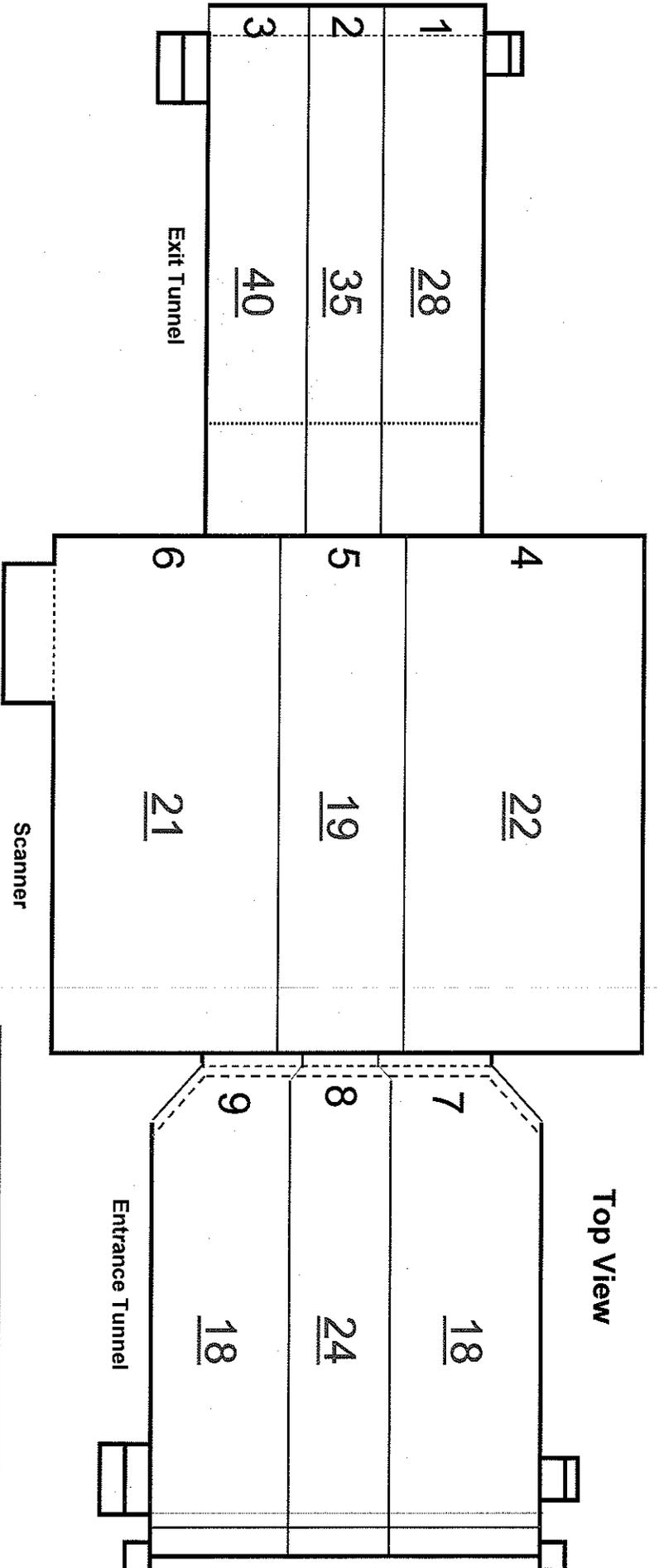
(Click Here and SELECT ONE)

Record Voltage and Bean Current here:

Voltage: **164865** KV Beam Current: **9.8** mA
 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 uR/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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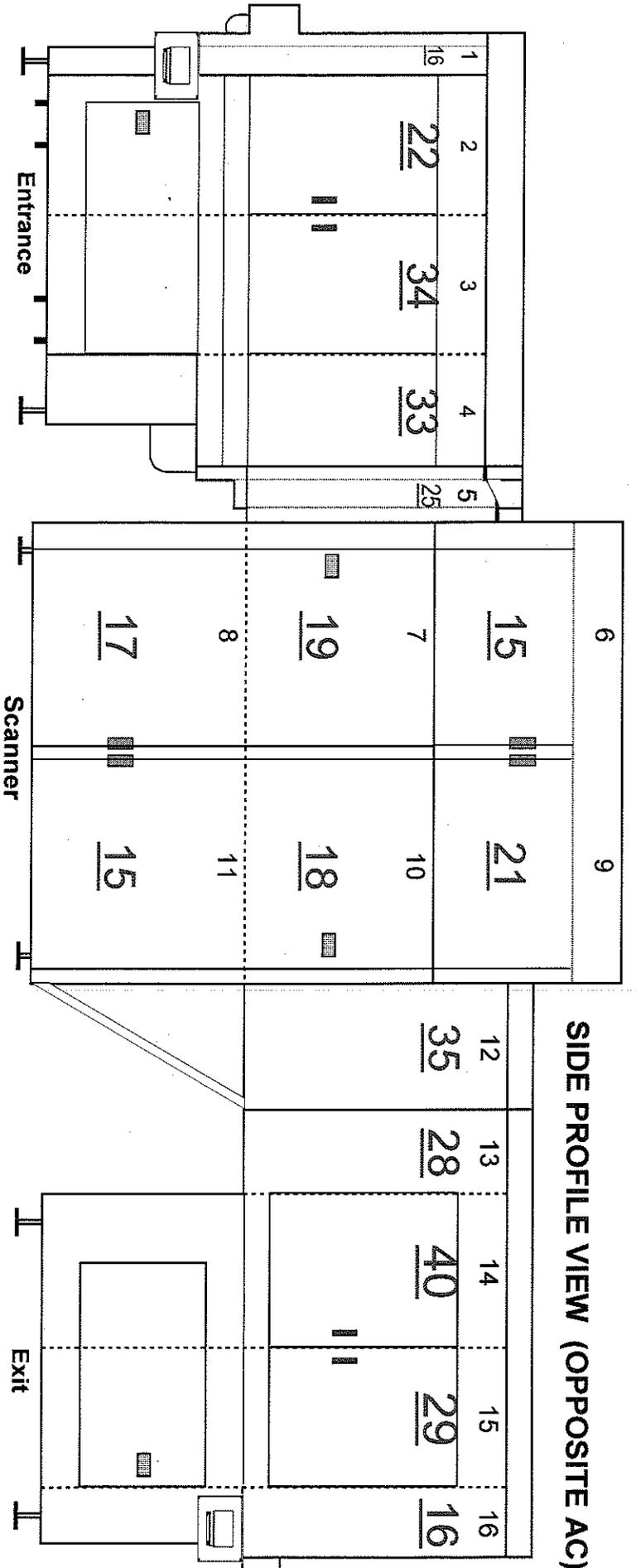


Top View		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	µR/Hr	No PROBLEM
1 Exit Conveyor Top Panel	28	
2 Exit Conveyor Top Panel	35	
3 Exit Conveyor Top Panel	40	
4 Scanner Conveyor Top Panel	22	
5 Scanner Conveyor Top Panel	19	
6 Scanner Conveyor Top Panel	21	
7 Entrance Conveyor Top Panel	18	
8 Entrance Conveyor Top Panel	24	
9 Entrance Conveyor Top Panel	18	

GOOD

Highest Reading	40
Average Reading	25
Lowest Reading	18

RADIATION SURVEY WORKSHEET

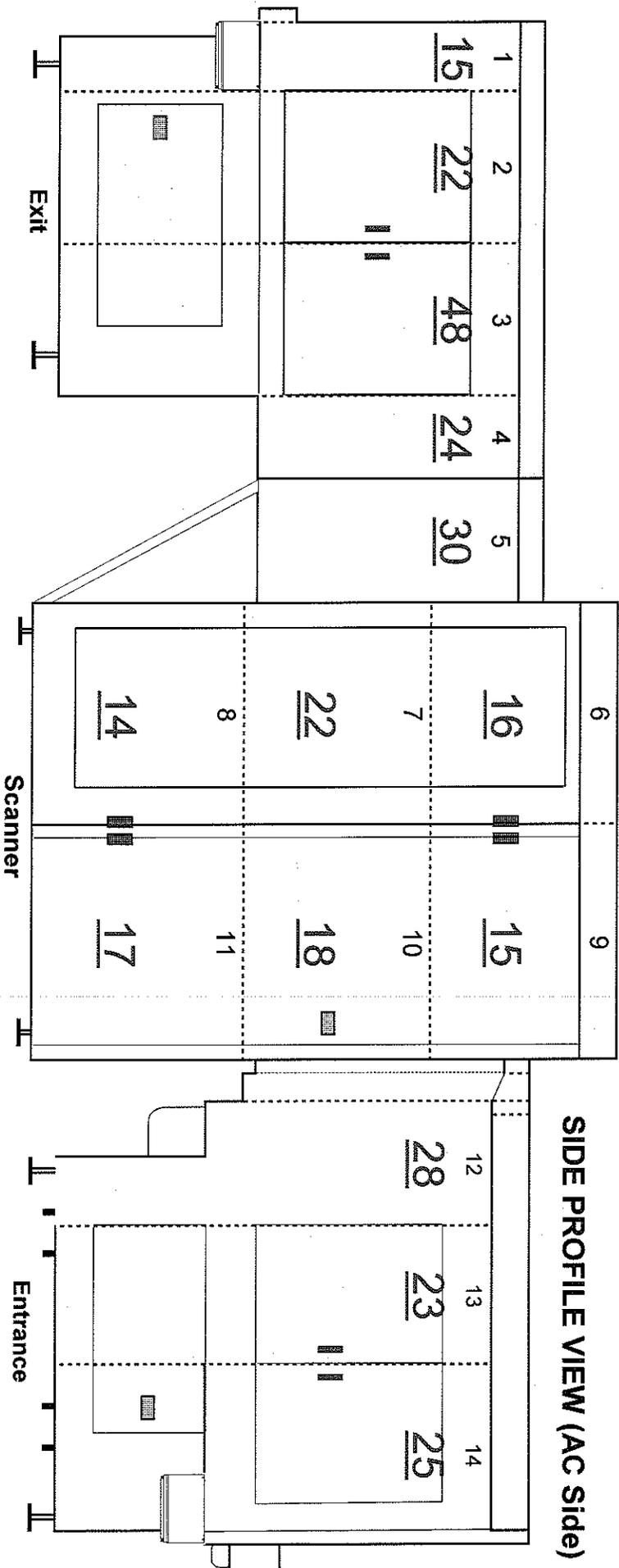


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	µR/hr	No PROBLEM
1 Entrance Conveyor Panel	16	
2 Entrance Conveyor Panel	22	
3 Entrance Conveyor Panel	34	
4 Entrance Conveyor Panel	33	
5 Entrance Conveyor / Scanner Panel	25	
6 Upper Scanner Panel	15	
7 Middle Scanner Panel	19	
8 Lower Scanner Panel	17	
9 Upper Scanner Panel	21	
10 Middle Scanner Panel	18	
11 Lower Scanner Panel	15	
12 Exit Conveyor / Scanner Panel	35	
13 Exit Conveyor Panel	28	
14 Exit Conveyor Panel	40	
15 Exit Conveyor Panel	29	
16 Exit Conveyor Panel	16	

GOOD

Highest Reading	40
Average Reading	24
Low Reading	15

RADIATION SURVEY WORKSHEET



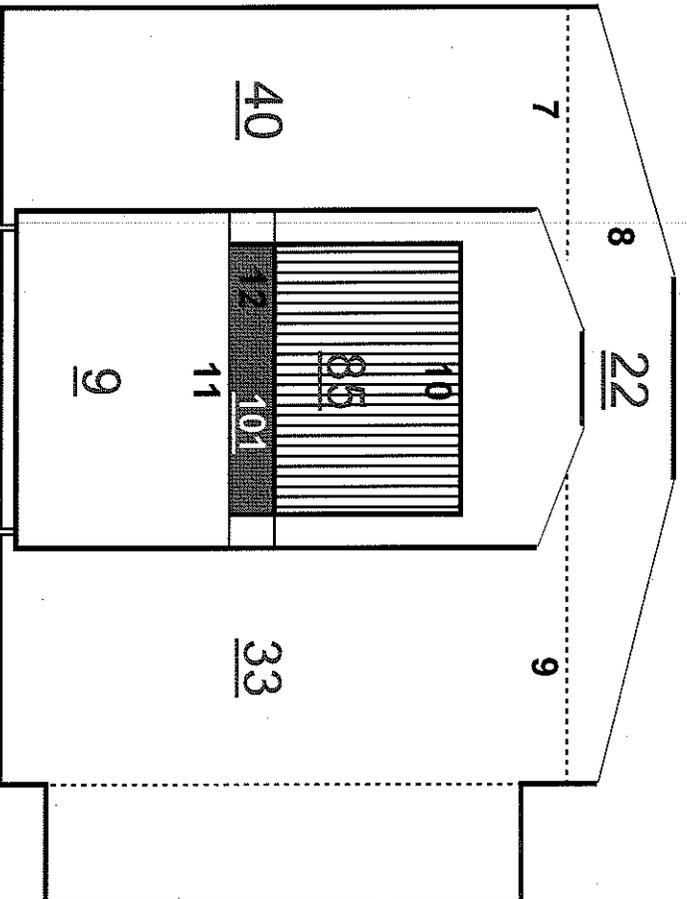
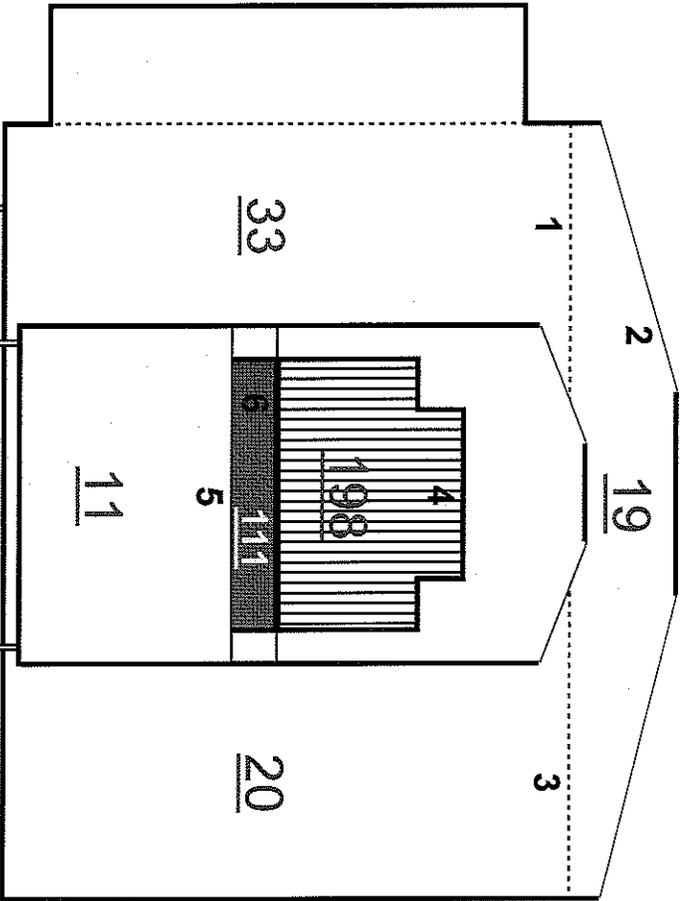
SYSTEM - SIDE PROFILE VIEW (AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	μR/hr	No PROBLEM
1 Exit Conveyor Panel	15	
2 Exit Conveyor Panel	22	
3 Exit Conveyor Panel	48	
4 Exit Conveyor Panel	24	
5 Exit Conveyor / Scanner Panel	30	
6 Upper Scanner Pane	16	
7 Middle Scanner Panel	22	
8 Lower Scanner Panel	14	
9 Upper Scanner Panel	15	
10 Middle Scanner Panel	18	
11 Lower Scanner Panel	17	
12 Entrance Conveyor / Scanner Panel	28	
13 Entrance Conveyor Panel	23	
14 Entrance Conveyor Panel	25	

GOOD

Highest Reading	48
Average Reading	23
Low Reading	14

RADIATION SURVEY WORKSHEET

SYSTEM - FACES (End Views)



eXaminer entrance

eXaminer exit

SYSTEM - FACES (End Views)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	µR/Hr	No PROBLEM
1 Scanner Panel	33	
2 Scanner Top Panel	19	
3 Scanner Panel	20	
4 Belt Entrance	198	
5 Entrance Lower Panel	11	
6 Belt Lower Facia Cover Entrance	111	
7 Scanner Panel	40	
8 Scanner Top Panel	22	
9 Scanner Panel	33	
10 Belt Exit	85	
11 Exit Lower Panel	9	
12 Belt Lower Facia Cover Exit	101	

GOOD

Highest Reading	198
Average Reading	57
Low Reading	9