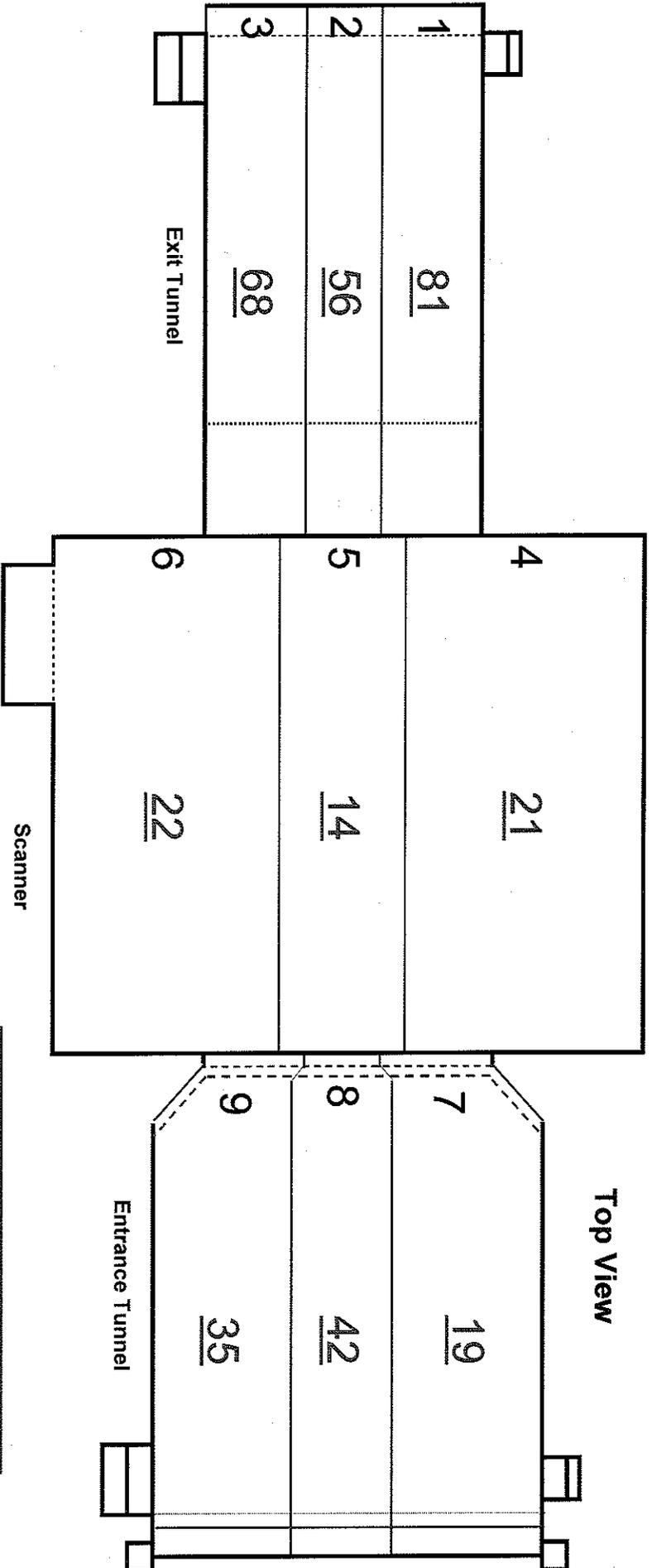


RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

Airport:	Philadelphia International	Scanner Location:	Southwest Baggage	Case#:	PHL-
Personnel Performing Radiation Survey:		Scanner Serial Number:	6313	Entrance Tunnel Serial Number:	n/a
High Reading:	81	Average Reading:	22.39	High Reading:	300
		Min. Reading:	7	Average Reading:	61.77
				Min. Reading:	11
				High Reading:	199
				Average Reading:	65.58
				Min. Reading:	4
Good					
Radiation Meter:	Type Meter:	451P	Meter Serial Number:	6647	Calibration Due Date:
					April 20, 2011
Good					
Good					
N O T E S					
Complete Radiation Survey (CRS)			Record Voltage and Bean Current here:		
Rename this Document before starting the Survey to:			Voltage:	165527	KV
PHL-CRS-30NOV2010-6313			Maximum Safe Readings	Scanner	350
			Tunnels	350	Curtains
					350
Expected results					
Step	Procedure				
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 stickers and place on the eXaminer in accordance with Examiner Technical Bulletin ex253.	Readings shall not exceed 350 uR/hr in any box.			

RADIATION SURVEY WORKSHEET

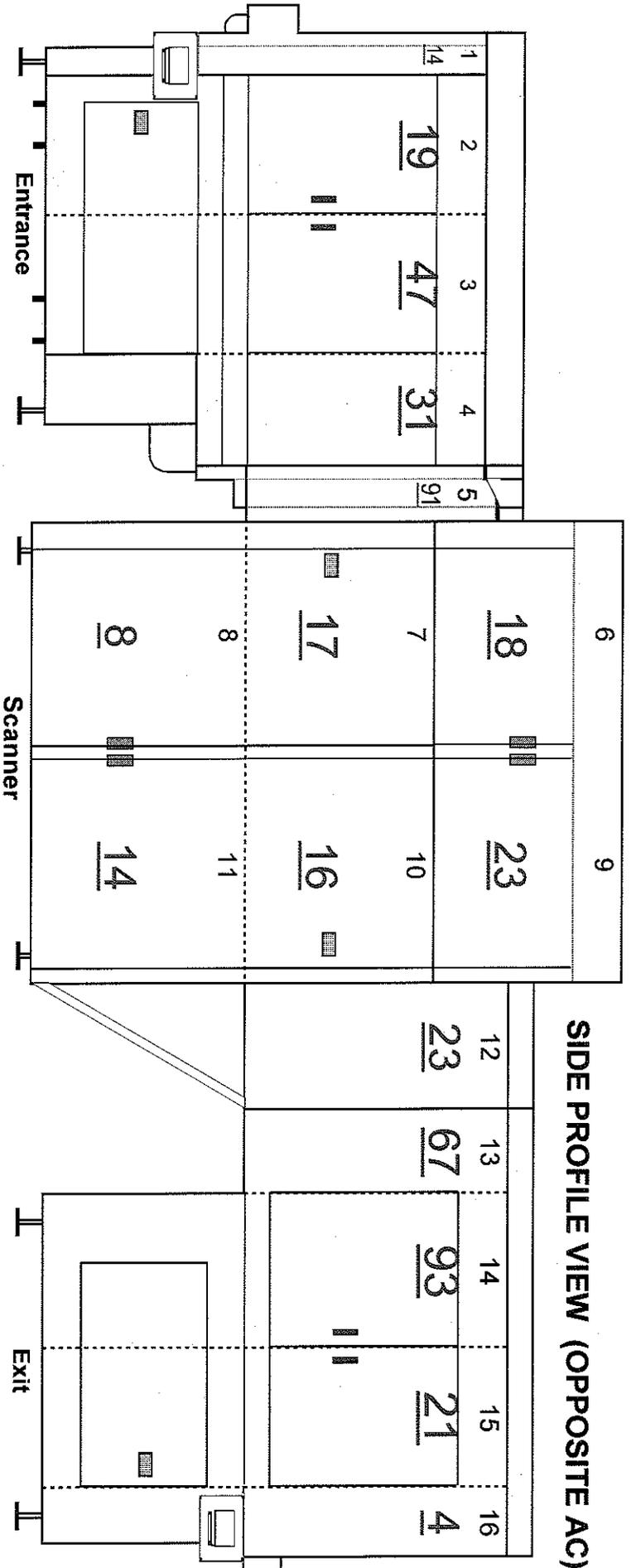


Top View		No PROBLEM
Scattered Radiation Measurement Points Worksheet		μR/Hr
Record highest reading per panel		No PROBLEM
1	Exit Conveyor Top Panel	81
2	Exit Conveyor Top Panel	56
3	Exit Conveyor Top Panel	68
4	Scanner Conveyor Top Panel	21
5	Scanner Conveyor Top Panel	14
6	Scanner Conveyor Top Panel	22
7	Entrance Conveyor Top Panel	19
8	Entrance Conveyor Top Panel	42
9	Entrance Conveyor Top Panel	35

GOOD

Highest Reading	81
Average Reading	40
Lowest Reading	14

RADIATION SURVEY WORKSHEET

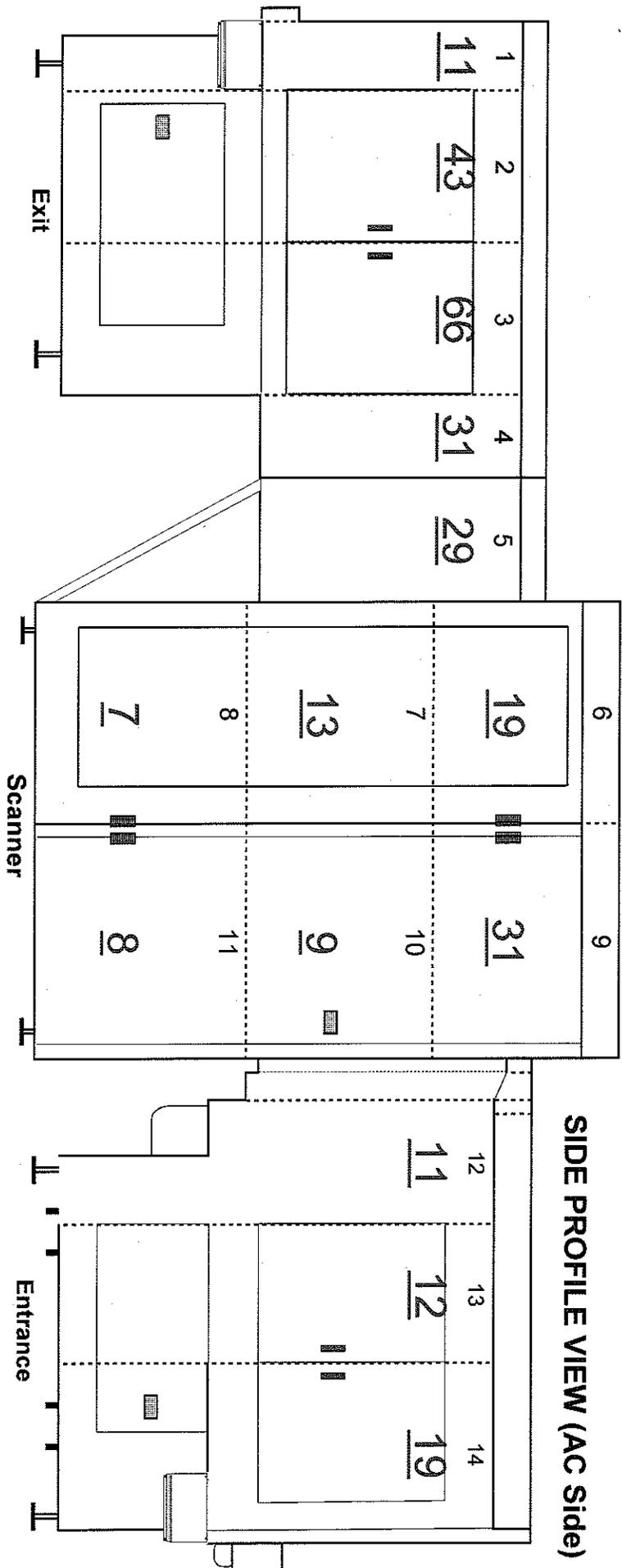


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	µR/hr	No PROBLEM
1 Entrance Conveyor Panel	14	
2 Entrance Conveyor Panel	19	
3 Entrance Conveyor Panel	47	
4 Entrance Conveyor Panel	31	
5 Entrance Conveyor / Scanner Panel	91	
6 Upper Scanner Panel	18	
7 Middle Scanner Panel	17	
8 Lower Scanner Panel	8	
9 Upper Scanner Panel	23	
10 Middle Scanner Panel	16	
11 Lower Scanner Panel	14	
12 Exit Conveyor / Scanner Panel	23	
13 Exit Conveyor Panel	67	
14 Exit Conveyor Panel	93	
15 Exit Conveyor Panel	21	
16 Exit Conveyor Panel	4	

GOOD

Highest Reading	93
Average Reading	32
Low Reading	4

RADIATION SURVEY WORKSHEET



SIDE PROFILE VIEW (AC Side)

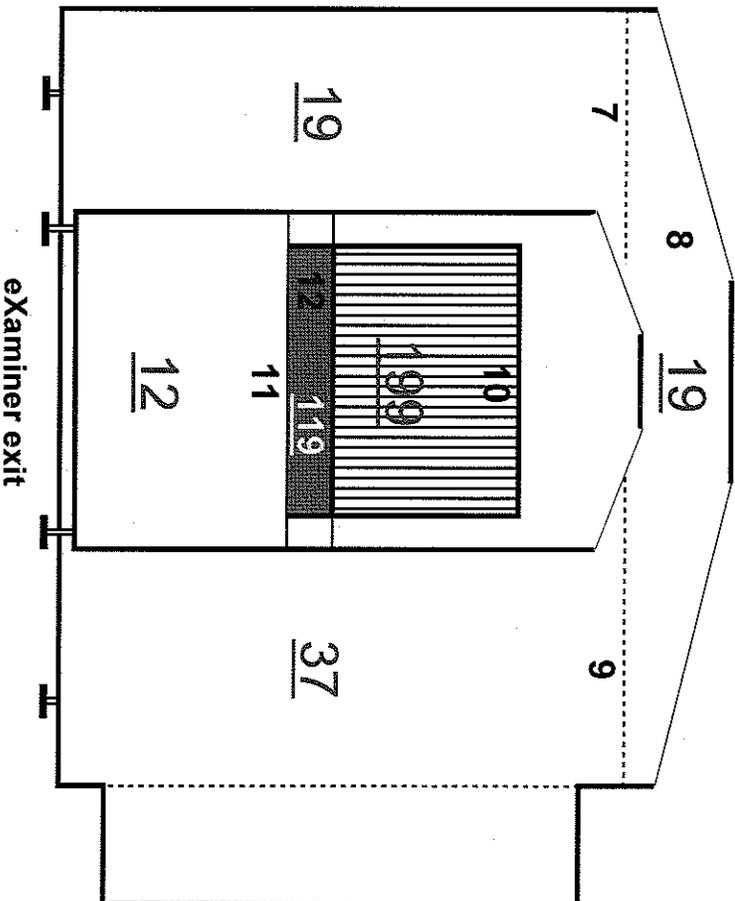
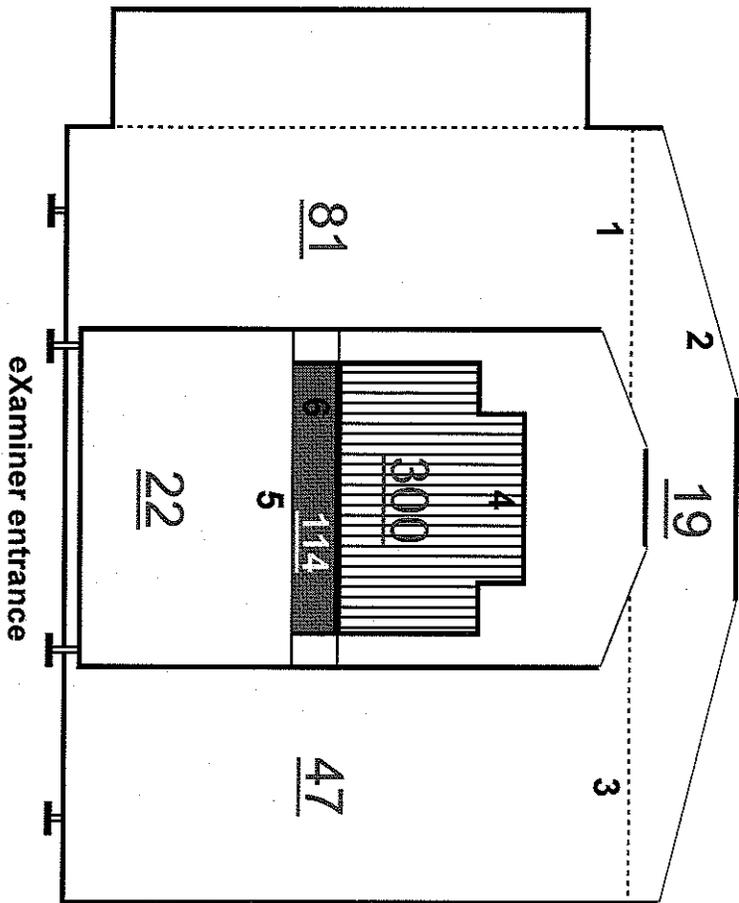
SYSTEM - SIDE PROFILE VIEW (AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	µR/Hr	No PROBLEM
1	Exit Conveyor Panel	11
2	Exit Conveyor Panel	43
3	Exit Conveyor Panel	66
4	Exit Conveyor Panel	31
5	Exit Conveyor / Scanner Panel	29
6	Upper Scanner Pane	19
7	Middle Scanner Panel	13
8	Lower Scanner Panel	7
9	Upper Scanner Panel	31
10	Middle Scanner Panel	9
11	Lower Scanner Panel	8
12	Entrance Conveyor / Scanner Panel	11
13	Entrance Conveyor Panel	12
14	Entrance Conveyor Panel	19

GOOD

Highest Reading	66
Average Reading	22
Low Reading	7

RADIATION SURVEY WORKSHEET

SYSTEM - FACES (End Views)



SYSTEM - FACES (End Views)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	µR/Hr	No PROBLEM
1 Scanner Panel	81	
2 Scanner Top Panel	19	
3 Scanner Panel	47	
4 Belt Entrance	300	
5 Entrance Lower Panel	22	
6 Belt Lower Facia Cover Entrance	114	
7 Scanner Panel	19	
8 Scanner Top Panel	19	
9 Scanner Panel	37	
10 Belt Exit	199	
11 Exit Lower Panel	12	
12 Belt Lower Facia Cover Exit	119	

GOOD

Highest Reading	300
Average Reading	82
Low Reading	12