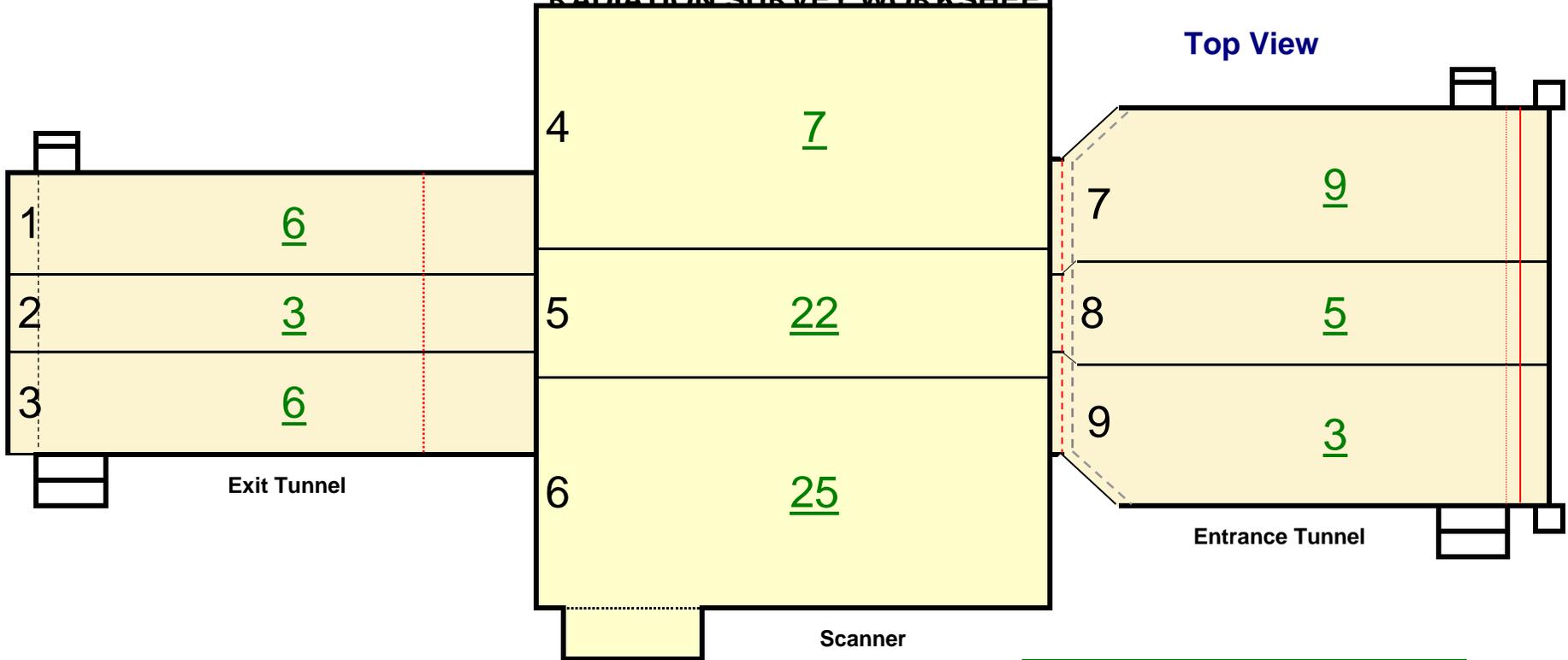


RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

Airport: MCO	Scanner Location: Bag Room D	Case#: MCO357284
Personnel Performing Radiation Survey: XXXXXXXXXX		Date Survey Performed: 3/9/2011
Scanner Serial Number: 6554	Entrance Tunnel Serial Number: 5445A	Exit Tunnel Serial Number: 5445B
High Reading: 25	Average Reading: 10.11	Min. Reading: 1
High Reading: 45	Average Reading: 13.58	Min. Reading: 1
High Reading: 52	Average Reading: 14.54	Min. Reading: 3
Good	Good	Good
Radiation Meter: Type Meter: 451P	Meter Serial Number: 243	Calibration Due Date: December 20, 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: 164063 KV	Beam Current: 9.9 mA
MCO-CRS-9MAR2011-6554	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 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



GOOD

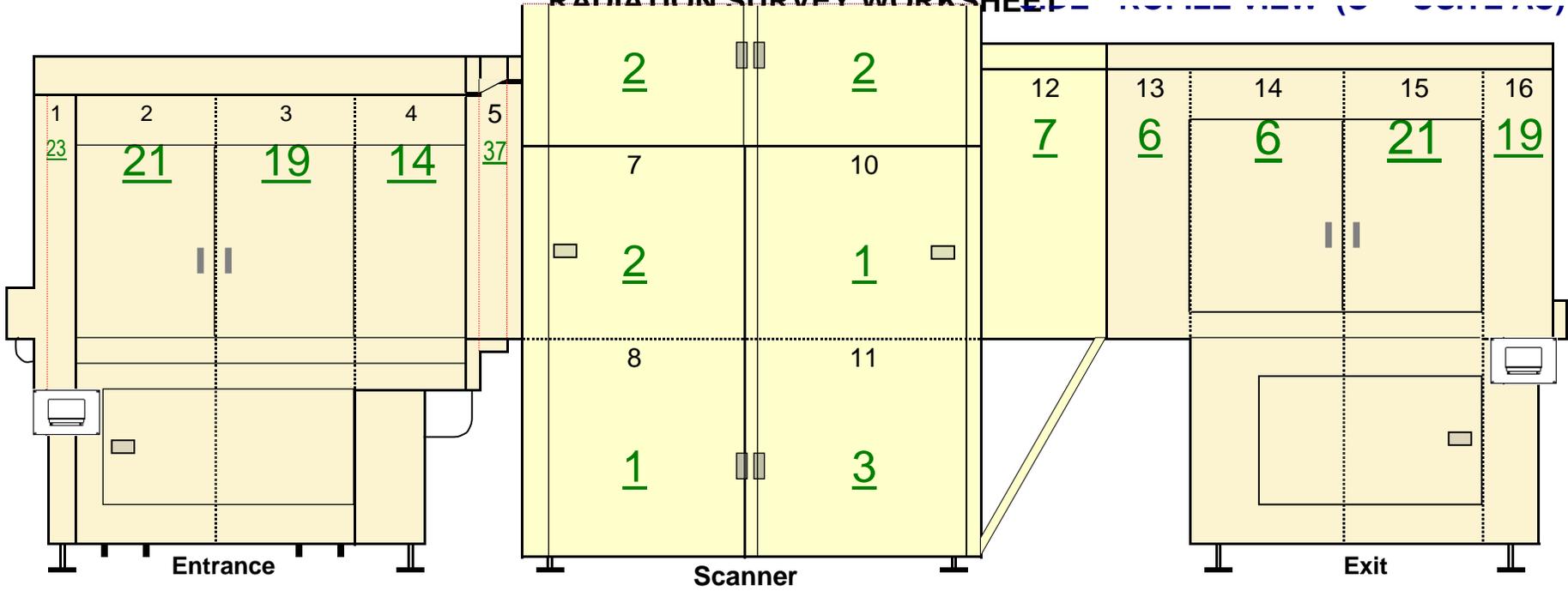
Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Exit Conveyor Top Panel	6	
2	Exit Conveyor Top Panel	3	
3	Exit Conveyor Top Panel	6	
4	Scanner Conveyor Top Panel	7	
5	Scanner Conveyor Top Panel	22	
6	Scanner Conveyor Top Panel	25	
7	Entrance Conveyor Top Panel	9	
8	Entrance Conveyor Top Panel	5	
9	Entrance Conveyor Top Panel	3	

Highest Reading	25
Average Reading	10
Lowest Reading	3



SIDE PROFILE VIEW (OPPOSITE AC)

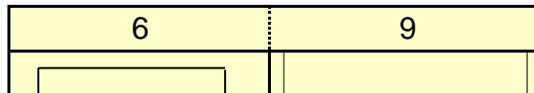
RADIATION SURVEY WORKSHEET



SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)			
Scattered Radiation Measurement Points Worksheet			No
Record highest reading per panel			PROBLEM
		$\mu\text{R}/\text{Hr}$	
1	Entrance Conveyor Panel	23	
2	Entrance Conveyor Panel	21	
3	Entrance Conveyor Panel	19	
4	Entrance Conveyor Panel	14	
5	Entrance Conveyor / Scanner Panel	37	
6	Upper Scanner Panel	2	
7	Middle Scanner Panel	2	
8	Lower Scanner Panel	1	
9	Upper Scanner Panel	2	
10	Middle Scanner Panel	1	
11	Lower Scanner Panel	3	
12	Exit Conveyor / Scanner Panel	7	
13	Exit Conveyor Panel	6	
14	Exit Conveyor Panel	6	
15	Exit Conveyor Panel	21	
16	Exit Conveyor Panel	19	

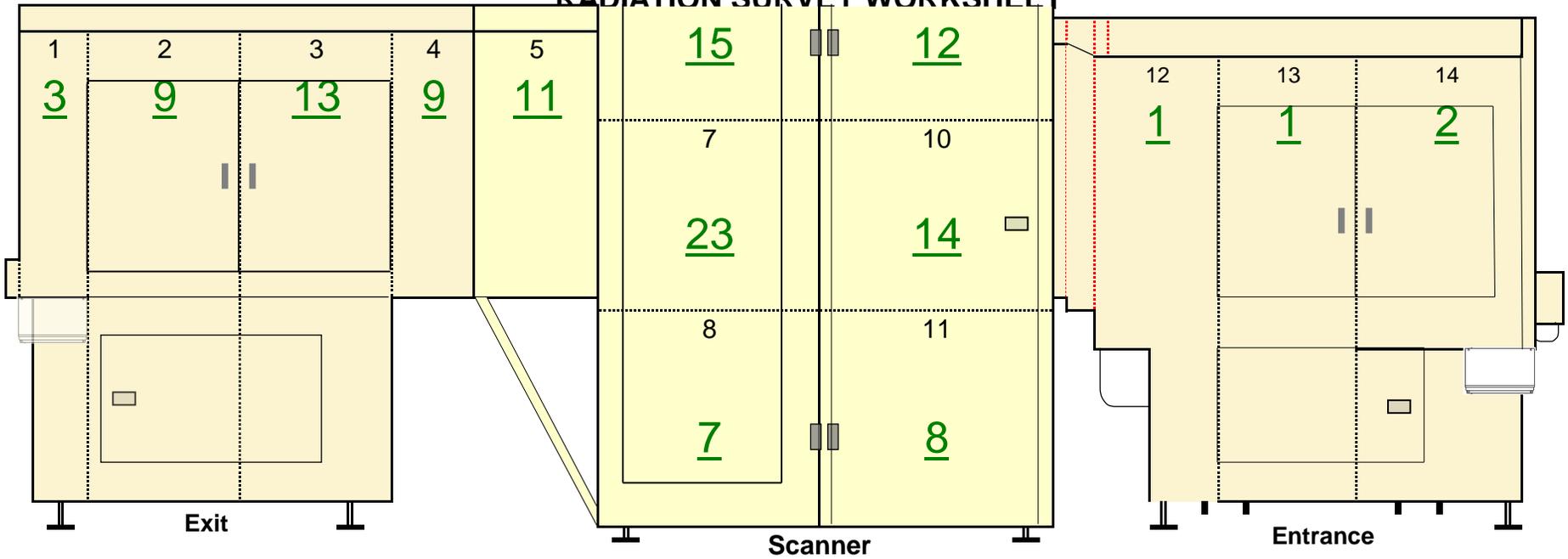
GOOD

Highest Reading	37
Average Reading	12
Low Reading	1



SIDE PROFILE VIEW (AC Side)

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	3	
2	Exit Conveyor Panel	9	
3	Exit Conveyor Panel	13	
4	Exit Conveyor Panel	9	
5	Exit Conveyor / Scanner Panel	11	
6	Upper Scanner Pane	15	
7	Middle Scanner Panel	23	
8	Lower Scanner Panel	7	
9	Upper Scanner Panel	12	
10	Middle Scanner Panel	14	
11	Lower Scanner Panel	8	
12	Entrance Conveyor / Scanner Panel	1	
13	Entrance Conveyor Panel	1	
14	Entrance Conveyor Panel	2	

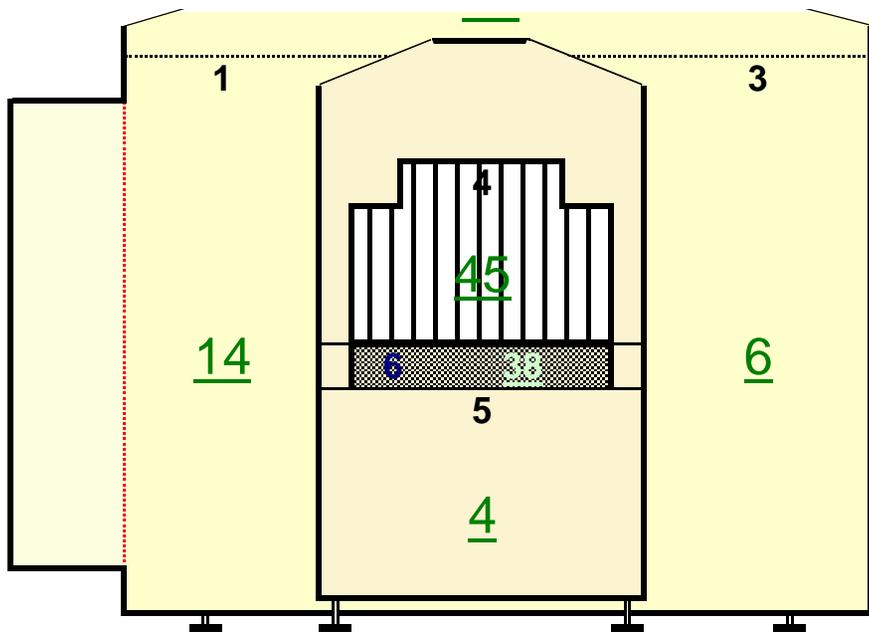
GOOD

Highest Reading	23
Average Reading	9
Low Reading	1

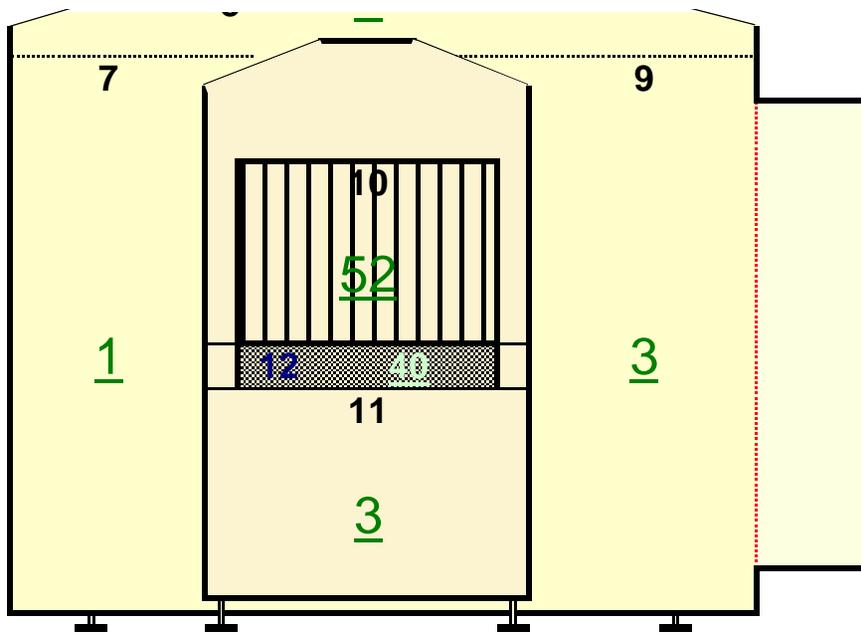
SYSTEM - FACES (End Views)



RADIATION SURVEY WORKSHEET



eXaminer entrance



eXaminer exit

SYSTEM - FACES (End Views)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Scanner Panel	14	
2	Scanner Top Panel	11	
3	Scanner Panel	6	
4	Belt Entrance	45	
5	Entrance Lower Panel	4	
6	Belt Lower Facia Cover Entrance	38	
7	Scanner Panel	1	
8	Scanner Top Panel	7	
9	Scanner Panel	3	
10	Belt Exit	52	
11	Exit Lower Panel	3	
12	Belt Lower Facia Cover Exit	40	

GOOD

Highest Reading	52
Average Reading	19
Low Reading	1