

RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

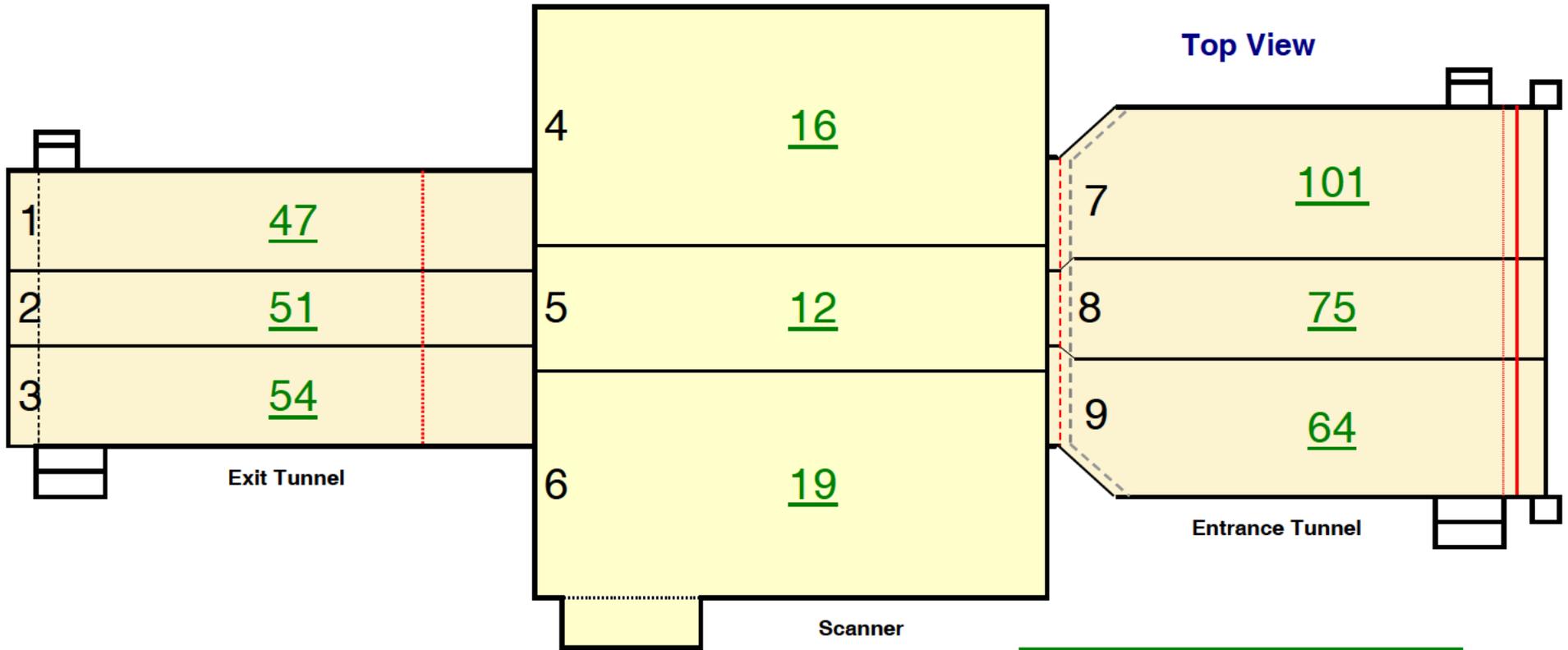
Airport: SJU	Scanner Location: curbside	Case#: 359854
Personnel Performing Radiation Survey: _____		Date Survey Performed: 3/23/2011
Scanner Serial Number: 6196	Entrance Tunnel Serial Number: 2136A	Exit Tunnel Serial Number: 2136B
High Reading: 41	Average Reading: 16.31	Min. Reading: 3
High Reading: 101	Average Reading: 37.86	Min. Reading: 9
High Reading: 128	Average Reading: 38.25	Min. Reading: 8
Good	Good	Good
Radiation Meter: _____	Type Meter: 451P	Meter Serial Number: 96
		Calibration Due Date: October 27, 2011

NOTES

Complete Radiation Survey (CRS)	Record Voltage and Bean Current here:
Rename this Document before starting the Survey to:	Voltage: 164356 KV Beam Current: 9.8 mA
359-CRS-23MAR2011-6196	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 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 3/24/2011 or #5 on the left side of the scanner.	Readings shall not exceed 350 uR/hr in any box.

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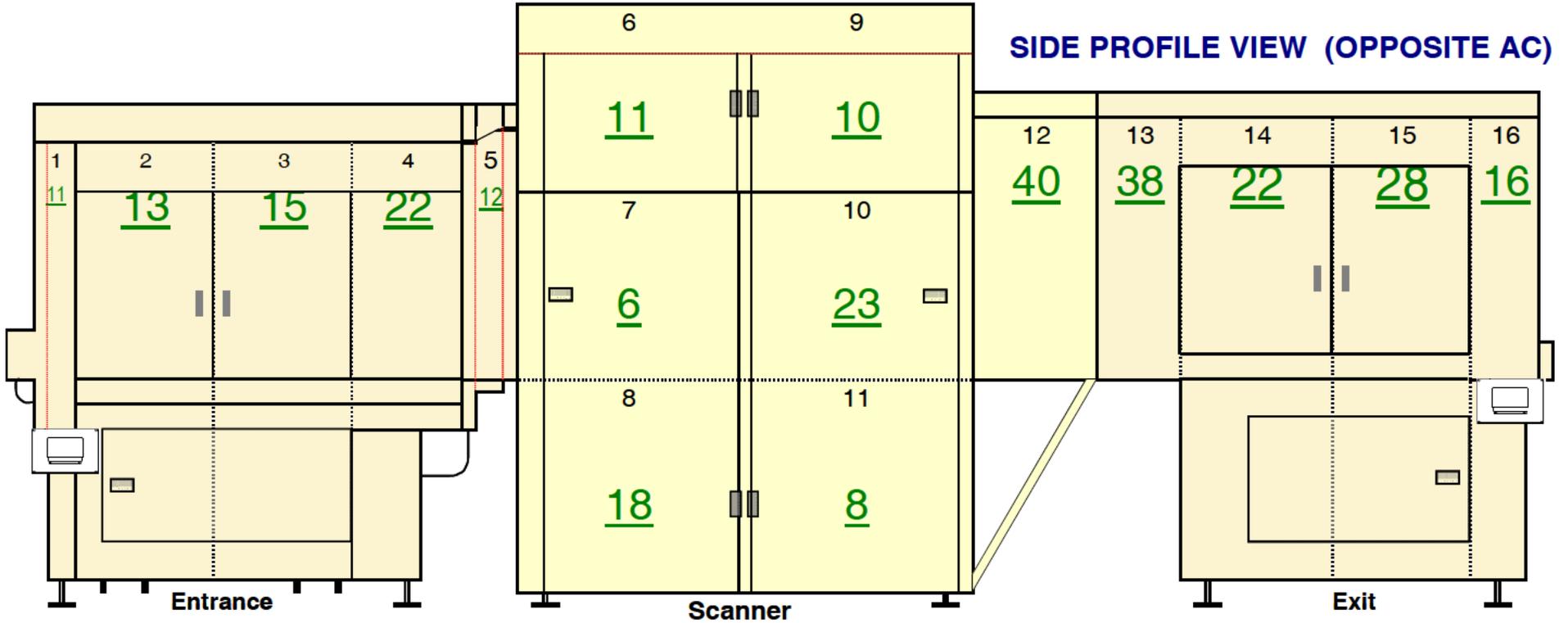


GOOD

Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Exit Conveyor Top Panel	47	
2	Exit Conveyor Top Panel	51	
3	Exit Conveyor Top Panel	54	
4	Scanner Conveyor Top Panel	16	
5	Scanner Conveyor Top Panel	12	
6	Scanner Conveyor Top Panel	19	
7	Entrance Conveyor Top Panel	101	
8	Entrance Conveyor Top Panel	75	
9	Entrance Conveyor Top Panel	64	

Highest Reading	101
Average Reading	49
Lowest Reading	12

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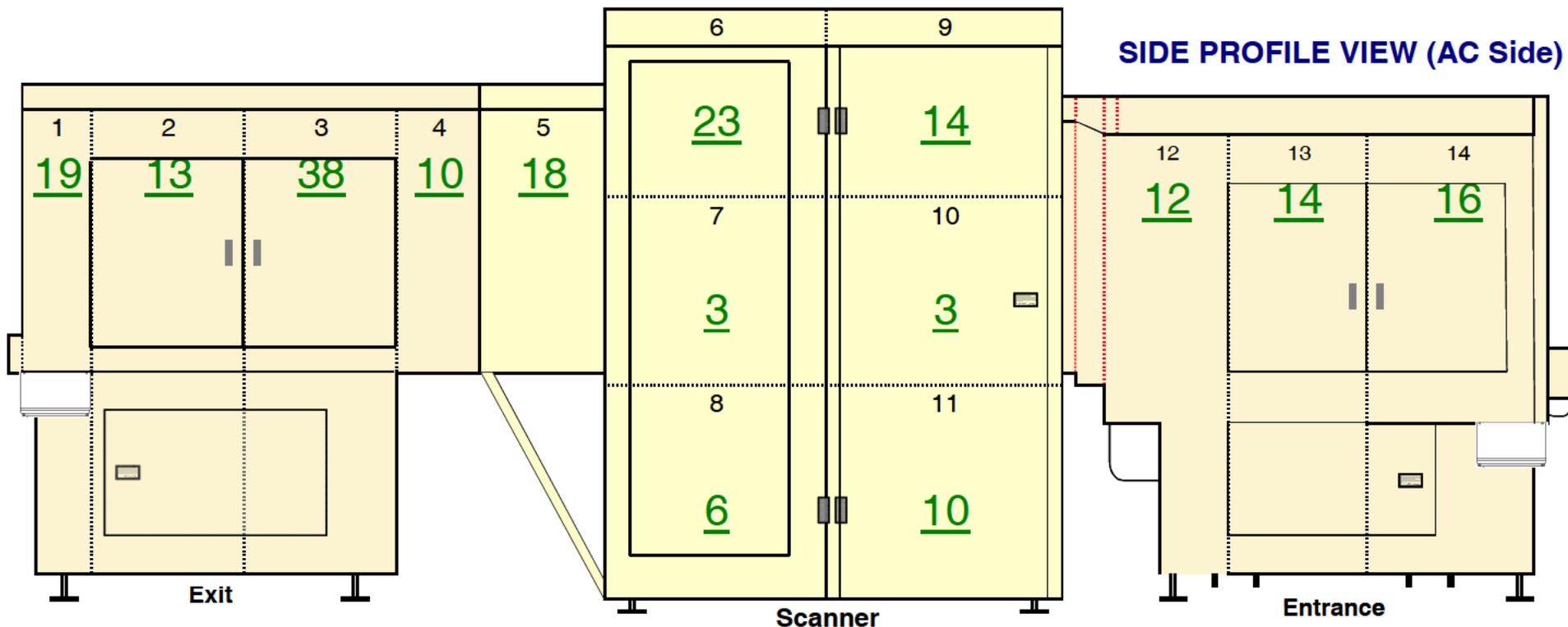


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel		μR/Hr
1	Entrance Conveyor Panel	11
2	Entrance Conveyor Panel	13
3	Entrance Conveyor Panel	15
4	Entrance Conveyor Panel	22
5	Entrance Conveyor / Scanner Panel	12
6	Upper Scanner Panel	11
7	Middle Scanner Panel	6
8	Lower Scanner Panel	18
9	Upper Scanner Panel	10
10	Middle Scanner Panel	23
11	Lower Scanner Panel	8
12	Exit Conveyor / Scanner Panel	40
13	Exit Conveyor Panel	38
14	Exit Conveyor Panel	22
15	Exit Conveyor Panel	28
16	Exit Conveyor Panel	16

GOOD

Highest Reading	40
Average Reading	18
Low Reading	6

RADIATION SURVEY WORKSHEET



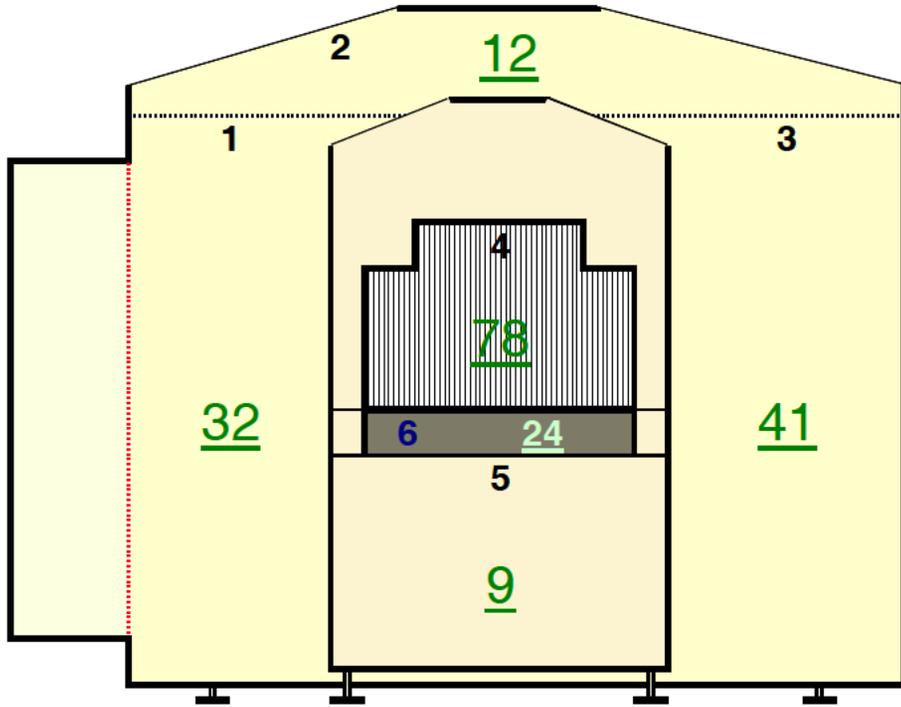
SYSTEM - SIDE PROFILE VIEW (AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Exit Conveyor Panel	19	
2	Exit Conveyor Panel	13	
3	Exit Conveyor Panel	38	
4	Exit Conveyor Panel	10	
5	Exit Conveyor / Scanner Panel	18	
6	Upper Scanner Pane	23	
7	Middle Scanner Panel	3	
8	Lower Scanner Panel	6	
9	Upper Scanner Panel	14	
10	Middle Scanner Panel	3	
11	Lower Scanner Panel	10	
12	Entrance Conveyor / Scanner Panel	12	
13	Entrance Conveyor Panel	14	
14	Entrance Conveyor Panel	16	

GOOD

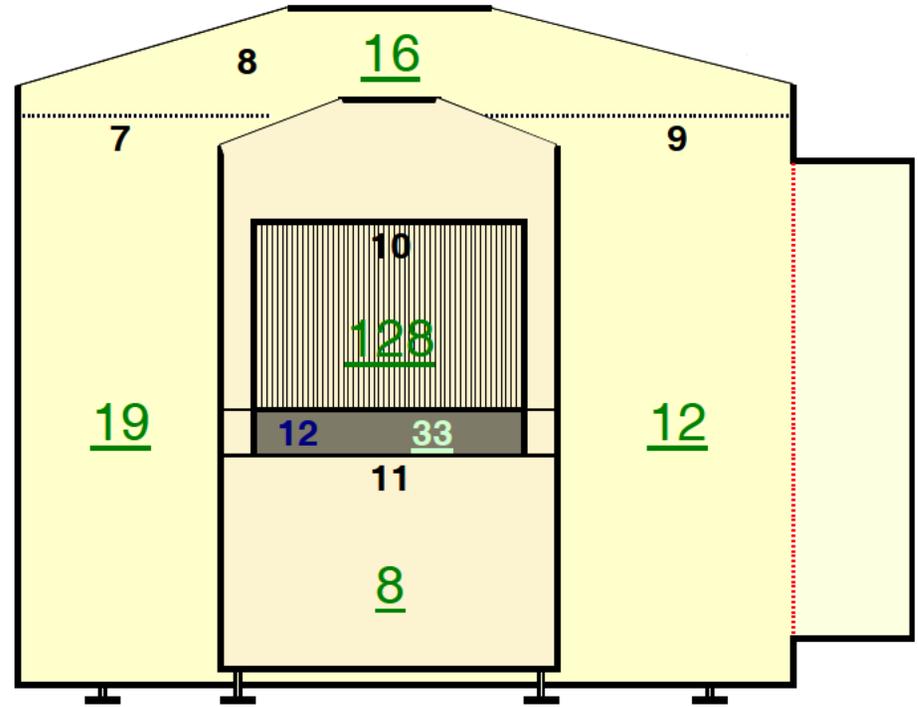
Highest Reading	38
Average Reading	14
Low Reading	3

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		µR/Hr	
1	Scanner Panel	32	
2	Scanner Top Panel	12	
3	Scanner Panel	41	
4	Belt Entrance	78	
5	Entrance Lower Panel	9	
6	Belt Lower Fascia Cover Entrance	24	
7	Scanner Panel	19	
8	Scanner Top Panel	16	
9	Scanner Panel	12	
10	Belt Exit	128	
11	Exit Lower Panel	8	
12	Belt Lower Fascia Cover Exit	33	

GOOD

Highest Reading	128
Average Reading	34
Low Reading	8