The information in this report is required by 14 CRF 108.17 & 129.26. Failure to report may result in a civil penalty not to exceed $1000.00 for each such violation. (Federal Aviation Act of 1958, Section 901)

Department of Transportation Federal Aviation Administration	X-RAY SYSTEM RADIATION LEAKAGE REPORT (BAGGAGE INSPECTION) (Require by 14 CRF 108.17, 14 CRF 129.26)	FIELD TEST SERIAL NO. 11-7 T	Form Approved OMB No. 2120-0096

AA	1.1 Name and Address of Facility and Specific Location of X-ray System	Name of Facility (10.50): GSP Airport	FDA Region: SC	BB St. No. R.R. or Airline/Airport (10.60): 2000 Gsp dr.	
CC		City (10.70): Greer		State Code: SC	Zip Code: 29651
DD		Room No. or Other Location of System (10.32): CK PT A, LN2	Person Interview (33-54): [redacted]	Telephone No.: [redacted]	
		Certification Label Present: Yes	Instrument: (type and serial number) Inovision	Model: 451	Serial No. 553
01	1.2 Manufacture And Product ID	A. Manufacture (Responsible Firm): Rapiscan	B. OHU46	C. System Model No. and/or Name: TRX 520B	
		D. 120V Unique I.D. 60Hz	E. System Serial No. 70428N08		
		F. Date of Manufacture Mo. 7 Yr. 2004	1.4 Operator Instructions Available: Yes	1.5 Maintenance Schedule Available: N/A	
	2.0 Warning Labels Indicators	2.1 Warning Label Present at Controls Stating: "Caution: X-Rays Produced When Energized" Yes	2.2 Warning Labels Present at Ports Stating: "Caution: Do Not Insert Any Part of the Body When System is Energized, X-Ray Hazard" Yes	2.3 Two Indicators Labeled "X-Ray On" Present at Controls (One May Be Labeled "mA Meter") Yes	
02		2.4 At Least One Indicator, X-Ray Marked "X-Ray On", Visible from Each Port, Door, And Access Panel Yes	3.0 Interlocks	3.1 "Captured Key" Control Yes	
	3.2 Door Safety Interlocks	A. Minimum Number of Interlocks Visible At Any One Door N/A	3.3 Prevention of X-Radiation By Interlocks	A. All Doors and Access Panels That Were Tested Prevent Generation of X-Radiation N/A	
		B. At Least One Interlock Dependent on No Moving Part Except Door N/A		B. Use of X-Ray Control Necessary to Resume Operation Following Interruption N/A	
	4.0 Ports and/or Apertures	4.1 Some Part of the Body Can Be Inserted Through a Port Into The Primary Beam No		4.2 Some Part of the Body Can Be Inserted Into the Aperture No	
	6.0 Baggage Inspection Systems	6.1 Means Provided to Ensure Operator Presence at the Control Area yes		6.2 Means Provided to Operator for Terminating Exposures of Greater than One-Half Second and Preventing Yes	
03	7.0 Leakage Radiation	Specific Test Procedure Used M	7.1 Scatter Block Description: Pelican case		
	7.2 Technical Factors	141 kVp	.7 mA		

	7.3 Location: Exposure Levels	Non-Continuously Activated Systems Only Number of Exposures Initiated		Location: Exposure Levels	Non-Continuously Activated Systems Only Number of Exposures Initiated
05	.076 mR/hr	Exp	06	.039 mR/hr	exp
	.036 mR/hr	Exp		.042 mR/hr	exp
	.047 mR/hr	exp		.065 mR/hr	exp
	.050 mR/hr	exp		.037 mR/hr	exp

07	Reasonable Number of Exposures That May Be Initiated In One Hour	OR	Duty Cycle of System Indicated As a Percentage of One Hour 100%
08	8.0 Additional Information 8.1 181uR		
09	8.2		
10	8.3		
11	8.4		
12	8.5		
13	Surveyor Information [redacted]	Date of Survey 3/14/11	Surveying Agency Code

Remarks:

FAA Form 165-17 (6-81)

FAA HQ

SIEMENS

Siemens Government Services, Inc.

Cabinet X-Ray Unit Radiation Survey Form (non-AT)

WO#: 3755698

Location: CKPTA, LN2 Background Reading: 3 µR/hr Date: 3/14/11

1. Identify Cabinet X-ray Unit and X-ray Generator information:
   a. Check appropriate Make/Model box below (if 'Other', record Make and Model on the line provided);
   b. Record the X-ray Unit's serial number next to the Make/Model;
   c. With the X-rays turned "ON", record the X-ray Generator Voltage (kV) and Anode Current (µA) Readings;
   d. Convert Anode Current readings from µA to mA by dividing the µA value by 1000 (example: 100 µA = 0.100 mA);
   e. Transfer the **Observed Voltage and Converted Anode Current** readings to Box 05, Section 7.2 (Technical Factures) of DOEO-0014 FAA Form 165-17.

Make / Model	Serial Number	Observed Voltage and Anode Current	Convert Anode Current to mA for FAA form (divide µA by 1000)
☐ Smiths Heimann 5030s	s/n	+ kV, - kV, µA	mA
☐ Smiths Heimann 6040I	s/n	+ kV, - kV, µA	mA
☐ Smiths Heimann 7555I	s/n	+ kV, - kV, µA	mA
☐ Rapiscan 519	s/n	kV, µA	mA
☑ Rapiscan 520B	s/n 70428N08	141 kV, 708 µA	.7 mA
☐ Rapiscan 522B	s/n	kV, µA	mA
☐ Other	s/n	kV, µA	mA

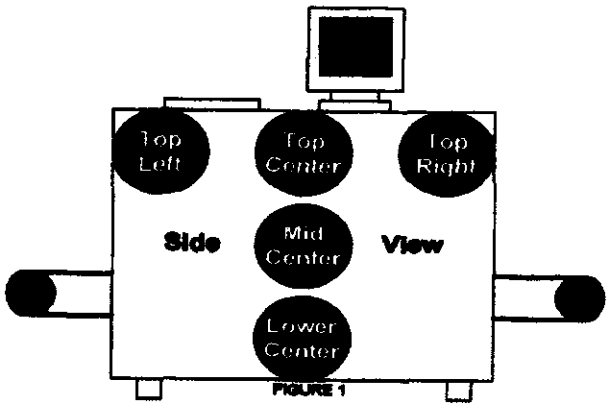

FIGURE 1

2. While holding the meter 5 centimeters (about 2 inches) from the surface, take readings in the area of the circles shown (Figure 1 above) on BOTH sides (Left and Right) of the X-ray machine (total of 10 readings):

   Note: The Inovision 451P Radiation Meter has a default range setting of µR/hr. Meter readings in µR/hr must be converted to mR/hr for this form and DOEO-0014 FAA Form 165-17.
   Conversion: 100 µR/hr = 0.100 mR/hr.

FRONT		BACK	
TOP LEFT	.002 mR/hr	TOP LEFT	.004 mR/hr
TOP CENTER	.004 mR/hr	TOP CENTER	.001 mR/hr
TOP RIGHT	.007 mR/hr	TOP RIGHT	.002 mR/hr
MID CENTER	.008 mR/hr	MID CENTER	.002 mR/hr
LOWER CENTER	.005 mR/hr	LOWER CENTER	.001 mR/hr

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SIEMENS

Siemens Government Services, Inc.

WO#: 3755698

X-Ray Serial #: 70478N08

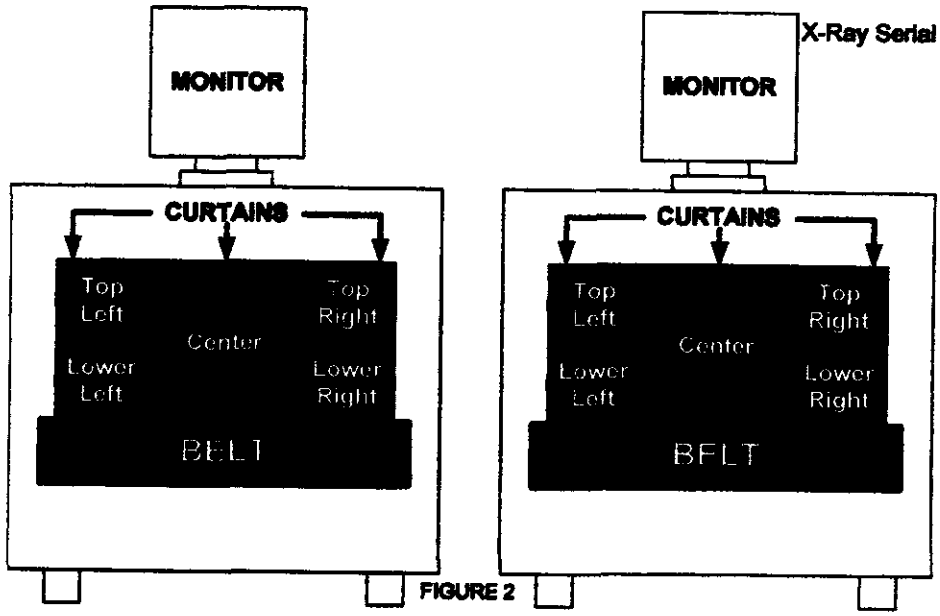

FIGURE 2

3. While holding the meter 5 centimeters (about 2 inches) from the surface, take readings in the area of the circles shown (Figure 2 above) on BOTH sides (ENTRANCE and EXIT) of the X-ray machine (total of 10 readings):

ENTRANCE			EXIT		
TOP LEFT	.039	mR/hr	TOP LEFT	.037	mR/hr
TOP RIGHT	.033	mR/hr	TOP RIGHT	.050	mR/hr
LOWER LEFT	.029	mR/hr	LOWER LEFT	.047	mR/hr
LOWER RIGHT	.042	mR/hr	LOWER RIGHT	.036	mR/hr
CENTER	.065	mR/hr	CENTER	.076	mR/hr

4. Transfer the 8 highest readings (out of all 20 readings) to Box 05, Section 7.3 (Exposure Levels) of DOEO-0014 FAA Form 165-17. Be sure to enter values in mR/hr!! (100 µR/hr = 0.100 mR/hr).

   Note: On all X-Ray equipment, any reading of 0.5 mR/h (= 500 µR/h) or higher is considered a failure of the Radiation Leak Survey.

5. Perform Cumulative Exposure Test:
   a. Push the MODE button once on the Inovision 451P;
   b. Verify that the meter's scale changes from µR/h to µR (Cumulative Mode);
   c. Place the meter on the belt and run through the X-Ray beam 10 times in Cumulative Mode. Record total here: 1.81mR
   d. Divide the cumulative exposure value by 10 to obtain the Dosage per Inspection;
   e. Record this result in Section 8.1 (Additional Information) of DOEO-0014 FAA Form 165-17.

Survey Performed By (print your name): [redacted]

Signature: [redacted] Date: 3/14/11

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