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 — Name of Facility (18.80): Pensacola Regional Airport — FDA Region: FL

RR St. No. R.R. or Airline/Airport (10.80): 2430 Airport Blvd.

CC City (10.23): Pensacola — State Code: FL — Zip Code: 32504

DD Room No. or Other Location of System (10.32): Main Checkpoint Ln 1 — Person Interview (33.54): [redacted] — Telephone No.: [redacted]

Certification Label Present: Yes — Instrument Type and Serial Number: Inovision — Model: 451P-R4R — Serial No. 588

01 1.2 Manufacture And Product ID — A. Manufacture (Responsible Firm): Smiths Detection — B. HS — C. System Model No. and/or Name: 7555i

D. 115VAC Unique I.D. 60Hz — E. System Serial No. 21296

F. Date of Manufacture Mo. June Yr. 2001 — 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

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

02 3.2 Door Safety Inter-Locks — A. Minimum Number of Interlocks Visible At Any One Door: N/A — B. At Least One Interlock Dependent on No Moving Part Except 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. 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 Prevailing: Yes

03 7.0 Leakage Radiation — Specific Test Procedure Used: B4 — 7.1 Scatter Block Description: Pelican Case for 451 meter

7.2 Technical Features: +70.96/-67.3 kVp — .5 mA

05 / **06**

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
.049 mR/hr	Exp	.023 mR/hr	exp
.044 mR/hr	Exp	.021 mR/hr	exp
.039 mR/hr	exp	.019 mR/hr	exp
.053 mR/hr	exp	.019 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 Dosage per inspection in μR: 71

09 8.2

10 8.3

11 8.4

12 8.5

13 Surveyor Information: [redacted] — Date of Survey: 9 MAR 11 — Surveying Agency Code

Remarks: [redacted]

FAA Form 165-17 (6-81) WO# 3773071

FAA HQ

SIEMENS

Siemens Government Services, Inc.

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

WO#: 3773071

Location: PNS Lane 1 Background Reading: 4 µR/hr Date: 9MAR11

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 21296	+ 79.96 kV, - 67.3 kV, 508 µA	.5 mA
☐ Rapiscan **519**	s/n_____	_____kV, _____µA	_____mA
☐ Rapiscan **520B**	s/n_____	_____kV, _____µA	_____mA
☐ Rapiscan **522B**	s/n_____	_____kV, _____µA	_____mA
☐ Other _____	s/n_____	_____kV, _____µA	_____mA

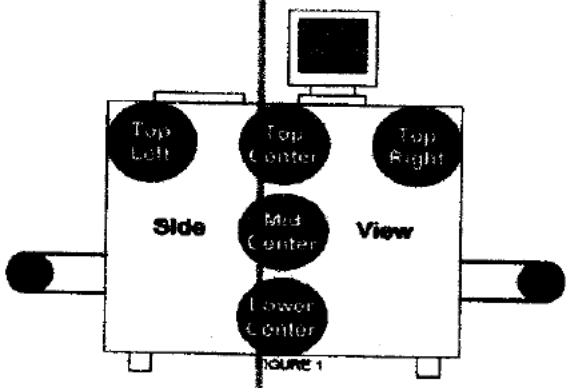

FIGURE 1

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	.015 mR/hr	TOP LEFT	.019 mR/hr
TOP CENTER	.021 mR/hr	TOP CENTER	.008 mR/hr
TOP RIGHT	.010 mR/hr	TOP RIGHT	.005 mR/hr
MID CENTER	.019 mR/hr	MID CENTER	.005 mR/hr
LOWER CENTER	.014 mR/hr	LOWER CENTER	.009 mR/hr

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SIEMENS

Siemens Government Services, Inc.

WO#: 3773071

X-Ray Serial #: 21296

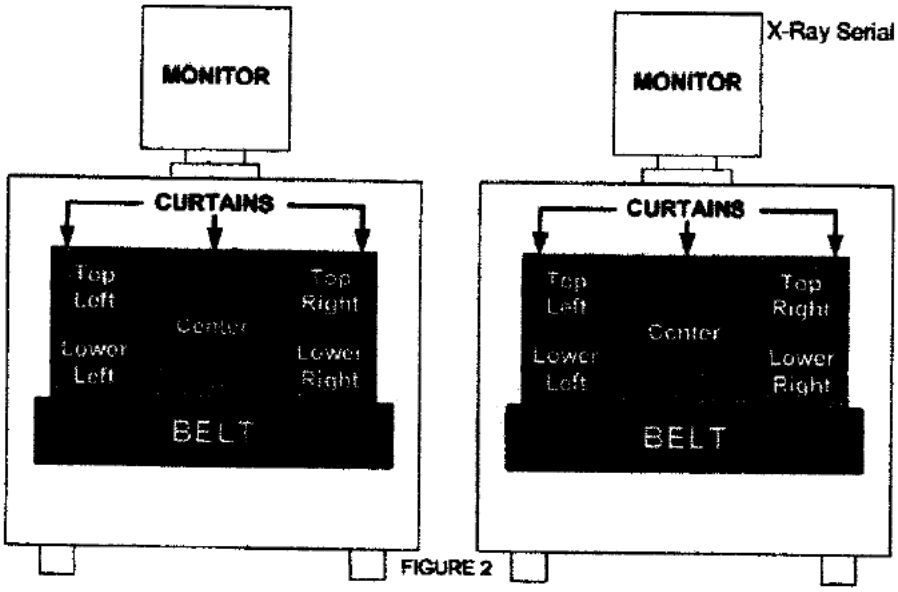

FIGURE 2

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	.023 mR/hr	TOP LEFT	.031 mR/hr
TOP RIGHT	.014 mR/hr	TOP RIGHT	.044 mR/hr
LOWER LEFT	.019 mR/hr	LOWER LEFT	.049 mR/hr
LOWER RIGHT	.008 mR/hr	LOWER RIGHT	.039 mR/hr
CENTER	.010 mR/hr	CENTER	.053 mR/hr

4. Transfer the **8 highest** readings (out of **all 20** readings) to **Box 06, 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:** 710µR
   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 Per[redacted]

Signature:[redacted] **Date:** 9MAR11

[redacted]

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