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<br>**Federal Aviation Administration** | *X-RAY SYSTEM RADIATION LEAKAGE REPORT (BAGGAGE INSPECTION)*<br>*(Require by 14 CRF 108.17, 14 CRF 129.26)* | FIELD TEST<br>SERIAL NO. 11-7<br>T | Form Approved OMB No.<br>2120-0098 |
|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| AA | 1.1 Name and Address of Facility and Specific Location of X-ray System | Name of Facility (18.80): PHILADELPHIA INT'L AIRPORT | FDA Region: PA | BB | St. No. R.R. or Airline/Airport (10.80): 8800 BUSINESS AVE |
| CC | | City (10.73): PHILA. | | State Code: PA | Zip Code: 19153 |
| DD | | Room No. or Other Location of System (10.32): A-EAST CKPT LANE 4 | Person Interview (33-54): [redacted] | Telephone No.: [redacted] | |
| | | Certification Label Present: YES | Instruments: (type and serial number) Model: RADEYE | Serial No. 0287 | |
| 01 | 1.2 Manufacture And Product ID | A. Manufacture (Responsible Firm): RAPISCAN SECURITY SYSTEM | B. OHV46 | C. System Model No. and/or Name: RAPISCAN 522B | |
| | | D. Unique I.D.: 115 rmc 60142 | E. System Serial No.: 7012404 | | |
| | | F. Date of Manufacture Mo. CAN Yr. NOT READ 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 | |
| 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 Inter-Locks | 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 YES | |
| | | 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 YES | |
| | 4.0 Ports and/or Apertures | 4.1 Some Part of the Body Can Be Inserted Through a Port Into The Primary Beam ND | | 4.2 Some Part of the Body Can Be Inserted Into the Aperture ND | |
| | 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 04 | 7.1 Scatter Block Description: Pelican case 1120 | | |

7.2 Technical Factures kVp 140 mA 700

| 05 | 7.3 Location Exposure Levels | Non-Continuously Activated Systems Only Number of Exposures Initiated | 06 | Location Exposure Levels | Non-Continuously Activated Systems Only Number of Exposures Initiated |
|---|---|---|---|---|---|
| | .099 mR/hr | Exp | | .090 mR/hr | exp |
| | .098 mR/hr | Exp | | .080 mR/hr | exp |
| | .097 mR/hr | exp | | .074 mR/hr | exp |
| | .093 mR/hr | exp | | .073 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<br>8.1 77.8 UR | | |
| 09 | 8.2 | | |
| 10 | 8.3 | | |
| 11 | 8.4 | | |
| 12 | 8.5 | | |
| 13 | Surveyor Information [redacted] | Date of Surrey 9/15/09 | Surveying Agency Code |
| Remarks | | | |

FAA Form 165-17 (6-81)

Sept 51340
DM 2547792

FAA HQ

ENTERED SEP 17 2009