smiths

Smiths Detection

# Field Radiation Survey Sheet

workorder 3411011

| SECTION | PART I - GENERAL PROCEDURE INFORMATION | | | | |
|---|---|---|---|---|---|
| A "PRE-TEST INFORMATION" | NAME AND ADDRESS OF FACILITY OR AIRPORT AND SPECIFIC LOCATION OF X-RAY SYSTEM | | | | |
| | NAME OF FACILITY | San Francisco International Airport | | | |
| | | Is this Facility Operated Exclusively by the Federal Government? | | ☐ YES | ☐ NO |
| | ADDRESS (Street No., Rural Rt., or Airline and Airport) | | | | |
| | CITY | San Francisco | STATE | CA | ZIP CODE 94128 |
| | ROOM NO. or OTHER LOCATION | T1-CPB | CONTACT PERSON | [redacted] | |
| | PHONE NO. | | FAX NO. | | |
| | MANUFACTURER | Smiths Detection | MODEL NO. | 6040i atix | |
| | DATE OF MFR. | 10/08 | SERIAL NO. | 79251 | |
| | MFR. CERTIFICATION LABEL ATTACHED | ☒ YES ☐ NO | | | |
| B "CABINET X-RAY CLASSIFICATION" | CLASSIFICATION OF CABINET X-RAY SYSTEM | | | | |
| | ☐ Baggage Inspection | ☐ Special Purpose | ☒ General Purpose | ☐ Other | |
| | | | Describe Other: | | |
| C "POSTINGS & INSTRUCTIONS" | POSTING & INSTRUCTION VERIFICATION (Not Applicable for Facilities Operated Exclusively by the Federal Government) | | | | |
| | ☐ State "Notice to Employees" Document Posted | ☒ Operators Instruction Manual on Location | | ☐ N/A | |
| | ☐ Certificate of X-ray Machine Registration on Location | ☐ Cabinet X-Ray Machine Maintenance Schedule Available | | | |
| D "WARNING LIGHTS & INDICATORS" | WARNING LIGHTS & INDICATOR VERIFICATION | | | | |
| | Warning Label Present at Controls Stating: "Caution: X-Rays Produced When Energized" | | | ☑ YES | ☐ NO |
| | Warning Labels Present at Ports Stating "Caution: Do Not Insert Any Part of the Body When System is Energized, X-Ray Hazard" | | | ☑ YES | ☐ NO |
| | Two Indicators Labeled "X-Ray ON" Present at Controls | | | ☑ YES | ☐ NO |
| | At Least One Indicator, Marked "X-Ray ON", is Visible from Each Port, Door, and Access Panel | | | ☑ YES | ☐ NO |
| E "INTERLOCKS" | INTERLOCK VERIFICATION TEST | | | | |
| | The Key for the Key Actuated Control Cannot be removed in Any Mode that Allows X-Ray Generation | | | ☑ YES | ☐ NO |
| | All Doors and Access Panels that were Tested Prevent Generation of X-Rays | | | ☑ YES | ☐ NO |
| | The Use of the ON Control is Necessary to Resume Operation of X-Rays Following Interruption of X-Ray Generation | | | ☑ YES | ☐ NO |
| F "PORTS AND APERTURES" | ACCESS TO PORTS AND APERTURES | | | | |
| | Some Part of the Body Can Be Inserted Through A "Port" Into the Primary Beam | | | ☐ YES | ☑ NO |
| | Some Part of the Body Can Be Inserted Through An "Aperture" | | | ☐ YES ☐ NO | ☑ N/A |
| G "BAGGAGE INSPECTION UNITS" | BAGGAGE INSPECTION UNIT CHECKS ONLY | | | | |
| | Means Provided to Ensure Operator Presence at the Control Area which Permits Surveillance of All Ports and Doors During X-Ray Generation | | | ☑ YES | ☐ NO |
| | Means Provided to the Operator for Terminating Exposures of Greater Than One-Half Second and Preventing Additional Exposures of Less Than One-Half Second | | | ☑ YES | ☐ NO |

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| SECTION | PART II - SPECIFIC PROCEDURE INFORMATION |
|---|---|
| H "LEAKAGE RADIATION" | LEAKAGE RADIATION - SPECIFIC TEST PROCEDURE # 01 |

Scattering Body Description: 8 reams — ☐ Lucite ☒ Paper ☐ Other

Describe Other:

X-Ray Machine Settings: see comments — kV: — mA:

Background: 3 uR/hr

Radiation Survey Instrument Used: Make/Model Number: Tamiliros 4810 — Serial Number: 573 — Calibration Date Due: 10/5/10

| Survey Location Description | Survey Point | External Surface Exposure Rates (uR/hr) | | Internal Exposure (mR) "Optional" | | Comments |
|---|---|---|---|---|---|---|
| | 1 | 6 | uR/hr | | mR | |
| | 2 | 6 | uR/hr | | mR | |
| | 3 | 5 | uR/hr | | mR | |
| | 4 | 25 | uR/hr | | mR | |
| | 5 | 6 | uR/hr | | mR | |
| | 6 | 7 | uR/hr | | mR | |
| | 7 | 7 | uR/hr | | mR | |
| | 8 | 6 | uR/hr | | mR | |
| | 9 | 4 | uR/hr | | mR | |
| | 10 | 5 | uR/hr | | mR | |
| | 11 | 5 | uR/hr | | mR | |
| | 12 | 3 | uR/hr | | mR | |
| | 13 | 5 | uR/hr | | mR | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Highest External Surface Exposure Rate Reading: 25 uR/hr — Location Description: 4

All External Surface Exposure Rate Readings Are Less Than 500 uR/hr (0.5 mR/hr) IAW 21 CFR 1020.40 — ☒ YES ☐ NO

| I "ADDITIONAL INFORMATION" | ADDITIONAL INFORMATION | | | | |
|---|---|---|---|---|---|
| | Overall Condition of Cabinet X-Ray Unit | ☒ SAT | ☐ UNSAT * | * Describe UNSAT Condition | |
| | Condition of Lead Curtains | ☒ SAT | ☐ UNSAT * | * Describe UNSAT Condition | |

Other Comments, Recommendations, Corrections, or Problems Encountered

| A | B | C | D |
|---|---|---|---|
| 83.3 kV | 81.5 | 79.6 | 80.5 |
| -80.1 kV | -80.1 | -75.5 | -78.7 |
| 503.5 mA | 503.5 | 466.9 | 485.2 |

8.6 mR

SURVEYOR'S NAME (Print: Last, First, Middle Int.: [redacted]

SURVEYOR'S SIGNATURE: [redacted]

DATE OF SURVEY AND INSPECTION: 9/16/10

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