smiths

Smiths Detection

Field Radiation Survey Sheet

W/O 3198017

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	Memphis INT'L Airport		
		Is this Facility Operated Exclusively by the Federal Government?	☐ YES	☒ NO
	ADDRESS (Street No., Rural Rt., or Airline and Airport)	6491 Winchester RD		
	CITY	Memphis	STATE TN	ZIP CODE 38116
	ROOM NO. or OTHER LOCATION	CV LN-1	CONTACT PERSON	
	PHONE NO.		FAX NO.	
	MANUFACTURER	Smith Detection	MODEL NO.	6040 ATIX
	DATE OF MFR.	2/2008	SERIAL NO.	76968
	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" LABEL WORN OFF		☐ 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 N/A		☐ 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" N/A		☐ 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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Form # 002.SerFRSSHF
Revision Date 03/11/2008

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

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

X-Ray Machine Settings: See Comments — kV / mA

Background: .003 3 uR/hr

Radiation Survey Instrument Used: Make/Model Number: Thermo Scientific — Serial Number: D979 — Calibration Date Due: 2/19/11

Survey Location Description	Survey Point	External Surface Exposure Rates (uR/hr)		Internal Exposure (mR) "Optional"		Comments
	1	.003	uR/hr 3		mR	
	2	.003	uR/hr 3		mR	
	3	.003	uR/hr 3		mR	
	4	.046	uR/hr 46		mR	
	5	.003	uR/hr 3		mR	
	6	.003	uR/hr 3		mR	
	7	.003	uR/hr 3		mR	
	8	.003	uR/hr 3		mR	
	9	.003	uR/hr 3		mR	
	10	.003	uR/hr 3		mR	
	11	.003	uR/hr 3		mR	
	12	.003	uR/hr 3		mR	
	13	.003	uR/hr 3		mR	

Highest External Surface Exposure Rate Reading: .046 uR/hr 46 — Location Description: EXIT

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"

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

	KV	mA
A	79.20/-75.99	462
B	78.28/-75.08	476
C	78.28/-75.08	458
D	75.08/-73.70	467

*Avg intake DOSAGE 1.44 mR (144 μR)

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

SURVEYOR'S SIGNATURE: [redacted]

DATE OF SURVEY AND INSPECTION: 6/28/2010

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