smiths

Smiths Detection

Field Radiation Survey Sheet

WO: 3449900

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?		[redacted] YES	[X] NO
	ADDRESS (Street No., Rural Rt., or Airline and Airport)	2495 Winchester			
	CITY	Memphis	STATE	TN	ZIP CODE 38116
	ROOM NO. or OTHER LOCATION	A Point	CONTACT PERSON	[redacted]	
	PHONE NO.	[redacted]	FAX NO.		
	MANUFACTURER	Smith Detection	MODEL NO.	HS 6040 A71X	
	DATE OF MFR.	2/2008	SERIAL NO.	77083	
	MFR. CERTIFICATION LABEL ATTACHED	[X] YES [ ] NO			
B "CABINET X-RAY CLASSIFICATION"	CLASSIFICATION OF CABINET X-RAY SYSTEM				
	[X] 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	[X] Operators Instruction Manual on Location	[ ] N/A		
	[X] 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"	[X] YES [ ] NO			
	Warning Labels Present at Ports Stating ""Caution: Do Not Insert Any Part of the Body When System is Energized, X-Ray Hazard"	[X] YES [ ] NO			
	Two Indicators Labeled "X-Ray ON" Present at Controls	[X] YES [ ] NO			
	At Least One Indicator, Marked "X-Ray ON", is Visible from Each Port, Door, and Access Panel	[X] 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 [X] NO			
	Some Part of the Body Can Be Inserted Through An "Aperture"	[ ] YES [ ] NO [X] 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	[X] 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	[X] YES [ ] NO			

Ult 57396
Number 3449900

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 — mA

Background: 2 uR/hr

Radiation Survey Instrument Used — Make/Model Number: THERMO PRO-RR — Serial Number: 0979 — 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	~~.002~~	uR/hr 2		mR	
	3	~~.002~~	uR/hr 2		mR	
	4	~~.035~~	uR/hr 35		mR	
	5	~~.002~~	uR/hr 2		mR	
	6	~~.002~~	uR/hr 2		mR	
	7	~~.003~~	uR/hr 3		mR	
	8	~~.002~~	uR/hr 2		mR	
	9	~~.002~~	uR/hr 2		mR	
	10	~~.002~~	uR/hr 2		mR	
	11	~~.002~~	uR/hr 2		mR	
	12	~~.002~~	uR/hr 2		mR	
	13	~~.003~~	uR/hr 3		mR	

Highest External Surface Exposure Rate Reading: ~~.035~~ uR/hr 35 — 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"

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
+kV	81.03	76.91	82.40	75.99
-kV	-75.99	-73.70	-79.66	-72.79
mA	476.11	466.96	489.85	453.22

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

SURVEYOR'S SIGNATURE [redacted]

DATE OF SURVEY AND INSPECTION: 10-8-10

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