2632496

Appendix D – Radiation survey form 002.SerFRSSHF [redacted]

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	MEM Memphis Intl. Airport			
		Is this Facility Operated Exclusively by the Federal Government?		☒ [redacted]	☐ [redacted]
	ADDRESS (Street No., Rural Rt., or Airline and Airport)	Memphis Intl. Airport			
	CITY	Memphis	STATE	TN	ZIP CODE 38132
	ROOM NO. or OTHER LOCATION		CONTACT PERSON	[redacted]	
	PHONE NO.	[redacted]	FAX NO.		
	MANUFACTURER	Smiths Detection	MODEL NO.	HS6040 a-tix	
	DATE OF MFR.	FEB 2008	SERIAL NO.	[illegible] 77083	
	MFR. CERTIFICATION LABEL ATTACHED	☒ [redacted] ☐ [redacted]			
B "CABINET X-RAY CLASSIFICATION"	CLASSIFICATION OF CABINET X-RAY SYSTEM				
	☒ [redacted]	☐ [redacted]	☐ [redacted]	☐ [redacted]	
				Describe Other:	
C "POSTINGS & INSTRUCTIONS"	POSTING & INSTRUCTION VERIFICATION (Not Applicable for Facilities Operated Exclusively by the Federal Government)				
	☒ [redacted]	☒ [redacted]	☐ [redacted]		
	☒ [redacted]	☒ [redacted]			
D "WARNING LIGHTS & INDICATORS"	WARNING LIGHTS & INDICATOR VERIFICATION				
	Warning Label Present at Controls Stating: "Caution: X-Rays Produced When Energized"			☒ [redacted]	☐ [redacted]
	Warning Labels Present at Ports Stating "Caution: Do Not Insert Any Part of the Body When System is Energized, X-Ray Hazard"			☒ [redacted]	☐ [redacted]

Modification No.	Complied	Tested	Approved
	[redacted]		[redacted]

SENSITIVE SECURITY INFORMATION

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ENTERED OCT 12 2009 OCT 57396 Re-INSTALL
NON-SCHED 2632496

	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

SECTION ***PART II - SPECIFIC PROCEDURE INFORMATION***

H "LEAKAGE RADIATION"

LEAKAGE RADIATION - SPECIFIC TEST PROCEDURE # 01

Scattering Body Description: ☐ Bottle ☒ Paper ☐ Other

Describe Other:

X-Ray Machine Settings	kV	160
	mA	470
Radiation Survey Instrument Used	Make/Model Number	THERMO ESM 40
	Serial Number	C-15377
	Calibration Date Due	7/27/10

Survey Location Description	Survey Point	External Surface Exposure Rates (uR/hr)		Internal Exposure (mR) "Optional"		Comments
	1	10.0	uR/hr		mR	
	2	10.2	uR/hr		mR	
	3	13.7	uR/hr		mR	

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	[redacted]		[redacted]

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	4	10.0	uR/hr		mR	
	5	10.0	uR/hr		mR	
	6	8.4	uR/hr		mR	
	7	10.4	uR/hr		mR	
	8	10.1	uR/hr		mR	
	9	7.7	uR/hr		mR	
	10	10.2	uR/hr		mR	
	11	8.4	uR/hr		mR	
	12	10.2	uR/hr		mR	
	13	10.0	uR/hr		mR	
	14	N/A	uR/hr		mR	

Highest External Surface Exposure Rate Reading	13.7	13.7	uR/hr	Location Description 3
All External Surface Exposure Rate Readings Are Less Than 500 uR/hr (0.5 mR/hr) IAW 21 CFR 1020.40				☒ ☐

"ADDITIONAL INFORMATION"

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

Other Comments, Recommendations, Corrections, or Problems Encountered

	Gen-A	Gen-B	Gen-C	Gen D
+ High	80.11 kV	75.99 kV	82.40	75.54
− High	−76.91 kV	−73.70 kV	−81.11	−73.25
Heater	476.11 uA	466.96 mA	489.42 mA	457.50 mA
A [illegible] DE Current	686.70 uA	654.65 uA	705.01 uA	650.08 uA

SURVEYOR'S NAME (Print: Last, First, Middle Int.	[redacted]
SURVEYOR'S SIGNATURE	
DATE OF SURVEY AND INSPECTION	9/29/09

Modification No.	Complied	Tested	Approved
	[redacted]		[redacted]

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