2632484

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	Memphis International Airport			
		Is this Facility Operated Exclusively by the Federal Government?		☑ [redacted]	☐ [redacted]
	ADDRESS (Street No., Rural Rt., or Airline and Airport)	Memphis International Airport			
	CITY	Memphis	STATE	TN	ZIP CODE 38132
	ROOM NO. or OTHER LOCATION	FIS Lane 2	CONTACT PERSON	[redacted]	
	PHONE NO.		FAX NO.		
	MANUFACTURER	Smiths Detection	MODEL NO.	HS 6040i	
	DATE OF MFR.	12/01	SERIAL NO.	76069	
	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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NON-SCHED 2632484

	Two Indicators Labeled "X-Ray ON" Present at Controls	☒	☐
	At Least One Indicator, Marked "X-Ray ON", is Visible from Each Port, Door, and Access Panel	☒	☐
E "INTERLOCKS"	*INTERLOCK VERIFICATION TEST*		
	The Key for the Key Activated Control Cannot be removed in Any Mode that Allows X-Ray Generation	☒	☐
	All Doors and Access Panels that were Tested Prevent Generation of X-Rays	☒	☐
	The Use of the ON Control is Necessary to Resume Operation of X-Rays Following Interruption of X-Ray Generation	☒	☐
F "PORTS AND APERTURES"	ACCESS TO PORTS AND APERTURES		
	Some Part of the Body Can Be Inserted Through A "Port" Into the Primary Beam	☐	☒
	Some Part of the Body Can Be Inserted Through An "Aperture"	☐	☒ ☐
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	☒	☐
	Means Provided to the Operator for Terminating Exposures of Greater Than One-Half Second and Preventing Additional Exposures of Less Than One-Half Second	☒	☐

SECTION *PART II – SPECIFIC PROCEDURE INFORMATION*

H "LEAKAGE RADIATION"

LEAKAGE RADIATION - SPECIFIC TEST PROCEDURE # 01

Scattering Body Description: ☐ Metallic ☒ Paper ☐ Other

Describe Other:

X-Ray Machine Settings	kV	160
	mA	476
Radiation Survey Instrument Used	Make/Model Number	THERMO ESM FH-40 G-L
	Serial Number	015377
	Calibration Date Due	7/27/10

Survey Location Description	Survey Point	External Surface Exposure Rates (uR/hr)		Internal Exposure (mR) "Optional"		Comments
	1	7.7	uR/hr		mR	
	2	7.0	uR/hr		mR	
	3	7.1	uR/hr		mR	

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	[redacted]		[redacted]

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	4	6.3	uR/hr		mR	
	5	7.0	uR/hr		mR	
	6	7.2	uR/hr		mR	
	7	7.3	uR/hr		mR	
	8	7.2	uR/hr		mR	
	9	7.2	uR/hr		mR	
	10	6.9	uR/hr		mR	
	11	N/A	uR/hr		mR	
	12	N/A	uR/hr		mR	
	13	N/A	uR/hr		mR	
	14	N/A	uR/hr		mR	
	Highest External Surface Exposure Rate Reading	7.7	uR/hr		Location Description	
	All External Surface Exposure Rate Readings Are Less Than 500 uR/hr (0.5 mR/hr) IAW 21 CFR 1020.40					☒ [redacted] ☐ [redacted]

I "ADDITIONAL INFORMATION"	ADDITIONAL INFORMATION			
	Overall Condition of Cabinet X-Ray Unit	☒ [redacted]	☐ [redacted]*	*Describe UNSAT Condition
	Condition of Lead Curtains	☒ [redacted]	☐ [redacted]*	*Describe UNSAT Condition
	Other Comments, Recommendations, Corrections, or Problems Encountered			

	GEN A	GEN-B	GEN C	GEN-D
+ High	79.20	76.91	84.69	78.28
− High	-77.37	-74.62	−81.95	-76.45
Heater	476.11 mA	471.53 mA	612.74 mA	485.27 mA
Anode	682.12 uA	659.23 uA	727.90 uA	677.54 uA

SURVEYOR'S NAME (Print: Last, First, Middle Int.	[redacted]
SURVEYOR'S SIGNATURE	[redacted]
DATE OF SURVEY AND INSPECTION	10/01/09

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

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