smiths

Smiths Detection

Field Radiation Survey Sheet

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	Reagan National Airport (DCA)		
	Is this Facility Operated Exclusively by the Federal Government?	☑ YES ☐ NO		
	ADDRESS (Street No., Rural Rt., or Airline and Airport)	1 Aviation Drive		
	CITY	DCA		
		Washington DC	STATE –	ZIP CODE 20001
	ROOM NO. or OTHER LOCATION	C-Pier bare 1	CONTACT PERSON	[redacted]
	PHONE NO.	[redacted]	FAX NO.	
	MANUFACTURER	Smiths Detection	MODEL NO.	6040 ATX
	DATE OF MFR.	March 2008	SERIAL NO.	77564
	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 TESTS			
	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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Form # 002.SerFRSSHF
Revision Date 03/11/2008

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Field Radiation Survey Sheet

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

Scattering Body Description: ☐ Lucite ☐ Paper ☑ Other

Describe Other: Cal. Kits

X-Ray Machine Settings: kV see; mA comments

Radiation Survey Instrument Used: Make/Model Number: Inovision 451P; Serial Number: 500; Calibration Date Due: 1-11-12

Background: 5 uR/hr

Survey Location Description	Survey Point	External Surface Exposure Rates (uR/hr)		Internal Exposure (mR) "Optional"		Comments
	1	13	uR/hr		mR	
	2	10	uR/hr		mR	
	3	11	uR/hr		mR	
	4	73	uR/hr		mR	
	5	11	uR/hr		mR	
	6	12	uR/hr		mR	
	7	8	uR/hr		mR	
	8	10	uR/hr		mR	
	9	9	uR/hr		mR	
	10	12	uR/hr		mR	
	11	7	uR/hr		mR	
	12	13	uR/hr		mR	
	13	15	uR/hr		mR	

Highest External Surface Exposure Rate Reading: 73 uR/hr — Location Description: exit tunnel

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

	Anode Voltage		Anode Current
A.)	+80.22 kV	-81.31 kV	715 μA
B.)	+75.37 kV	-79.17 kV	702 μA
C.)	+76.55 kV	-77.82 kV	705 μA
D.)	+80.52 kV	-82.61 kV	670 μA

Average Dose 0.86 mR MWO# 3787158

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

SURVEYOR'S SIGNATURE: [redacted]

DATE OF SURVEY AND INSPECTION: 3-15-2011

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