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 IDENTIFICATION OF X-RAY SYSTEM				
	NAME OF FACILITY	Reagan National Airport			
		Is this Facility Operated Exclusively by the Federal Government?		☑ YES	☐ NO
	ADDRESS (Street No., Rural Rt., or Airline and Airport)	1 Aviation Drive			
		DCA			
	CITY	Washington DC	STATE	—	ZIP CODE 20001
	ROOM NO. or OTHER LOCATION	Terminal A Lane 2	CONTACT PERSON	[redacted]	
	PHONE NO.	[redacted]	FAX NO.	[redacted]	
	MANUFACTURER	Smiths Detection	MODEL NO.	6040atix	
	DATE OF MFR.	March 2008	SERIAL NO.	77579	
	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"	POSTINGS & 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 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

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 INFO

Scattering Body Description: ☐ Lucite ☐ Paper ☑ Other

Describe Other: Cal. Kits

X-Ray Machine Settings: kV: see comments; mA:

Radiation Survey Instrument Used: Make/Model Number: Inovision 451P; Serial Number: 500; Calibration Date Due: 1-11-2012

Background: 2 uR/hr

Survey Location Description	Survey Point	External Surface Exposure Rates (uR/hr)		Internal Exposure (mR) "Optional"		Comments
	1	8	uR/hr		mR	
	2	6	uR/hr		mR	
	3	7	uR/hr		mR	
	4	32	uR/hr		mR	
	5	12	uR/hr		mR	
	6	11	uR/hr		mR	
	7	9	uR/hr		mR	
	8	7	uR/hr		mR	
	9	7	uR/hr		mR	
	10	6	uR/hr		mR	
	11	7	uR/hr		mR	
	12	7	uR/hr		mR	
	13	11	uR/hr		mR	

Highest External Surface Exposure Rate Reading: 32 uR/hr — Location Description: tunnel 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

	Voltage	Current	Anode Current
A)	+83.32kV	-78.28kV	705.01 μA
B)	+80.11kV	-76.91kV	686.70 μA
C)	+78.74kV	-73.25kV	659.23 μA
D)	+83.78kV	-79.20kV	705.01 μA

Average Dose = 0.87mR MWO# 3746572

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

SURVEYOR'S SIGNATURE: [redacted]

DATE OF SURVEY AND INSPECTION: 3-21-2011