smiths

Smiths Detection

Field Radiation Survey Sheet

MWO# 3705675

SECTION	PART I – GENERAL PROCEDURE INFORMATION				
A "PRE-TEST INFORMATION"	NAME OF FACILITY	Washington Dulles International Airport			
	Is this Facility Operated Exclusively by the Federal Government?				☑ YES ☐ NO
	ADDRESS (Street No., Rural Rt., or Airline and Airport)	1 Saarinen Circle			
	CITY	IAD			
		Dulles	STATE	VA	ZIP CODE 20166
	ROOM NO. or OTHER LOCATION	Lane 30	CONTACT PERSON	[redacted]	
	PHONE NO.	[redacted]	FAX NO.	[redacted]	
	MANUFACTURER	Smiths Detection	MODEL NO.	6040 ATX	
	DATE OF MFR.	Feb. 2008	SERIAL NO.	76977	
	MFR. CERTIFICATION LABEL ATTACHED	☑ YES ☐ NO			
B "CABINET X-RAY CLASSIFICATION"	☑ Baggage Inspection	☐ Special Purpose	☐ General Purpose	☐ Other	
				Describe Other:	
C "POSTINGS & INSTRUCTIONS"	☐ 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 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"	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"	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"	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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SECTION	PART II - SPECIFIC PROCEDURE INFORMATION
H "LEAKAGE RADIATION"	LEAKAGE RADIATION - SPECIFIC TEST PROCEDURE - H

Scattering Body Description: ☐ Lucite ☐ Paper ☑ Other

Describe Other: Calibration Kits

X-Ray Machine Settings: kV / mA: See Comments

Radiation Survey Instrument Used: Make/Model Number: Inovision 451-P; Serial Number: 640; Calibration Date Due: 8-19-2011

Background: 2 uR/hr

Survey Location Description	Survey Point	External Surface Exposure Rates (uR/hr)		Internal Exposure (mR) "Optional"		Comments
	1	6	uR/hr		mR	
	2	4	uR/hr		mR	
	3	4	uR/hr		mR	
	4	21	uR/hr		mR	
	5	8	uR/hr		mR	
	6	7	uR/hr		mR	
	7	6	uR/hr		mR	
	8	5	uR/hr		mR	
	9	5	uR/hr		mR	
	10	6	uR/hr		mR	
	11	5	uR/hr		mR	
	12	5	uR/hr		mR	
	13	4	uR/hr		mR	

Highest External Surface Exposure Rate Reading: 21 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	Anode Current
A)	+79.20kV - 77.83kV	686.70 µA
B)	+79.20kV - 76.45kV	682.12 µA
C)	+75.54kV - 74.62kV	650.08 µA
D)	+80.11kV - 78.74kV	691.28 µA

MWO# 3765675

10-Pass Average Dose — 0.70 mR

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

SURVEYOR'S SIGNATURE: [redacted]

DATE OF SURVEY AND INSPECTION: 3-30-2011