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	BOSTON LOGAN INT			
	Is this Facility Operated Exclusively by the Federal Government?	☑ YES ☐ NO			
	ADDRESS (Street No., Rural Rt., or Airline and Airport)	2 SERVICE ROAD Building 11 3RD Floor			
	CITY	E. BOSTON	STATE	MA	ZIP CODE 02128
	ROOM NO. or OTHER LOCATION	BOS	CONTACT PERSON	[redacted]	
	PHONE NO.	[redacted]	FAX NO.		
	MANUFACTURER	Smiths	MODEL NO.	6040 aTIX	
	DATE OF MFR.	mar 2009	SERIAL NO.	80504	
	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 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			

MWO# 3745166

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 # 01

Scattering Body Description	BINS	☑ Lucite ☐ Paper ☐ Other	
		Describe Other:	
X-Ray Machine Settings	kV / mA	SEE COMMENTS	Background
Radiation Survey Instrument Used	Make/Model Number	Envision 451P	2 uR/hr
	Serial Number	441	
	Calibration Date Due	09/01/11	

Survey Location Description	Survey Point	External Surface Exposure Rates (uR/hr)		Internal Exposure (mR) "Optional"		Comments
	1	10	uR/hr		mR	
	2	12	uR/hr		mR	
	3	16	uR/hr		mR	
	4	46	uR/hr		mR	
	5	47	uR/hr		mR	
	6	48	uR/hr		mR	
	7	10	uR/hr		mR	
	8	11	uR/hr		mR	
	9	12	uR/hr		mR	
	10	18	uR/hr		mR	
	11	20	uR/hr		mR	
	12	19	uR/hr		mR	
	13	14	uR/hr		mR	
Highest External Surface Exposure Rate Reading		48	uR/hr	Location Description		6
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: NEW	☑ SAT	☐ UNSAT *	* Describe UNSAT Condition	
	Condition of Lead Curtains: NEW	☑ SAT	☐ UNSAT *	* Describe UNSAT Condition	

Other Comments, Recommendations, Corrections, or Problems Encountered

	(A)	(B)	(C)	(D)
HKV / KV	+83K / -79K	+79kV / -77kV	+82kV / -79kV	+75kV / -74kV
Heater current mA	508mA	513mA	485mA	457mA
Anode current μA	709μA	714μA	677μA	654μA

DOSAGE PER INSPECTION: 0.82 mRem

SURVEYOR'S NAME (Print: Last, First, Middle Int.	[redacted]
SURVEYOR'S SIGNATURE	[redacted]
DATE OF SURVEY AND INSPECTION	3-23-11

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