Smiths Detection

Field Radiation Survey Sheet

WO# 3739626

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	Denver International Airport			
	Is this Facility Operated Exclusively by the Federal Government?	☒ YES ~~☐ NO~~			3/28/11
	ADDRESS (Street No., Rural Rt., or Airline and Airport)	8400 Peña Blvd.			
	CITY	Denver	STATE	CO	ZIP CODE 80249
	ROOM NO. or OTHER LOCATION	South Lane 8	CONTACT PERSON	[redacted]	
	PHONE NO.	[redacted]	FAX NO.		
	MANUFACTURER	Smith Detection	MODEL NO.	HS 6040 ATIX	
	DATE OF MFR.	February 2008	SERIAL NO.	76976	
	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	[redacted]	3/28/11
	~~☑ 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	

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SECTION	PART II - SPECIFIC PROCEDURE INFORMATION
H "LEAKAGE RADIATION"	LEAKAGE RADIATION - SPECIFIC TEST PROCEDURE # 01

Scattering Body Description: 8 rems — ☐ Lucite ☑ Paper ☐ Other — Describe Other:

X-Ray Machine Settings: See Comments — kV: Sec I — mA: Sec I

Radiation Survey Instrument Used — Make/Model Number: Enovision 451P — Serial Number: 475 — Calibration Date Due: 9-16-11

Background: 7 uR/hr

Survey Location Description	Survey Point	External Surface Exposure Rates (uR/hr)		Internal Exposure (mR) "Optional"		Comments
Ent. Tunnel	1	23	uR/hr		mR	
PAX Ent. End	2	28	uR/hr		mR	
OPER Ent. End	3	28	uR/hr		mR	
Exit Tunnel	4	56	uR/hr		mR	
PAX Exit End	5	26	uR/hr		mR	
OPER Exit End	6	25	uR/hr		mR	
OPER Small	7	21	uR/hr		mR	
OPER Center	8	30	uR/hr		mR	
OPER Large	9	17	uR/hr		mR	
PAX Small	10	23	uR/hr		mR	
PAX Center	11	18	uR/hr		mR	
PAX Large	12	23	uR/hr		mR	
TOP	13	16	uR/hr		mR	

Highest External Surface Exposure Rate Reading: 56 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

	KV	mA
A	159	485
B	160	489
C	161	476
D	158	476

Average Internal Dose .83 mRem/hour

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

SURVEYOR'S SIGNATURE [redacted]

DATE OF SURVEY AND INSPECTION: 10 MARCH 2011

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