Rapiscan Systems	BAGGAGE/PARCEL CABINET X-RAY SYSTEM RADIATION LEAKAGE REPORT	FIELD SERVICE ENGINEERS	Form R-0588-1 9/9/09 45. RSI W.O.# 3438383 Deferred W.O.#

1. Name of Facility: HARTSFIELD JACKSON	2. Region: EAST	3. Street Address: 6000 N. TERMINAL	
4. City: ATLANTA		5. State or Province Code: GA	6. Zip Code: 30320
7. Room No. or Other Physical Location of System: MAIN # 3	[redacted]	9. Telephone Number: [redacted]	10. Fax Number
11. Manufacture Information & Certification Label Present ☑ Yes - Pass ☐ No - Fail	12. Radiation Measuring Instrument: FSE Shall Attach Copy of Calibration Certificate to This Form Model: 451P Serial No. 676 Calibration Due Date: 8-2-2011		
Manufacturer: Rapiscan Systems Inc.	13. System Model No. 620DV	14. Single Source ☐ Dual Source ☐ Other ☐, Describe:	15. System Serial No. 708 3504
16. Date of Manufacture Mo. Aug Yr. 2008	18. Facility Owner Has been notified of responsibility for "Application for Registration" with their State Radiation Control Agency ☑ Yes ☐ No	19. Customer has been notified of their responsibility for posting their State "Notice to Employees" Document and Posted in Several Conspicuous Locations so Employees Can View ☑ Yes ☐ No	
17. X-ray Tube Serial Number(s): P9541, P4173	20. Operator Instructions Available ☑ Yes - Pass ☐ No - Fail	21. Maintenance Schedule Available ☑ Yes - Pass ☐ No - Fail	
22. Warning Label Present at Controls Stating: "Caution: X-Rays Produced When Energized" ☑ Yes - Pass ☐ No - Fail	23. Warning Labels Present at Ports Stating: "Caution: Do Not Insert Any Part of the Body When System is Energized, X-Ray Hazard" ☑ Yes - Pass ☐ No - Fail	24. Two Indicators Labeled "X-Ray On" Present at Controls (including software user interface) ☑ Yes - Pass ☐ No - Fail	
25. At Least One Indicator, Marked "X-Ray On" is Visible from Each Port ☑ Yes - Pass ☐ No - Fail	26. Captured Key: The Key for the Key Actuated Control Cannot be Removed in Any Mode that Allows X-Ray Generation ☑ Yes - Pass ☐ No - Fail		
27. All Doors and Access Panels To the X-Ray Beam Prevent Generation of X-Radiation ☑ Yes - Pass ☐ No - Fail	28. Some Part of the Body Can Be Inserted Through a Port Into The Primary Beam ☐ Yes ☑ No		
29. Use of X-Ray Control Necessary to Resume Operation Following Interruption ☑ Yes ☐ No	30. Means Provided to Ensure Operator Presence at the Control Area X-ray located in a public access area ☑ Yes - Pass ☐ No - Fail Or X-ray located in a non-public access area ☐ Not Required		
Rapiscan Systems Test Procedure Used: Rapiscan Systems W-0023-4	31. Scatter Block Description: ☑ Two (2) Reams Copy Paper ☐ Other, Describe:	32. Means Provided to Operator for Terminating Exposures of Greater than One-Half Second and Preventing X-rays (E-Stop Test) ☑ Yes - Pass ☐ No - Fail	
33. X-Ray Generator Settings 160.8 kVp 1.007 mA	Note: All Survey Measurements Shall be Obtained at 5 cm from All External Surfaces and at 5 cm from the Plane of All Access Ports Openings or Shroud Extension Openings. Scatter Block shall be Stacked and Positioned Centerline of Primary Beam.		
34.1. Background Radiation: 2 uR/hr	–	Maximum External Surface Dose Rate Not to Exceed 500 uR/hr at 5 cm from all external surfaces.	

34.3 Record All Readings in uR/hr Unless Otherwise Noted

Please see model specific diagram (attached)

36. Overall Condition of Lead Drapes: ☑ SAT - Pass ☐ UNSAT - Fail Description	37. Overall Condition of Machine: ☑ SAT - Pass ☐ UNSAT - Fail	38. Comments, Corrective Active Actions and/or Recommendations:

39. Surveyor Name (Print: L, F, MI) [redacted]	40. Surveyor Signature [redacted]	41. Date of Survey 9-26-2010	42. Time of Survey: 13:00

The Surveyor has inspected, tested and certified this x-ray machine is in compliance with U.S. FDA 21 CFR 1020.40 and equivalent international radiation emission leakage standards.

43. I ( ) have received a copy of this Radiation Survey Report and understand the responsibility to retain this report for State inspection.

Signature: [redacted] Date 9/27/10

This report is to certify this x-ray unit has been surveyed for radiation leakage emissions and found to be with in the regulatory radiation emission limit. The safety features, controls and indicators incorporated in the x-ray unit have been satisfactorily tested and/or inspected. The owner of this x-ray unit is responsible for State Radiation Control Agency compliance (not applicable for facilities exclusively operated by the Federal Government) and for the safe use and routine inspection, general maintenance and cleanliness of this x-ray unit. Only trained and qualified individuals should operate this equipment.

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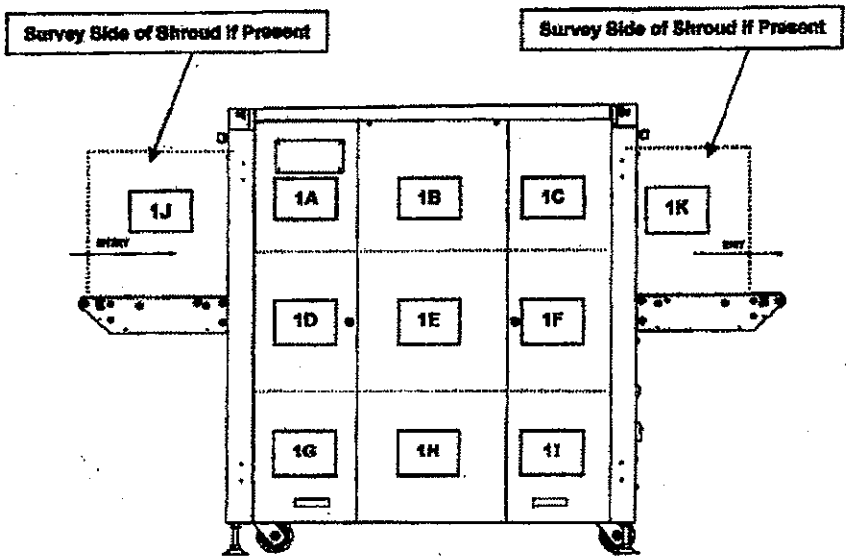
Rapiscan Systems	MODEL 620DV OR 600 SERIES EQUIVALENT RADIATION LEAKAGE SURVEY FORM	MODEL 620DV FSE SURVEY FORM	FORM FSE-R-0047-62)DV-1

FIELD SERVICE ENGINEERS RADIATION EMISSION SURVEY

United States and Canada External Surface Radiation Leakage Limit is 5.0 uSv/hr at 5 cm (500 uR/hr)

Global External Surface Radiation Leakage Limit is 1.0 uSv/hr at 5 cm (100 uR/hr at 5 cm)

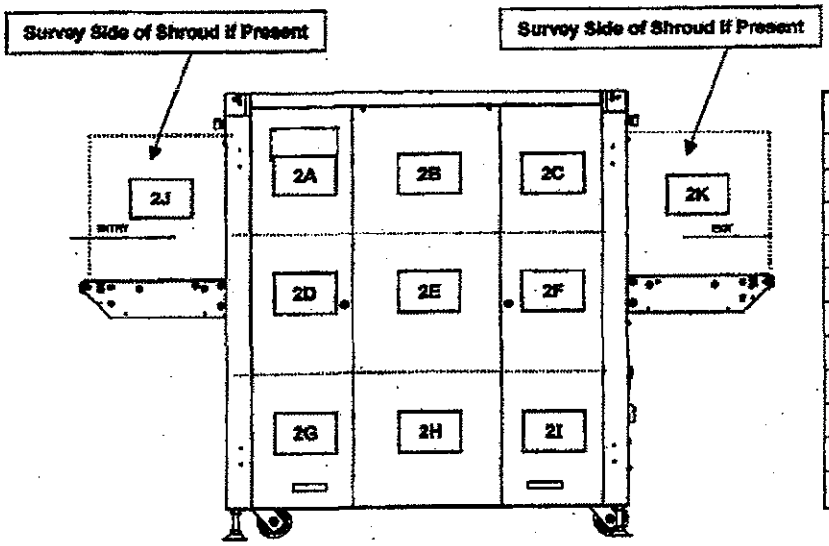
Date: 9-26-2010	Location Manufactured: (Check One) Malaysia ___ UK ✓ US	Instrument Model No: 651P
Time: 13:00	Date of Mfg: Aug 2008	Instrument Serial No: 676
Background: uSv/hr (✓ uR/hr)	Serial No: 7083504	Instrument Calibration Due: 8-2-20[illegible]
All Measurements Recorded in: ___ uSv/hr ✓ uR/hr (Check One)	Settings: 154.9 kvP .976 mA Settings: 160.8 kvP 1.007 mA	Description of Scatter Body: (Check One) ✓ Paper (2 Reams, 500 sheets each) ___ Wood Block (4" x 4" x 12" L) ___ Other ___



Operators Side

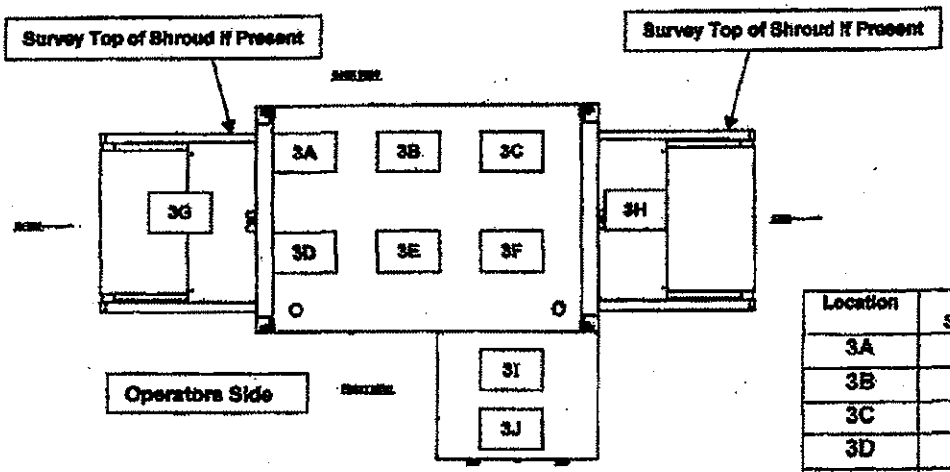
Location	Results NO Scatter Body	Results WITH Scatter Body
1A	20	26
1B	21	22
1C	21	30
1D	26	38
1E	28	15
1F	22	21
1G	14	7
1H	24	18
1I	15	20
1J	97	96
1K	52	44

FIELD SERVICE ENGINEERS RADIATION EMISSION SURVEY



Non-Operators Side

Location	Results NO Scatter Body	Results WITH Scatte Body
2A	33	19
2B	44	15
2C	34	15
2D	23	19
2E	17	28
2F	21	41
2G	23	27
2H	16	15
2I	12	9
2J	9	56
2K	33	48



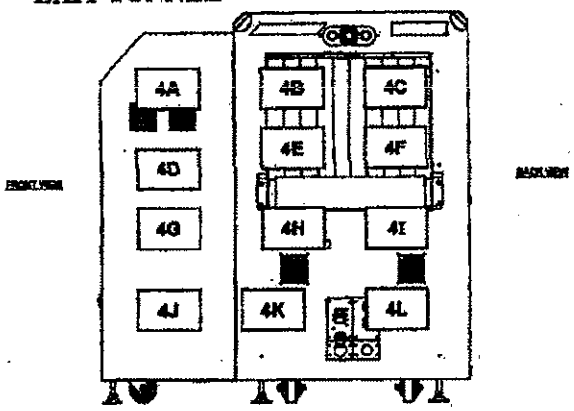
Top View

Location	Results NO Scatter Body	Results WITH Scatte Body
3A	57	55
3B	62	32
3C	47	14
3D	26	5
3E	12	6
3F	11	9
3G	14	57
3H	14	72
3I	29	21
3J	39	15

Rapiscan Systems	MODEL 620DV OR 600 SERIES EQUIVALENT RADIATION LEAKAGE SURVEY FORM	MODEL 620DV FSE SURVEY FORM	FORM FSE-R-0047-62)DV-1

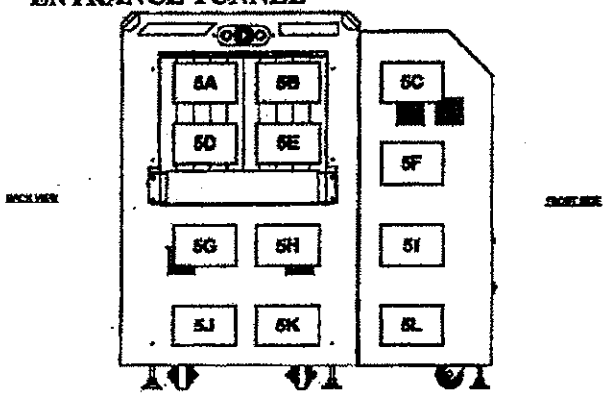
FIELD SERVICE ENGINEERS RADIATION EMISSION SURVEY

EXIT TUNNEL



Location	Results NO Scatter Body	Results WITH Scatter Body
4A	41	43
4B	29	45
4C	40	32
4D	47	49
4E	44	83
4F	30	15
4G	42	42
4H	46	38
4I	46	15
4J	39	27
4K	11	33
4L	57	12

ENTRANCE TUNNEL



Location	Results NO Scatter Body	Results WITH Scatter Body
5A	7	61
5B	39	67
5C	62	34
5D	13	14
5E	25	57
5F	51	28
5G	30	6
5H	26	42
5I	26	22
5J	23	23
5K	21	28
5L	24	21

Instructions:

- If shrouds are NOT installed, radiation measurements shall be taken 5 cm from the lead drapes.
- If shrouds are installed, radiation measurements shall be taken at the imaginary plane of the shroud opening.
- Lead Drapes should touch the conveyor. If they do not, check to verify x-ray radiation is not traveling down the convey or where the gap exists between the lead drapes and the conveyor surface.
- Survey below the conveyor up against the cabinet near any gaps, mating surfaces, and photo sensor cut-outs.

SURVEY PERFORMED BY: [redacted] DATE: 9-26-2010