Rapiscan systems	BAGGAGE/PARCEL CABINET X-RAY SYSTEM RADIATION LEAKAGE REPORT	FIELD SERVICE ENGINEERS	Form R-0588-3 9/9/09 45. RSI W.O.# 3321341 Deferred W.O.#

1. Name of Facility: Los Angeles International Airport	2. Region: West	3. Street Address: 1 World Way	
4. City: Los Angeles		5. State or Province Code: CA	6. Zip Code: 90045
7. Room No. or Other Physical Location of System: T5 In 2	8. Person Interviewed:	9. Telephone Number:	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. 0000000490 Calibration Due Date: 2/9/2011		
Manufacturer: Rapiscan Systems Inc.	13. System Model No.: 620DV	14. Single Source ☐ Dual Source ☒ Other ☐, Describe:	15. System Serial No. 7081712
16. Date of Manufacture Mo. 05 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): P6543, P2380	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 WI-0023-4	31. Scatter Block Description: ☐ Two (2) Reams Copy Paper ☒ Other, Describe: Pelican 1400 Case	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 Port Openings or Shroud Extension Openings. Scatter Block shall be Stacked and Positioned Centerline of Primary Beam.		
34.1. Background Radiation: 8 uR/hr	–	Maximum External Surface Dose Rate Not to Exceed 600 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: 9/8/2010	42. Time of Survey: 1:15pm

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. [redacted]) have received a copy of this Radiation Survey Report and understand the responsibility to retain this report for State inspection. Signature: [redacted] Date 9·8·10

This report is to certify this x-ray unit has been surveyed for radiation leakage emissions and found to be within 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.

EQ: 57433
WO: 3321341
O.O.W. - Semi-Annual PM

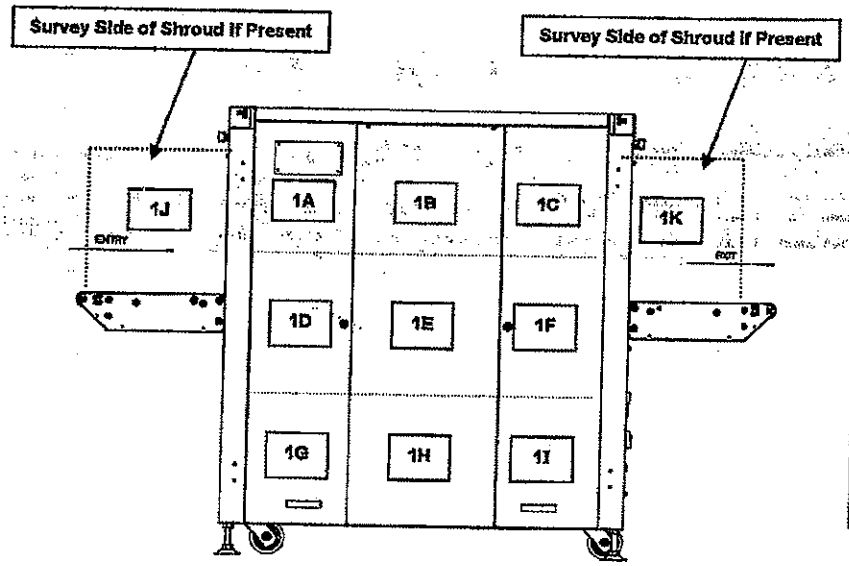
Rapiscan systems	MODEL 620DV OR 500 SERIES EQUIVALENT RADIATION LEAKAGE SURVEY FORM	MODEL 620DV FSE SURVEY FORM	FORM FSE-R-0047-620DV-1

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)

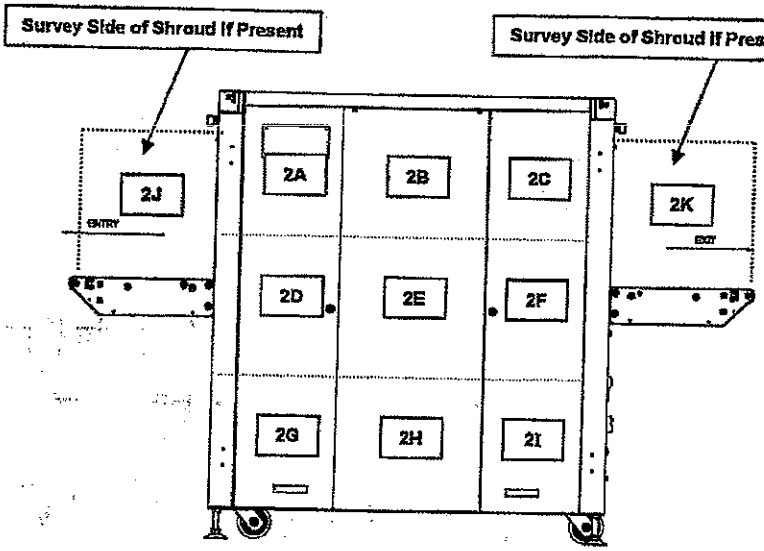
Date: 9/8/10	Location Manufactured: (Check One) ___ Malaysia ___ UK X US	Instrument Model No: [redacted]V 451P
Time: 1:20 pm	Date of Mfg: 5/2008	Instrument Serial No: [redacted] 0020000490
Background: ___ uSv/hr (8 uR/hr)	Serial No: 7081712	Instrument Calibration Due: 2/9/11
All Measurements Recorded In: ___ uSv/hr X uR/hr (Check One)	Settings: 160.8 kvP .994 mA Settings: 160.8 kvP 1.002 mA	Description of Scatter Body: (Check One) ___ Paper (2 Reams, 500 sheets each) ___ Wood Block (4" x 4" x 12" L) X Other Polycon 1400 case



Operators Side

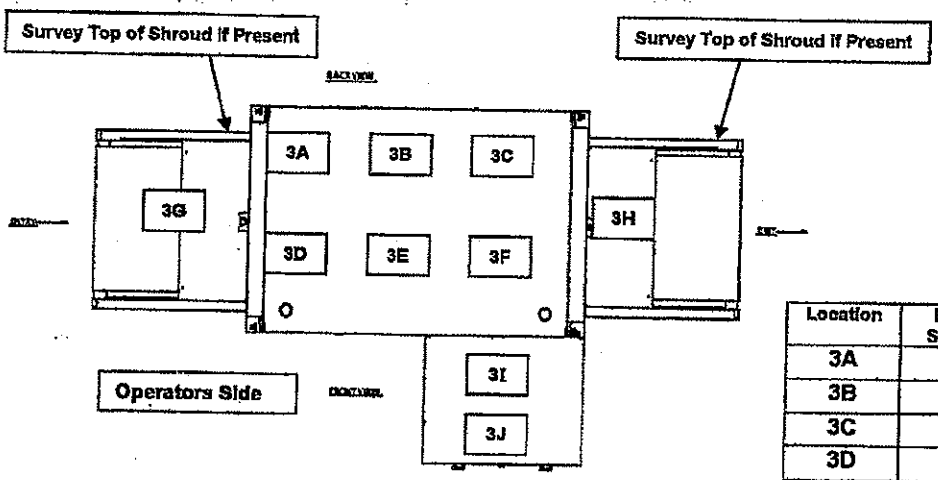
Location	Results NO Scatter Body	Results WITH Scatter Body
1A	18	21
1B	35	43
1C	20	22
1D	15	21
1E	30	36
1F	12	16
1G	8	10
1H	10	9
1I	17	23
1J	41	46
1K	62	65

FIELD SERVICE ENGINEERS RADIATION EMISSION SURVEY



Non-Operators Side

Location	Results NO Scatter Body	Results WITH Scatter Body
2A	34	36
2B	23	27
2C	13	17
2D	17	21
2E	18	20
2F	23	25
2G	15	18
2H	19	21
2I	20	23
2J	87	90
2K	146	156



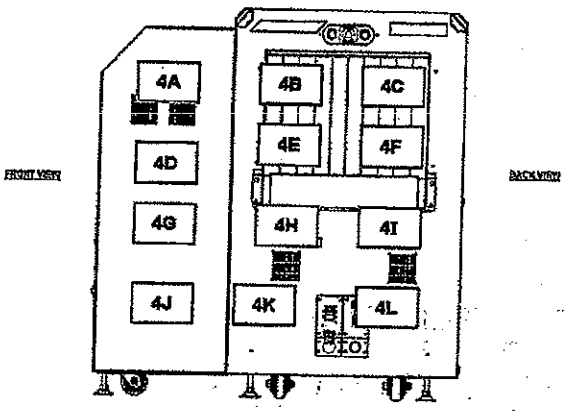
Top View

Location	Results NO Scatter Body	Results WITH Scatter Body
3A	3	6
3B	21	26
3C	18	20
3D	20	22
3E	26	30
3F	22	26
3G	35	37
3H	37	39
3I	28	32
3J	27	33

Rapiscan Systems	MODEL 620DV OR 500 SERIES EQUIVALENT RADIATION LEAKAGE SURVEY FORM	MODEL 620DV FSE SURVEY FORM	FORM FSE-R-0047-620DV-1

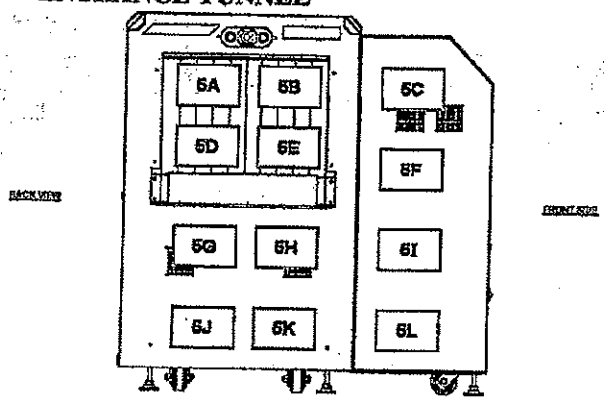
FIELD SERVICE ENGINEERS RADIATION EMISSION SURVEY

EXIT TUNNEL



Location	Results NO Scatter Body	Results WITH Scatter Body
4A	31	35
4B	54	56
4C	59	63
4D	15	18
4E	65	68
4F	60	62
4G	20	22
4H	49	52
4I	46	49
4J	14	16
4K	15	17
4L	23	25

ENTRANCE TUNNEL



Location	Results NO Scatter Body	Results WITH Scatter Body
5A	45	47
5B	46	49
5C	54	57
5D	84	89
5E	52	54
5F	52	55
5G	15	17
5H	29	29
5I	12	15
5J	15	20
5K	10	12
5L	14	13

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 conveyor 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: 9/8/10

ONE COMPANY - TOTAL SECURITY [redacted]