

1. Name of Facility <u>Ft. Lauderdale - Hollywood International Airport</u>		2. Region <u>Florida</u>		3. Street Address <u>200 Terminal Drive</u>	
4. City <u>Ft. Lauderdale</u>		5. State or Province Code <u>Florida</u>		6. Zip Code <u>33315</u>	
7. Room No. or Other Physical Location of System <u>T-1C CKPT Lane 3</u>		8. Representative		9. Telephone Number	
11. Manufacturer Information & Certification Label Present <input checked="" type="checkbox"/> Yes - Pass <input type="checkbox"/> No - Fail		12. Radiation Measuring Instrument: Model: <u>Thermo Radeye</u> Serial No. <u>01015</u> Calibration Due Date: <u>3/18/11</u> FSE Shall Attach Copy of Calibration Certificate to This Form			
Manufacturer <u>Rapiscan Systems Inc.</u>		13. System Model No. <u>620DV</u>		14. Single Source <input type="checkbox"/> Dual Source <input checked="" type="checkbox"/>	
16. Date of Manufacture Mo. Yr. <u>Jan 2009</u>		18. Facility Owner Has been notified of responsibility for "Application for Registration" with their State Radiation Control Agency <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
17. X-ray Tube Serial Number(s) <u>P6479 P6544</u>		20. Operator Instructions Available <input checked="" type="checkbox"/> Yes - Pass <input type="checkbox"/> No - Fail		21. Maintenance Schedule Available <input checked="" type="checkbox"/> Yes - Pass <input type="checkbox"/> No - Fail	
22. Warning Label Present at Controls Stating: "Caution: X-Rays Produced When Energized" <input checked="" type="checkbox"/> Yes - Pass <input type="checkbox"/> 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" <input checked="" type="checkbox"/> Yes - Pass <input type="checkbox"/> No - Fail		24. Two Indicators Labeled "X-Ray On" Present at Controls (including software user interface) <input checked="" type="checkbox"/> Yes - Pass <input type="checkbox"/> No - Fail	
25. At Least One Indicator, Marked "X-Ray On" is Visible from Each Port <input checked="" type="checkbox"/> Yes - Pass <input type="checkbox"/> No - Fail		26. Captured Key: The Key for the Key Actuated Control Cannot be Removed in Any Mode that Allows X-Ray Generation <input checked="" type="checkbox"/> Yes - Pass <input type="checkbox"/> No - Fail			
27. All Doors and Access Panels To the X-Ray Beam Prevent Generation of X-Radiation <input checked="" type="checkbox"/> Yes - Pass <input type="checkbox"/> No - Fail		28. Some Part of the Body Can Be Inserted Through a Port Into The Primary Beam <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
29. Use of X-Ray Control Necessary to Resume Operation Following Interruption <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		30. Means Provided to Ensure Operator Presence at the Control Area X-ray located in a public access area <input checked="" type="checkbox"/> Yes - Pass <input type="checkbox"/> No - Fail Or X-ray located in a non-public access area <input type="checkbox"/> Not Required			
Rapiscan Systems Test Procedure Used: Rapiscan Systems <u>WI-0023-4</u>		31. Scatter Block Description: <input type="checkbox"/> Two (2) Reams Copy Paper <input checked="" type="checkbox"/> Other, Describe: <u>Plastic Bins</u>		32. Means Provided to Operator for Terminating Exposures of Greater than One-Half Second and Preventing X-rays (E-Stop Test) <input checked="" type="checkbox"/> Yes - Pass <input type="checkbox"/> No - Fail	
33. X-Ray Generator Settings <u>161 kVp 1.0 mA</u> <u>161 kVp 1.0 mA</u>		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: <u>3</u> 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					
<i>Please see model specific diagram (attached)</i>					
36. Overall Condition of Lead Drapes: <input checked="" type="checkbox"/> SAT - Pass <input type="checkbox"/> UNSAT - Fail Description		37. Overall Condition of Machine: <input checked="" type="checkbox"/> SAT - Pass <input type="checkbox"/> UNSAT - Fail		38. Comments, Corrective Active Actions and/or Recommendations:	
39. Supervisor Name (Print, L. F. M.)		40. Surveyor Signature		41. Date of Survey <u>3/8/11</u>	
42. Time of Survey: <u>2000</u>		43. I () have received a copy of this Radiation Survey Report and understand the responsibility to retain this report for State inspection. Signature: <u>3-8-11</u>			
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.					

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.

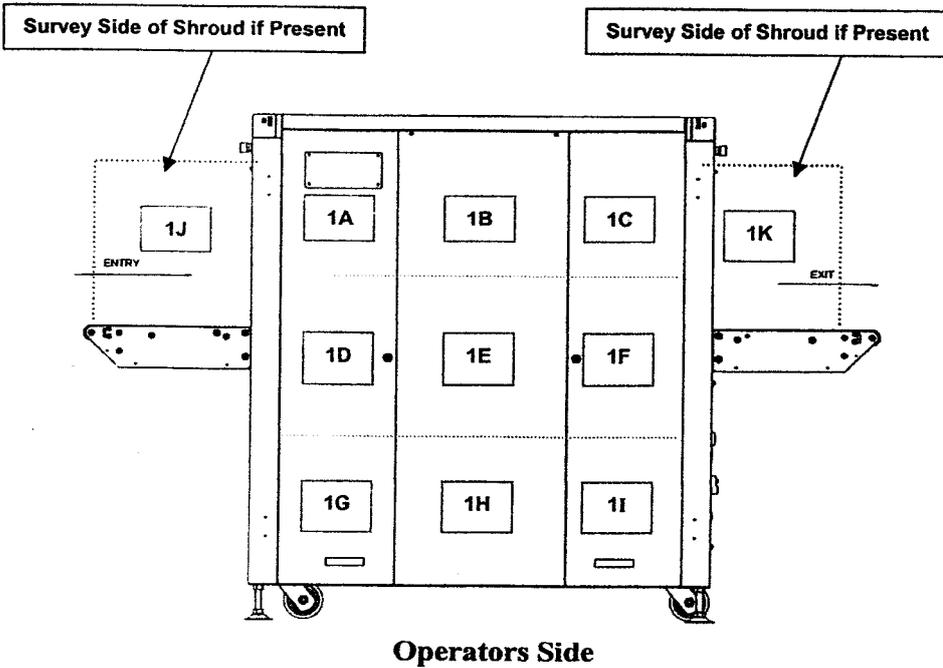
w/lo 3712721

	MODEL 620DV OR 500 SERIES EQUIVALENT RADIATION LEAKAGE SURVEY FORM	MODEL 620DV FSE SURVEY FORM	FORM FSE-R-0047-620DV-1
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FIELD SERVICE ENGINEERS RADIATION EMISSION SURVEY

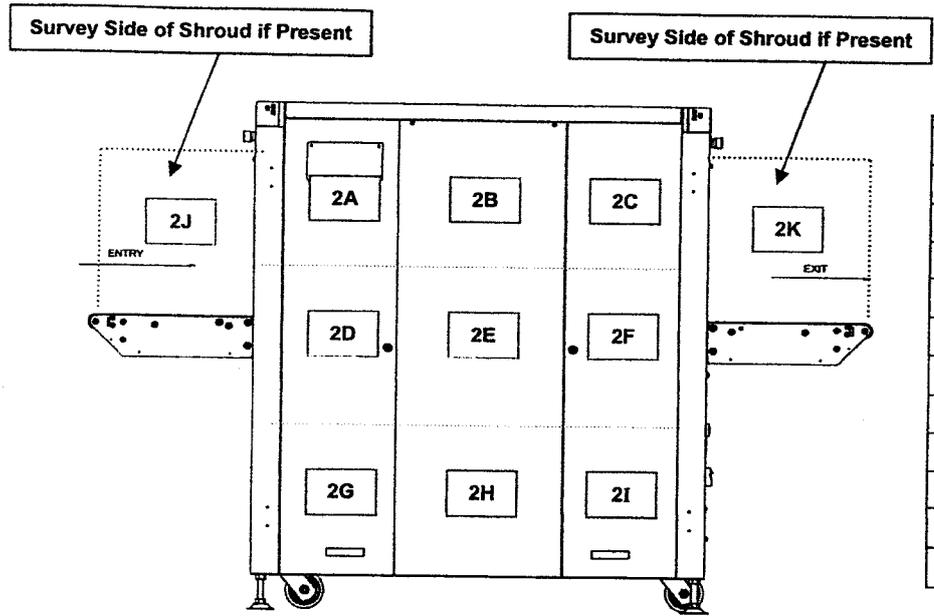
United States and Canada External Surface Radiation Leakage Limit is 5.0 uSv/hr at 5 cm (500 uR/hr)
 Global External Surface Radiation Leakage Limit is 1.0 uSv/hr at 5 cm (100 uR/hr at 5 cm)

Date: <u>3/8/11</u>	Location Manufactured: (Check One) Malaysia <input type="checkbox"/> UK <input type="checkbox"/> <u>US</u> <input checked="" type="checkbox"/>	Instrument Model No: <u>Thermo Scientific RADEYE PRD-ER</u>
Time: <u>2000</u>	Date of Mfg: <u>Jan 2009</u>	Instrument Serial No: <u>01015</u>
Background: <u>3</u> uSv/hr (<u>3</u> uR/hr)	Serial No: <u>7090303</u>	Instrument Calibration Due: <u>3/18/11</u>
All Measurements Recorded In: <input type="checkbox"/> uSv/hr <input checked="" type="checkbox"/> uR/hr (Check One)	Settings: <u>161</u> kvP <u>1.0</u> mA Settings: <u>161</u> kvP <u>1.0</u> mA	Description of Scatter Body: (Check One) <input type="checkbox"/> Paper (2 Reams, 500 sheets each) <input type="checkbox"/> Wood Block (4" x 4" x 12" L) <input checked="" type="checkbox"/> Other <u>Plastic Bins</u>



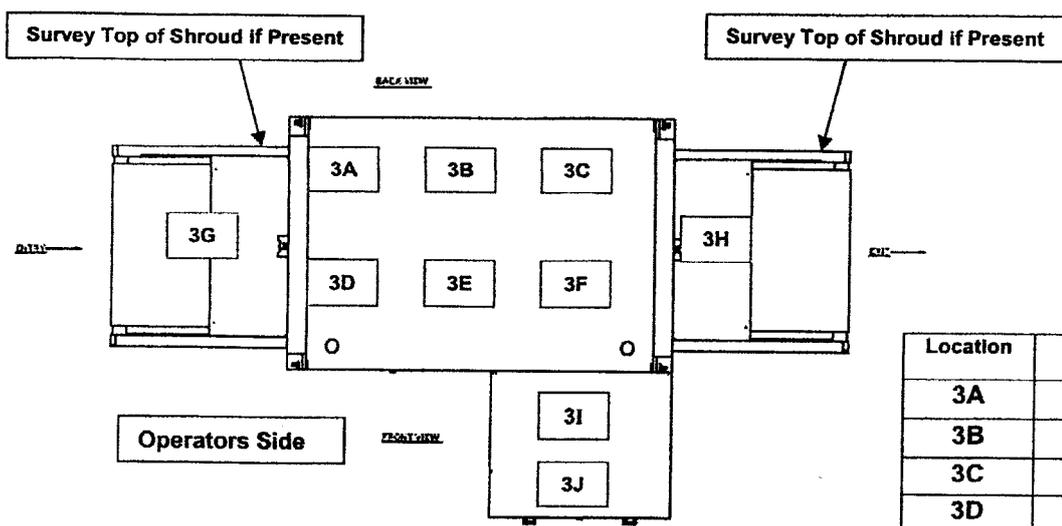
Location	Results NO Scatter Body	Results WITH Scatter Body
1A	12	12
1B	8	12
1C	5	10
1D	5	5
1E	19	17
1F	14	11
1G	12	5
1H	13	13
1I	5	12
1J	26	45
1K	27	92

FIELD SERVICE ENGINEERS RADIATION EMISSION SURVEY



Non-Operators Side

Location	Results NO Scatter Body	Results WITH Scatter Body
2A	9	18
2B	26	25
2C	5	6
2D	11	20
2E	23	23
2F	11	12
2G	11	12
2H	4	12
2I	11	4
2J	24	51
2K	28	35



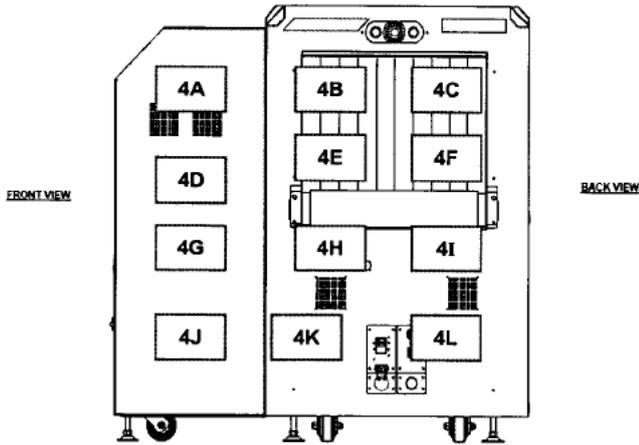
Operators Side

Top View

Location	Results NO Scatter Body	Results WITH Scatter Body
3A	12	16
3B	10	19
3C	12	13
3D	14	9
3E	16	22
3F	12	5
3G	16	21
3H	18	23
3I	29	15
3J	14	8

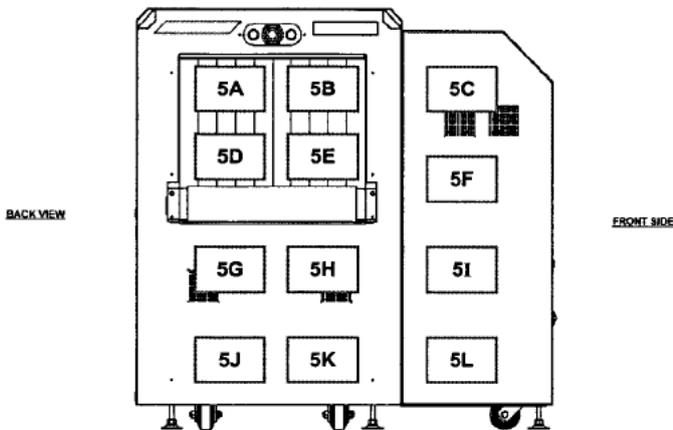
FIELD SERVICE ENGINEERS RADIATION EMISSION SURVEY

EXIT TUNNEL



Location	Results NO Scatter Body	Results WITH Scatter Body
4A	31	30
4B	29	43
4C	25	47
4D	16	14
4E	32	76
4F	26	44
4G	19	16
4H	21	42
4I	24	27
4J	5	17
4K	9	8
4L	8	17

ENTRANCE TUNNEL



Location	Results NO Scatter Body	Results WITH Scatter Body
5A	42	75
5B	32	65
5C	32	28
5D	32	55
5E	22	54
5F	27	30
5G	17	17
5H	17	21
5I	17	15
5J	16	12
5K	9	10
5L	6	15

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: _____ DATE: 3/8/11