APPENDIX A

This certifies that all Site Acceptance Testing (SAT) have been completed for the Rapiscan product described below. All inspections and tests have been satisfactorily completed, and the product is ready for use. Test records are on file and available for review on request.

Contract Number: HSTS04-07-D-DEP346		
Airport Code: JFK	Site Location: John F. Kennedy Int'l Airport	
Delivery Order Number:	System Serial Number: 7091211	
AT Model Type: 620 DVAT	AT Software version number:: 2009.521.3001.144	
System TSA Property Tag Number: 407643	Terminal/Checkpoint/Lane Location: Tiam 7 Main 1 L4 (4H)	
High-Speed TSA Property Tag Number : greentag	Roller table TSA Property Tag Number : greentag	
INSTALLATION AND VISUAL INSPECTION	**ACCEPT**	**DECLINE**
Verify the following physical components have been installed on the system against the current BOM and CI List:		
Chassis Assy, RAP 6XX-DV, WBS; P/N **2311376**	☑	☐
Conveyor Frame, Entry/Exit, 27", 620DV; P/N **4031642**	☑	☐
Vertical X-ray Generator Assy, 180Kv; P/N **TA55130/180-H**	☑	☐
Curtain Strip, X22; P/N **4042022**	☑	☐
Monitor, LCD, 19" Flat Panel Display; P/N **1310865**	☑	☐
Switch, Footmat; P/N **131049**	☑	☐
Verify UL Certification is present on Machine Identification Label	☑	☐
Test materials are assembled and ready.	☑	☐
Test Readiness Review has been submitted to TSA.	☑	☐
RADIATION SAFETY	**ACCEPT**	**DECLINE**
The measured level of radiation at all four sides of the AT unit's radiation cabinet does not exceed 0.5 mR/hr (500 μR/hr). The source of the criterion is the FDA 21 CFR 1020.40, Cabinet x-ray systems.	☑	☐
SITE PARAMETER SETTINGS	**ACCEPT**	**DECLINE**
Verify system software version	☑	☐
Software version:	2009.521.3001.144	
Reset Bag Counter: Ø	☑	☐
If Bag counter not reset, record bag count here:		
Verify and set Airport Code setting	☑	☐
Airport Code:	JFK	
Verify and set Site Location setting	☑	☐
Site Location:	John F. Kennedy Int'l Airport	
Verify and set system date and time settings	☑	☐
Verify and set generator settings	☑	☐
Verify and set main conveyor belt direction	☑	☐
Verify and adjust system generator and detectors settings	☑	☐
(160 ± 1 Kv / 1 ± 0.5 mA expected) Generator Anode Current:	160KV, 1.000 mA	
FUNCTIONAL TEST AND VERIFICATION – Procedure I	**ACCEPT**	**DECLINE**
Verify logon to AT system is successful	☑	☐
Verify screen displays scan mode upon login	☑	☐
Verify screen displays Image review mode	☑	☐
Verify screen displays Image Archive mode	☑	☐
Verify that report can be downloaded to a flash key	☑	☐
FUNCTIONAL TEST AND VERIFICATION – Procedure II	**ACCEPT**	**DECLINE**
Verify keys on keypad function correctly via control panel test.	☑	☐
Verify Search indicators and buzzer are functional	☑	☐

Form R-0534-3

Verify X-ray indicators are functional	☑	☐
Verify footmat operation.	☑	☐
Verify that all E-stops are functional	☑	☐
Verify that High Speed Conveyor stops when E-stop is pressed.	☑	☐
Verify that no X-rays are created when no baggage is in the tunnel	☑	☐
Verify that when the system is turned on the key can not be removed.	☑	☐
FUNCTIONAL TEST AND VERIFICATION – Procedure III	**ACCEPT**	**DECLINE**
Verify that High Speed conveyor and Extended hood are installed	☑	☐
High Speed Conveyor TSA Property Tag No.:		
Verify that entrance roller table/s are installed and attached to the system.	☑	☐
Entrance Roller table(s) TSA Property Tag No.:		
Verify that the exit roller table/s are installed and attached to the system or High Speed Conveyor.	☑	☐
Exit Roller table(s) TSA Property Tag No.:		
Verify that HSC moves in forward direction (Towards the exit)	☑	☐

SYSTEM PERFORMANCE VERIFICATION – Procedure I	MIN SCORE	VERTICAL VIEW		HORIZONTAL VIEW	
		ACCEPT	DECLINE	ACCEPT	DECLINE
Test 1 – Wire Resolution	4	☑	☐	☑	☐
Test 2 – Useful Penetration	5	☑	☐	☑	☐
Test 3 – Spatial Resolution	6	☑	☐	☑	☐
Test 4 – Simple Penetration	3	☑	☐	☑	☐
Test 5 – Thin Organic Imaging	2	☑	☐	☑	☐
Test 6 – IQI Sensitivity Test	8	☑	☐	☑	☐
Test 7 – Organic / Inorganic Differentiation	1	☑	☐	☑	☐
Test 8 – Organic Differentiation	2	☑	☐	☑	☐
Test 9a – Useful Organic Differentiation	1	☑	☐	☑	☐
Test 9b – Useful Organic Differentiation	1	☑	☐	☑	☐
Test 9c – Useful Organic Differentiation	0	☑	☐	☑	☐
Verify that the AT system meets or exceeds the minimum levels of performance as specified in ASTM standard F792-01.		☑	☐	☑	☐
		ACCEPT		**DECLINE**	
Verify during ASTM Testing that Image Processing Keys are present and function.		☑		☐	

Exceptions, Explanation or Comment: Std Configuration. No additional Roller tables installed at Exit side. Installed w/o upgrade 144.

[redacted] 10 15 2009
Rapiscan Authorized Signature Date

[redacted] 10-15-09
TSA Representative Date

Form R-0534-3

RADIATION SURVEY
APPENDIX B

Department of Transportation Federal Aviation Administration	X-RAY SYSTEM RADIATION LEAKAGE REPORT (BAGGAGE INSPECTION) (Require by 14 CRF 108.17, 14 CRF	FIELD TEST SERIAL NO.	Form Approved OMB No. 2120-0098

	1.1 Name and Address of Facility	Name of Facility (10.69): JOHN F. KENNEDY INT'L	FDA Region: NE	St. No., R.R. or Airport/Airport (10.60): BRITISH AIRWAYS	
		City (10.70): JAMAICA		State Code: NY	Zip Code: 11430
	and Specific Location of X-ray System	Room No. or Other Location of System (10.32): TERM 7 MAIN LANE 4 (4H)	Person Interview (10.54): [redacted]	Telephone No.: [redacted]	
		Certification Label Present: Yes	Instruments: (type and serial number) THOMAS SCIENTIFIC	Model: Radeye GRID-EXPO	Serial No.: 156
01	1.2 Manufacture And Product ID	A. Manufacture (Responsible Firm): Rapiscan Systems	B. MF. Code	C. System Model No. and/or Name: RAP 620 DVAT	
		D. Unique I.D.	E. System Serial No.: 7091211		
		F. Date of Manufacture: Mo. 03 Yr. 2009	1.4 Operator Instructions Available: Yes	1.5 Maintenance Schedule Available: Yes	
	2.0 Warning Labels Indicators	2.1 Warning Label Present at Controls Stating: "Caution: X-Rays Produced When Energized": Yes	2.2 Warning Labels Present at Ports Stating: "Caution: Do Not Insert Any Part of the Body When System is Energized, X-Ray Hazard": Yes	2.3 Two Indicators Labeled "X-Ray On" Present at Controls (One May Be Labeled "mA Meter"): Yes	
02		2.4 At Least One Indicator, X-Ray Marked "X-Ray On", Visible from Each Port, Door, And Access Panel: Yes	3.0 Interlocks	3.1 "Captured Key" Control: Yes	
	3.2 Door Safety Inter-Locks	A. Minimum Number of Interlocks Visible At Any One Door: NO	3.3 Prevention of X-Radiation By Inter-locks	A. All Doors and Access Panels That Were Tested Prevent Generation of X-Radiation: Yes	
		B. At Least One Interlock Dependent on No Moving Part Except Door: NO		B. Use of X-Ray Control Necessary to Resume Operation Following Interruption: Yes	
	4.0 Ports and/or Apertures	4.1 Some Part of the Body Can Be Inserted Through a Port into The Primary Beam: No		4.2 Some Part of the Body Can Be Inserted into the Aperture: No	
	6.0 Baggage Inspection Systems	6.1 Means Provided to Ensure Operator Presence at the Control Area: Yes		6.2 Means Provided to Operator for Terminating Exposures of Greater than One-Half Second and Preventing: Yes	
03	7.0 Leakage Radiation	Specific Test Procedure Used: 04	7.1 Scatter Block Description: 2 reams of Copy Paper		
05	7.2 Technical Factors	160 kVp	1.000 mA		

7.3 Location	Exposure Levels	Non-Continuously Activated Systems Only Number of Exposures Initiated	Location	Exposure Levels	Non-Continuously Activated Systems Only Number of Exposures Initiated
05	0.055 (1/P) mR/hr	Exp	06	0.017 (CP) mR/hr	exp
	0.066 (0/P) mR/hr	Exp		0.018 (Platform) mR/hr	exp
	0.019 (4/H) mR/hr	exp		— NA — mR/hr	exp
	0.016 (R/H) mR/hr	exp		— NA — mR/hr	exp

07	Reasonable Number of Exposures That May Be Initiated in One Hour	OR	Duty Cycle of System Indicated As a Percentage of One Hour: 100%
08	8.0 Additional Information 8.1		
09	8.2		
10	8.3		

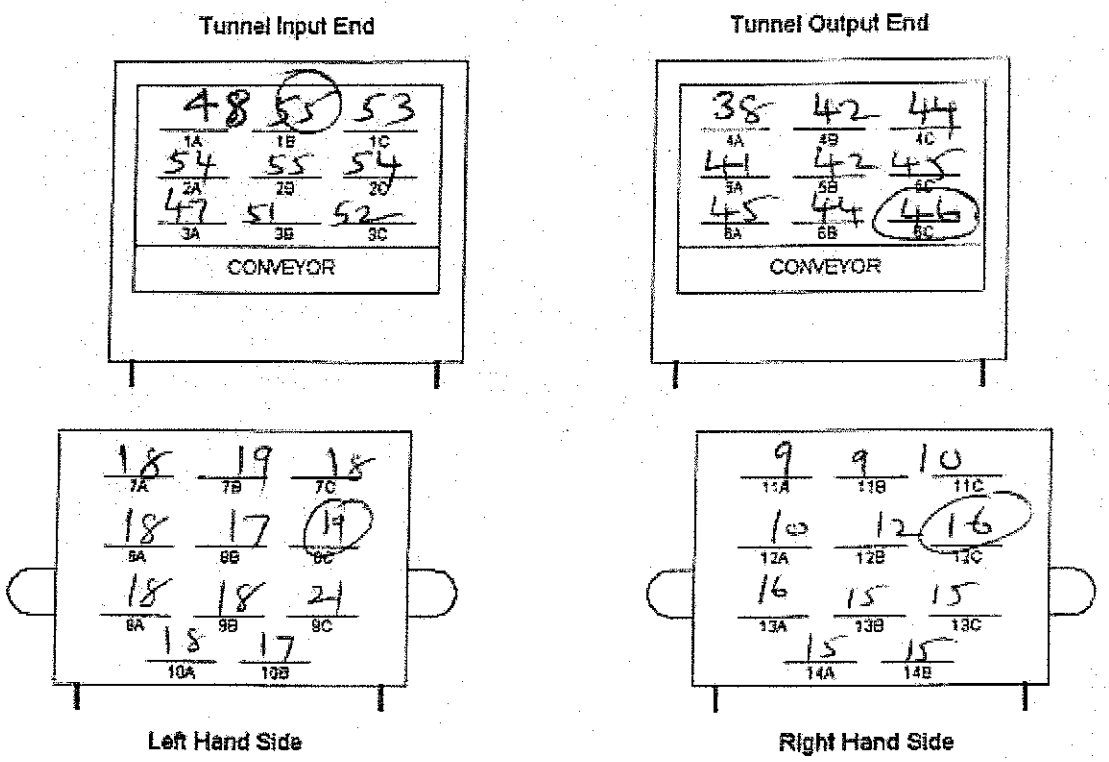
Remarks: (ANANTH IYER - RAPISCAN) 10-15-2009

Form R-0534-3

(S-N 7091211)
620 dwat

4H

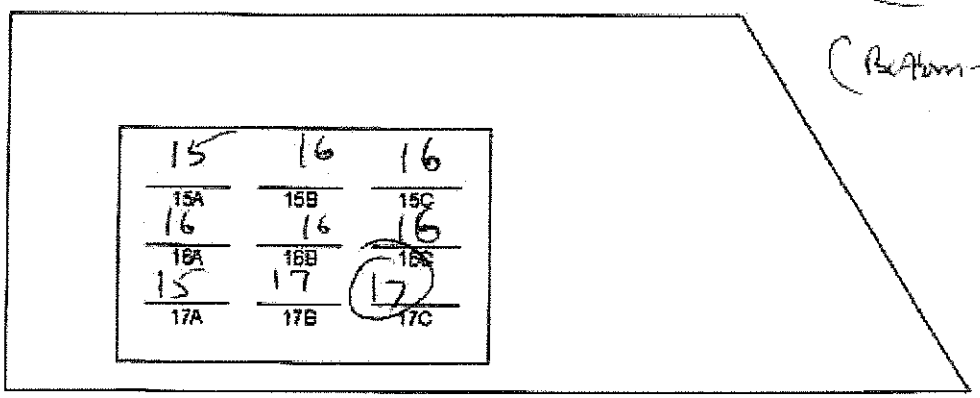
RADIATION SURVEY POSITIONS DIAGRAM
APPENDIX F



Extended Hood Window

(Top = 17 microrem)

(Bottom = 18 microrem)



Form R-0534-3