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Civil Division, Federal Programs Branch

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April 9, 2013

Via Federal Express

Marc Rotenberg Electronic Privacy Information Center 1718 Connecticut Ave., NW Suite 200 Washington, D.C. 20009

RE: Electronic Privacy Information Center v. Transportation Security Administration, Case No. 11-0290 (D.D.C.).

Dear Mr. Rotenberg,

Enclosed, please find a revised release of pages 404-421, pursuant to the Court's order.

Sincerely,

Joseph Mead

Encl.

TRANSPORTATION SECURITY ADMINISTRATION



Advanced Imaging Technology ****

Automated Target Recognition July 2011

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Background

- In the summer of 2010, TSA issued a statement of work to qualified AIT vendors for the development and implementation of an Automated Target Recognition (ATR) solution
- In the fall of 2010, TSA completed laboratory trials of the L-3 for airport trials Provision ATR and determined the detection rate to be suitable
- February 2011 the TSA began field testing of ATR at three locations; Las Vegas, Atlanta and Washington Reagan
- This presentation provides background on ATR functionality and insight on the testing results from airport pilots

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What is Automatic Target Recognition:

- Software that enables the AIT to automatically identify anomalies on passengers entering the security checkpoint
- Employs imaging an<u>alysis techniques to identify</u> weapons, explosives, and other contraband without recognition software to uncover potential hidden anomalies based on the need for an imaging officer
- or better operational effectiveness and suitability Full implementation of ATR will be based on equal performance compared to image operators

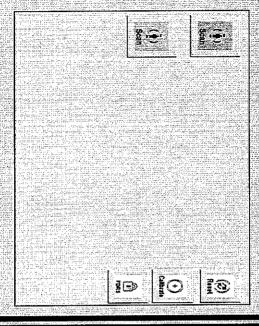
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How will ATR be displayed?

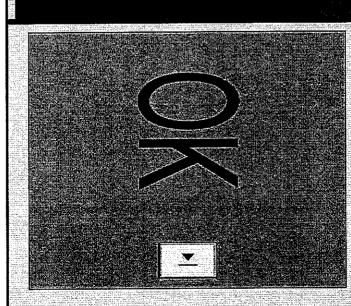
Operators are presented with a display that allows for the selection of male (blue) /female (pink) passenger screening



Separate ATR detection algorithms are used to reduce false alarms based on the passenger's gender

If anomalies are discovered, a screen will signify specific location(s) on the passenger where anomalies ARE detected. Image is the same regardless of gender.

If no anomalies are discovered, a screen will appear signifying that anomalies are NOT detected.



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Operational Test & Evaluation (OT&E)

OT&E consisted of:

- Observations of TSOs using the AIT w/ATR to screen actual passengers
- Baseline Detection Comparison of AIT w/IO to AIT w/ATR
- Burn-in period, in which the test team reviewed data collection effectively procedures to ensure that test team members collected the data
- Demonstration of system reliability in airport environment to include operation availability and
- Evaluation of throughput and other operational suitability issues
- Evaluation of system safeguards for passenger privacy

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Airport OT&E

	Pi	Pilot Details	
Aliport	Schedule	Duration of Pilot	Scope
Las Vegas International Airport (LAS)	February 01 2010 – March 15, 2010	36 days	2 L-3 AIT Systems (with and without ATR) were evaluated
Ronald Reagan National Airport (DCA)	February 05 2010 – March 19, 2010	36 days	2 L-3 AIT Systems (with and without ATR) were evaluated
Atlanta International Airport (ATL)	February 08 2010 March 22, 2010	36 days	2 L-3 AIT Systems (with and without ATR) were evaluated

Demonstrate Reliability	Demonstrate Automated Detection	Demonstrate operational utility	
Demonstrate system operation availability in airport environment.	Demonstrate concept of operations with automated detection capability.	Demonstrate operational effectiveness and suitability in the field environment.	Goals

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Operational Performance Metrics

Define criteria for operational suitability and effectiveness determination of ATR-equipped AIT units

- **Mission Performance:** Does the AIT automatically detect and display possible threats concealed on passengers?
- **Availability:** Is the AIT sufficiently available in potentially deployable environments to process passengers:
- conduct screening operations? TSOs utilizing the AIT system at airport checkpoints successfully Human-Systems Integration (HSI): Can available trained
- **Information Assurance:** Does the AIT prevent unauthorized system use and access to the system reporting data and imagery?
- equipment and processes? **Interoperability:** Is the AIT interoperable with other checkpoint

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Key Performance Parameters (KPPs)

KPPs are those attributes of a system that are considered critical to operational capability

Result Identified in System Evaluation Report

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Effectiveness

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Effectiveness

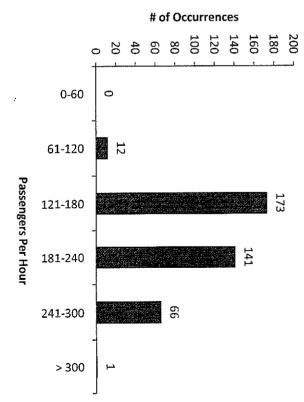
Detection - ATR vs. IO

(b)(3), 49 U.S.C. § 114(r)

Reliability - Operational Availability

98.9%	18.3	1688.6	Overall
99.5%	2.9	563.5	LAS
99.7%	1.5	566.8	DCA
97.5%	13.9	558.3	ATL
A_0	Total Downtime Hours	Total Test Hours	Airport

Throughput - Passengers Per Hour



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onfirmed Benefits of AIT with ATR

- Allows for reduction of manpower requirements through the elimination of the lO position
- Reduces privacy concerns, since human imagery is not reviewed by TSOs

(b)(3), 49 U.S.C. § 114

- Reduces operator training requirements from days to hours
- Reduces scan time, increasing throughput from 100 to 190+ passengers screened per hour

(b)(3), 49 U.S.C. § 114(r)

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DHS DOT&E Summary

Letter of Assessment (LOA) findings:

- system meeting all Key Performance Parameters (KPPs)." System with ATR to be effective and suitable as tested based on the "The DOT&E concludes the L3 Communications ProVision 100 AIT
- "DOT&E concurs with the TSA findings of operationally effective and adequately followed the approved Operational Test Plan. operationally suitable and finds the execution of the FOT&E
- satisfied as tested." "All Key Performance Parameters relative to ATR implementation were
- "DOT&E must note and commend the considerable efforts and level of elements, including the T&E, program management, and user cooperation and collaboration observed amongst the various TSA communities, with respect to the ATR initiative."

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Next Steps for ATR

- Complete L3 fleet upgrade to ATR within 80 days once formal DHS approval received
- Explore additional privacy protections for imaging technology
- Test additional ATR-equipped AIT systems from vendors

(b)(3), 49 U.S.C. § 114

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Continuous Improvement of ATR

OST will execute a test excursion in July 2011 to

at the three original ATR

OT&E locations: ATL, DCA and LAS

b)(3), 49

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Funding

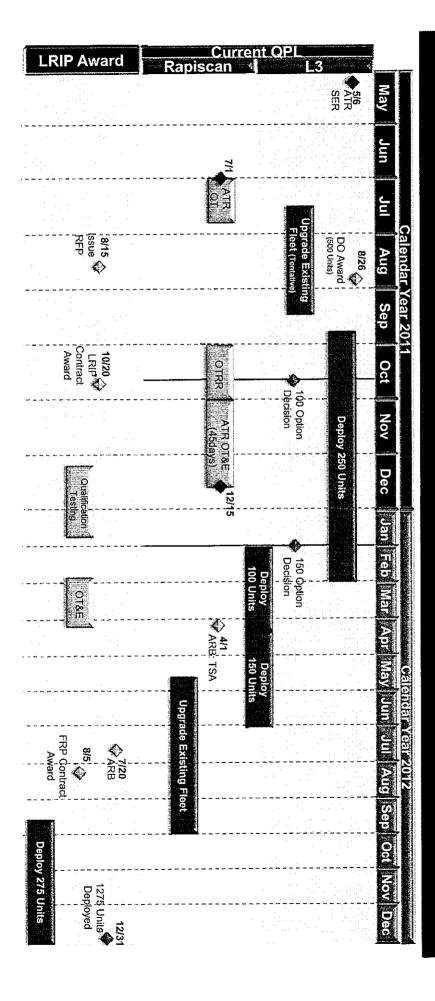
- 500 units procured to date
- \$86.3M awarded for test and production units, shipping, OEM installation, and training classes
- \$7.8M awarded for ATR upgrades
- FY11 Budget \$87.5M ~ 500 units
- FY12 Budget \$48.1M ~ 275 units

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Schedule



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Program Milestone 🌘 Testing milestone 🏶 Deployment Milestone 🚱 Acquisitions Milestone

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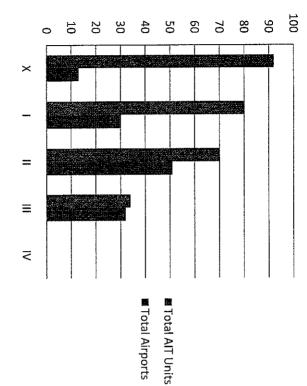
Deployment Approach

- Upgrade existing AIT units to ATR (July-Sept; limited to L3 initially)
- Install new ATR-equipped AIT units
- First wave of 250 units
- Begin deployments in August, complete by December/January
- First deployments at airports where site preparation is complete
- Update drawings to incorporate additional ATR units into airports with existing AIT units
- Maintain brand consistency at hub and spoke airports for training and maintenance impacts
- Second wave of AIT Deployments
- Continue with deployments to airports that have already received AIT units in
- Removal of WTMD required for some of the deployments in this wave

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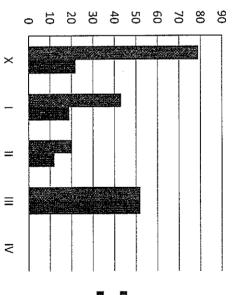
Deployment

ATR Deployments (August-January)



Additional AIT Deployments (January-July)

(includes removal of WTMD with some deployment in this group)



■ Total Airports

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