

Rapiscan Systems Advanced Imaging Technology Qualification Data Package

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Torrance, CA 90503**

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Automatic Target Recognition QDP (Qualification
Data Package)
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1.0 Introduction

The Rapiscan Systems Secure 1000 Single Pose AIT ATR system is based on the Rapiscan Systems AT1 Secure 1000 Single Pose AIT hardware and software design.

Rapiscan AIT ATR system software includes Automatic Target Recognition capabilities to assist TSO in (b)(3), 49 USC 114(r) threat detection while screening passengers.

2.0 Scope

The purpose of this document is to provide substantiation and supporting documents to AIT ATR requirements as specified in Functional Requirements Document for an Advanced Imaging Technology System with Automatic Target Recognition for Checkpoint Operations, [REDACTED] Version 1.1.

3.0 Rapiscan Test Team

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4.0 Reference Document

Functional Requirements Document for an Advanced Imaging Technology System with Automatic Target Recognition for Checkpoint Operations, May 03, 2010, Version 1.1

5.0 Glossary of Acronyms and Terms

Acronyms

FAT&E	First Article Testing and Evaluation
AIT	Advanced Imaging Technology
ATR	Automatic Target Recognition
CI	Configuration Item
DT&E	Developmental Test and Evaluation
IT&E	Independent Test and Evaluation
QDP	Qualification Data Package
TSA	Transportation Security Administration
TSL	Transportation Security Laboratory
TSO	Transportation Security Officer

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6.0 Rapiscan Secure 1000 Single Pose AIT System Configuration

- Model number(s) of equipment tested: Secure 1000 Single Pose
- Serial number(s) of equipment tested: (b) (4)
- Software version(s):
- ATR Algorithm version #

Part Number	Description
(b) (4)	

Table 1: Secure 1000 Single Pose System Hardware Configuration Items

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RAPISCAN SYSTEMS

CERTIFICATE OF CONFORMANCE

RAPISCAN SYSTEMS certifies that the Secure 1000 Single Pose AIT ATR system complies with Functional Requirements Document for an Advanced Imaging Technology System with Automatic Target Recognition for Checkpoint Operations, May 03, 2010, Version 1.1 requirements with Level "A" substantiation.

(b)(4), (b)(6)

November 12th, 2010

Date

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RAPISCAN SYSTEMS

CERTIFICATE OF CONFORMANCE

RAPISCAN SYSTEMS certifies that the Secure 1000 Single Pose AIT ATR system complies with Functional Requirements Document for an Advanced Imaging Technology System with Automatic Target Recognition for Checkpoint Operations, May 03, 2010, Version 1.1 requirements with Level "B" substantiation (b) (4)

(b)(4), (b)(6)

November 12th, 2010

Date

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0 Single Pose Test Procedures for ATR Requirements

f Secure 1000 Single Pose "Shall" Compliancy and Interpretation of a "Pass"



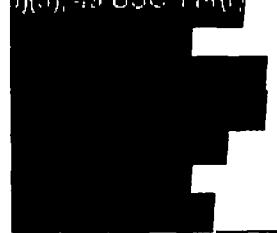
l the test cases and procedures that Rapiscan Systems has developed to validate compliancy of the submitted hardware and /stem as previously stated) against the AIT ATR Screening System requirements.

(denoted herein as a "Shall" statement) has been tested and validated individually. Rapiscan Systems reports a "Pass" only if each "Shall" is successful against the TSA defined criteria. In some "Shall" cases there are multiple sub-test cases, in these t is only granted for this "Shall" case if all associated sub-test cases are successful.

Test Description	Level	Test Results	Pass/Fail
19 USC 114(r) (b) (4)	(b) (4)	(b) (4)	(b) (4)

	Test Description	Level	Test Results	Pass/Fail
9 USC 114(r)	(b)(3), (b)(4), 49 U.S.C. 114(r)			
9 USC 114(r)				

ve Security Information that is controlled under 49 CFR parts 15 and 1520. No part of this record may be disclosed to persons without a "need to 1520 except with the written permission of the Administrator of the Transportation Security Administration or the Secretary of Transportation. enalty or other action. For U.S. government agencies, public disclosure is governed by 5 U.S.C. 552 and 49 CFR parts 15 and 1520.

Item	Test Description	Level	Test Results	Pass/ Fail
Item with ATR shall (4) detect the (b)(3), 49 USC 114(r) 	(b)(3), (b)(4), 49 U.S.C. 114(r)			
Item with ATR shall (5) detect the (b)(3), 49 USC 114(r) 				
Item with ATR shall (6) detect the (b)(3), 49 USC 114(r) 				

Item	Test Description	Level	Test Results	Pass/ Fail
<p>Item with ATR shall (7) be capable the location of all (b)(3), 49 USC 114(i) detected on the body (b)(3), 49 USC 114(i) [REDACTED]</p>	(b)(3), (b)(4), 49 U.S.C. 114(r)			

ID	Test Description	Level	Test Results	Pass/Fail
USC 114(r)	(b)(3), (b)(4), 49 U.S.C. 114(r)			
9 USC 114(r)				

Security Information that is controlled under 49 CFR parts 15 and 1520. No part of this record may be disclosed to persons without a "need to know," except with the written permission of the Administrator of the Transportation Security Administration or the Secretary of Transportation. For U.S. government agencies, public disclosure is governed by 5 U.S.C. 552 and 49 CFR parts 15 and 1520.

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	Test Description	Level	Test Results	Pass/ Fail
Item with ATR shall (10) provide at (2) gray-scale human figure in Figure 1.	(b) (4)			
9 USC 114(r)				

ve Security Information that is controlled under 49 CFR parts 15 and 1520. No part of this record may be disclosed to persons without a "need to
520, except with the written permission of the Administrator of the Transportation Security Administration or the Secretary of Transportation.
penalty or other action. For U.S. government agencies, public disclosure is governed by 5 U.S.C. 552 and 49 CFR parts 15 and 1520.

ot	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b)		(4)	
9 USC 114(r)				

	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b)		(4)	

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Test ID	Test Description	Level	Test Results	Pass/Fail
<p>Location indicator at least one yellow with a red border on the human figure in the each anomaly is</p>	(b) (4)			

id	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b) (4)			

ID	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(f)	(b)		(4)	

ve Security Information that is controlled under 49 CFR parts 15 and 1520. No part of this record may be disclosed to persons without a "need to 520, except with the written permission of the Administrator of the Transportation Security Administration or the Secretary of Transportation. enalty or other action. For U.S. government agencies, public disclosure is governed by 5 U.S.C. 552 and 49 CFR parts 15 and 1520.


	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b)		(4)	

	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b)		(4)	
9 USC 114(r)				

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	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b) (4)			
ion shall (21) include flat panel color viewing the e human figure				

ve Security Information that is controlled under 49 CFR parts 15 and 1520. No part of this record may be disclosed to persons without a "need to 1520" except with the written permission of the Administrator of the Transportation Security Administration or the Secretary of Transportation. enalty or other action. For U.S. government agencies, public disclosure is governed by 5 U.S.C. 552 and 49 CFR parts 15 and 1520.

at	Test Description	Level	Test Results	Pass/ Fail
<p>monitors shall (22) be size to display the full /c human figure ned above in section (3), 49 USC 114(c)</p>  <p>ion shall (79) provide lear the scan results resentative human s by pressing a clear SO Station.</p>	(b)		(4)	

	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b)		(4)	

	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b)		(4)	
9 USC 114(r)				

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	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b)		(4)	

ID	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(f)	(b) (4)			

ve Security Information that is controlled under 49 CFR parts 15 and 1520. No part of this record may be disclosed to persons without a "need to 1520, except with the written permission of the Administrator of the Transportation Security Administration or the Secretary of Transportation. enalty or other action. For U.S. government agencies, public disclosure is governed by 5 U.S.C. 552 and 49 CFR parts 15 and 1520.

ID	Test Description	Level	Test Results	Pass/ Fail
<p>shall display on the</p> <p>49 USC 114(r)</p> <p>passenger count.</p> <p>passenger count shall be continuously and clearly displayed when the system is powered and/</p>	<div>(b) (4)</div>			

Test ID	Test Description	Level	Test Results	Pass/Fail
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er count display shall
six digits in order to
unt from 0 to 999999.
9 USC 114(r)

(b) (4)

9 USC 114(r)

	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b) (4)			

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	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(i)	(b)		(4)	

ve Security Information that is controlled under 49 CFR parts 15 and 1520. No part of this record may be disclosed to persons without a "need to 1520" except with the written permission of the Administrator of the Transportation Security Administration or the Secretary of Transportation. enalty or other action. For U.S. government agencies, public disclosure is governed by 5 U.S.C. 552 and 49 CFR parts 15 and 1520.

id	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b) (4)			

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at	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b)		(4)	

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Test Description	Level	Test Results	Pass/ Fail
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9 USC 114(r)

(b) (4)

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id	Test Description	Level	Test Results	Pass/ Fail
9 USC 114(r)	(b) (4)			

Appendix A: (b)(3), 49 USC 114(r)

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Introduction

This Appendix documents the compliance of the Secure 1000 Single Pose Advanced Imaging Technology (AIT) system with Automatic Target Recognition (ATR) functionality at the (b) (4) requirements established by the TSA's Function Requirements Document for an *Advanced Imaging Technology System with Automatic Target Recognition for Checkpoint Operations* (Version 1.1) and TSA classified detection appendix *Imaging Technology for Checkpoint Screening Operations* (Version 3.1.01).

Configuration

- Software version [REDACTED]
- ATR version [REDACTED]

(b) (4) Test Results

ATR performance was determined by testing at the following locations:

- (b) (4) [REDACTED]
- (b) (4) [REDACTED]

(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b)(3), (b)(4), 49 U.S.C. § 114(r)

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Test Procedure

(b)(3), (b)(4), 49 U.S.C. § 114(r)



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Figure 1: Numerical Body Locations

(b)(3), 49 U.S.C. § 114(r)



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Figure 2: Numerical Body Locations

(b)(3), 49 U.S.C. § 114(r)



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(b)(3), (b)(4), 49 U.S.C. § 114(r)



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(b)(3), (b)(4), 49 U.S.C. § 114(r)



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(b)(3), (b)(4), 49 U.S.C. § 114(r)



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(b)(3), (b)(4), 49 U.S.C. § 114(r)



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(b)(3), (b)(4), 49 U.S.C. § 114(r)



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(b)(3), (b)(4), 49 U.S.C. § 114(r)



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(b)(3), (b)(4), 49 U.S.C. § 114(r)



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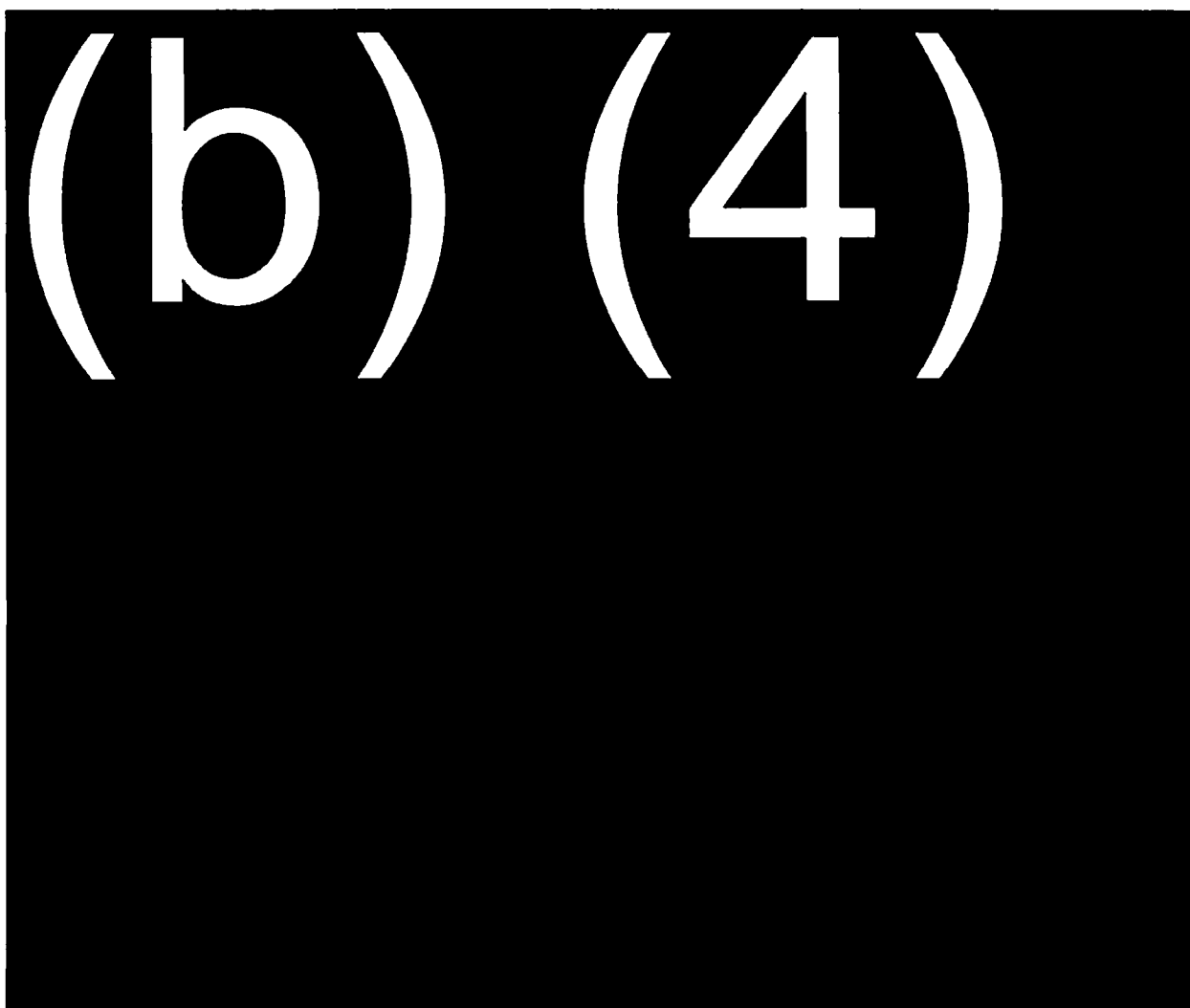
Appendix B: ATR Feature Space Description

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Assertion of data and software rights

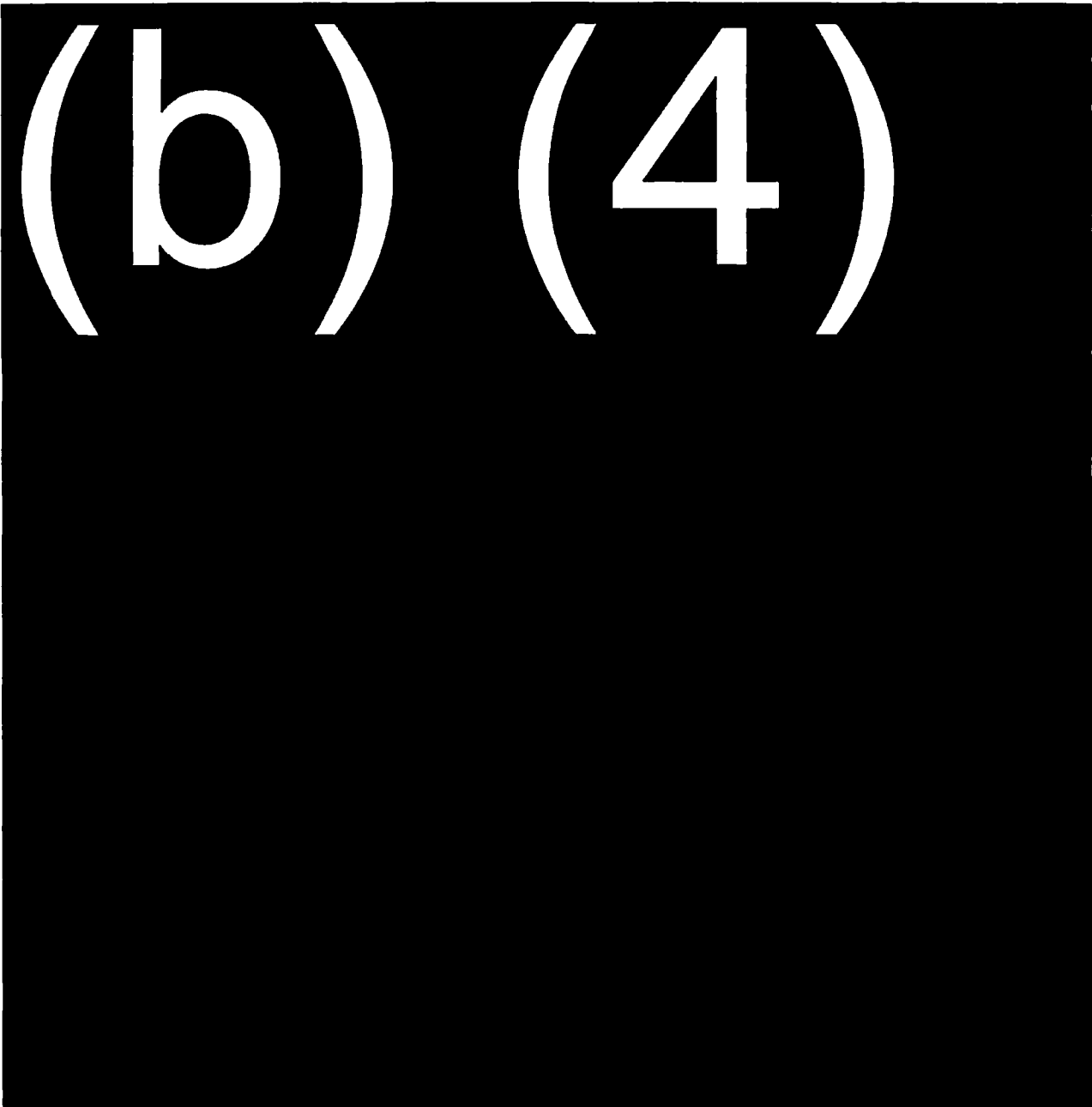
The detection algorithm and software for the Secure 1000 SP has been based on pre-existing development, developed at private expense. Rapiscan asserts data rights to this algorithm description, and computer software rights to the actual algorithm implemented in performance of this contract. Limited Rights Notice: These data are submitted with limited rights under Government Contract No. HSTS04-09-D-CT2077. These data may be reproduced and used by the Government with the express limitation that they will not, without written permission of the Contractor, be used for purposes of manufacture nor disclosed outside the Government.

AIT ATR Feature Space Description



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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	(b) (4)

(b)(3), 49 USC 114(r)

(b)(3), (b)(4), 49 USC 114(r)

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	(b) (4)

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(b)(3), (b)(4), 49 USC 114(r)

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	(b) (4)

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(b)(3), (b)(4), 49 USC 114(r)

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	(b) (4)

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

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(b)(3), (b)(4), 49 USC 114(r)

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System Model	Secure 1000 Single Pose with ATR
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(b)(3), (b)(4), 49 USC 114(r)

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b)(3), (b)(4), 49 USC 114(r)

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SENSITIVE SECURITY INFORMATION

System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

(b)(3), (b)(4), 49 U.S.C. § 114(r)

System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b)(3), (b)(4), 49 U.S.C. § 114(r)



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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

(b) (4)

(b) (4)

(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

(b) (4)

(b)(3), (b)(4), 49
U.S.C. § 114(r)

(b) (4)

(b) (4)

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

(b) (4)

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SENSITIVE SECURITY INFORMATION

System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

(b) (4)

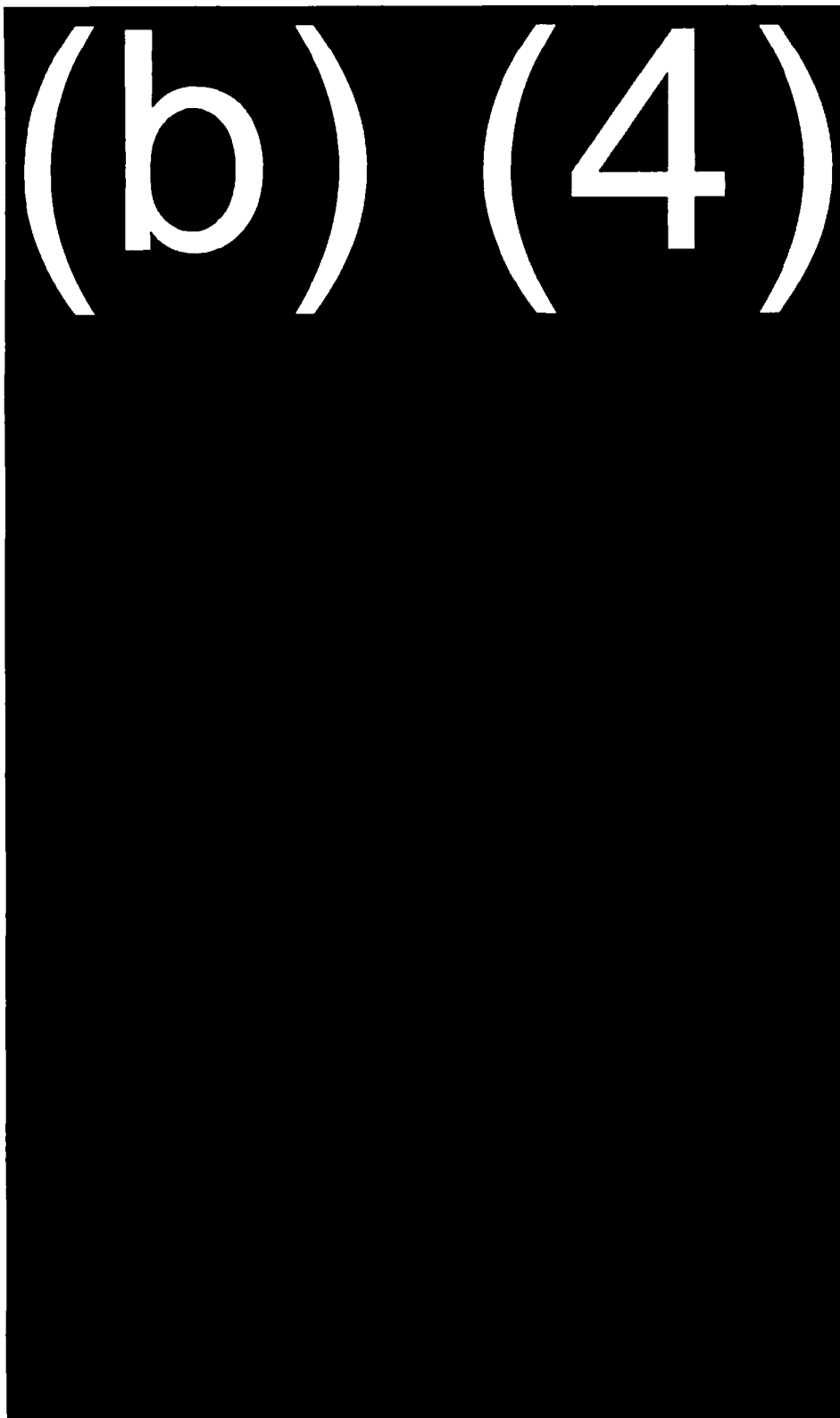
(b) (4)

(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)



System Model	Secure 1000 Single Pose with ATR
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(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

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SENSITIVE SECURITY INFORMATION

System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

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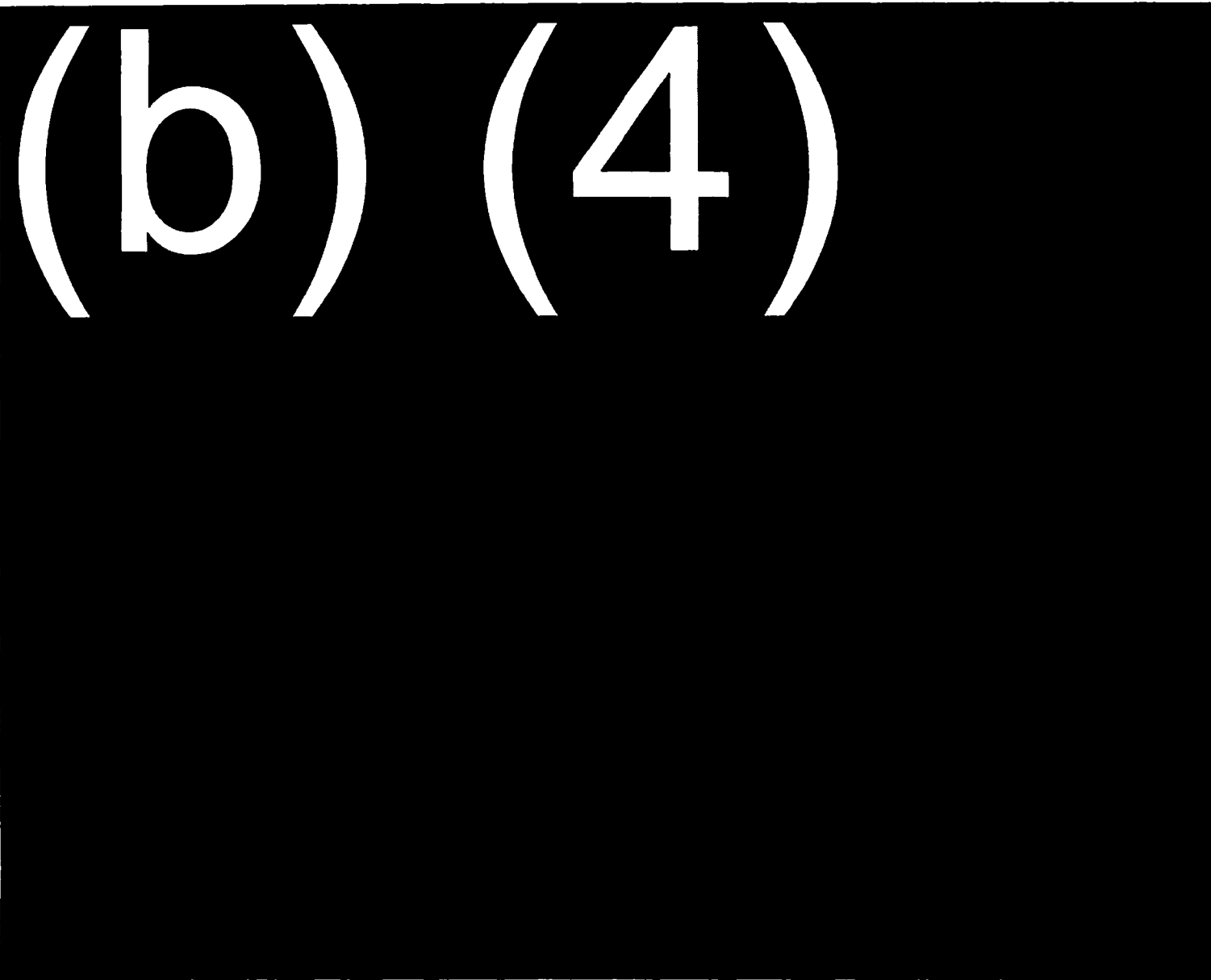
System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	

(b) (4)

(b)(3), (b)(4), 49 USC 114(r)

System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)



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SENSITIVE SECURITY INFORMATION

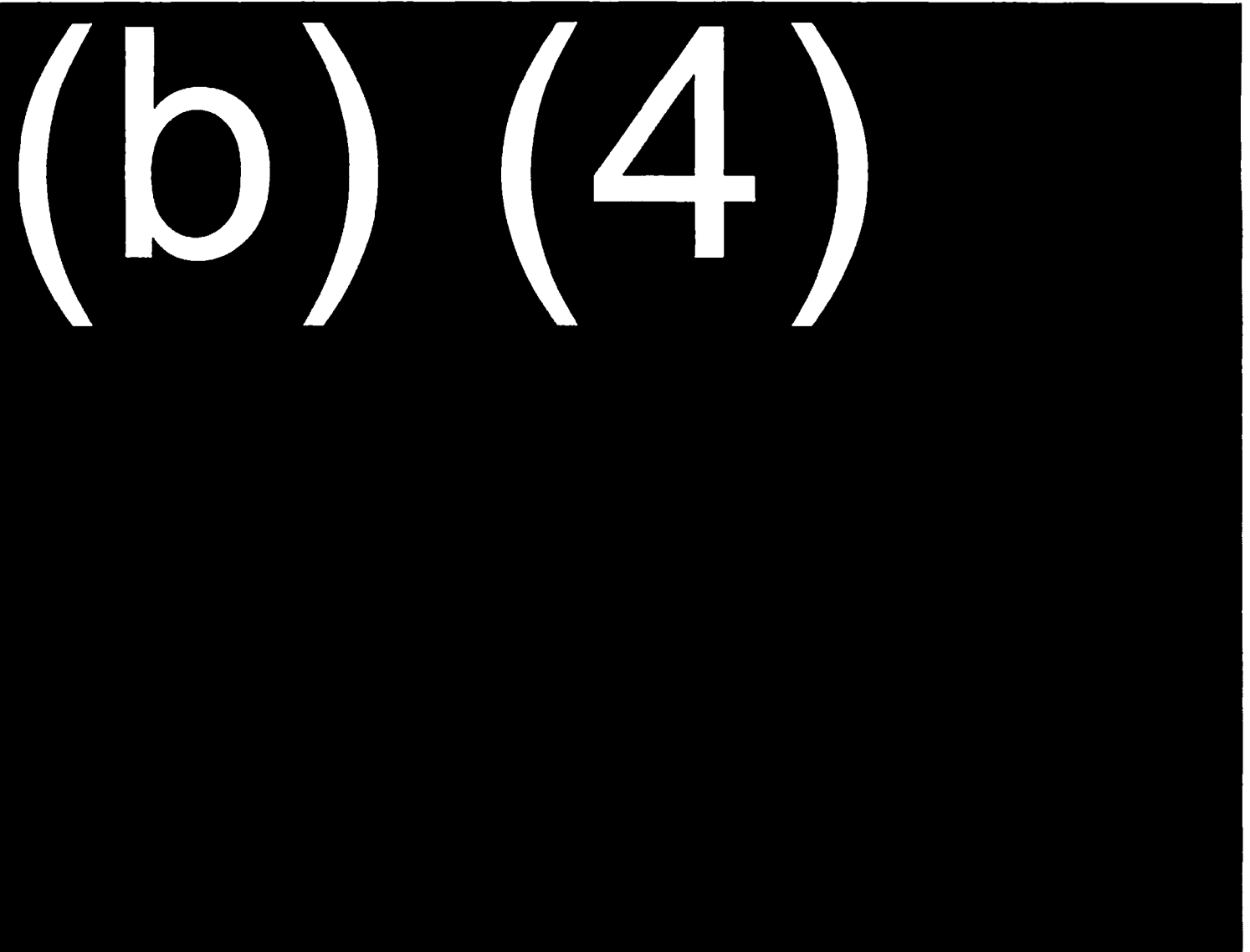
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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)



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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)

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(b)(3), (b)(4), 49 U.S.C. § 114(r)

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	(b) (4)

(b) (4)

(b)(3), (b)(4), 49 U.S.C. § 114(r) (b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR	
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(b) (4)

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)

(b) (4)

(b) (4) (b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

System Model	Secure 1000 Single Pose with ATR
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(b) (4)

(b) (4)

(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)

(b) (4)

(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION X

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)

(b) (4)

(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)

(b) (4)

(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)

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(b) (4) (b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR	
Figure No.	(b) (4)	
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(b) (4) (b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
Requirement Number	(b) (4)

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(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)

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(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)

(b) (4)

(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

System Model	Secure 1000 Single Pose with ATR
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(b) (4)

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(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)

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(b) (4) (b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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(b) (4)

(b) (4)

(b) (4) (b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

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System Model	Secure 1000 Single Pose with ATR	
Figure No.	(b) (4)	
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(b) (4)

(b) (4)

(b)(3), (b)(4), 49 U.S.C. § 114(r)

(b) (4)

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SENSITIVE SECURITY INFORMATION

System Model	Secure 1000 Single Pose with ATR
Figure No.	(b) (4)
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