ผนวก ข

(Walk-Through Metal Detector

TEST REPORT)

NIJ Standard 0601.02 VERIFICATION OF DETECTION AND DISCRIMINATION

Metal Detector	MANUFACTURER MODEL SERIAL NUMBER					
Location						
Date	YYYY	MM	DD			
	RESULT	•	•			
NII L 0004 02	Large Object Size	[] PASS [] FAIL				
NIJ 0601.02 Object Size Class	Medium Object Size	[]PASS	[] FAIL			
	Small Object Size	[] PASS	[] FAIL			
Notes						
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1 Introduction to the tests

1.1 General rules

- The transit of people carrying no metal parts or equipped with innocuous metal items specified by the NIJ standard for the discrimination test shall not cause an alarm of the metal detector (a maximum of 5 alarms for 25 consecutive trials is allowed for Large Object and Medium Object Size Classes). This test is performed by a clean tester carrying the innocuous metal items in the positions specified by the NIJ standard.
- The transit of metal objects to be detected specified by the NIJ standard shall always cause an alarm of the metal detector. This test is performed passing through the metal objects to be detected using a proper positioning system, in order to ensure measurement accuracy and repeatability and to avoid any contribution of additional signals caused by the operator body.

1.2 Sequence of the tests

The following sections contain the reports of the tests performed in accordance with the above mentioned rules for the object size classes specified by the NIJ standard, in the following sequence:

- NIJ0601.02 Large Objects
 - Verification of the discrimination
 - Verification of the detection
- NIJ0601.02 Medium Objects
 - Verification of the discrimination
 - Verification of the detection
- NIJ0601.02 Small Objects
 - Verification of the discrimination
 - Verification of the detection

1.3 Setting modification

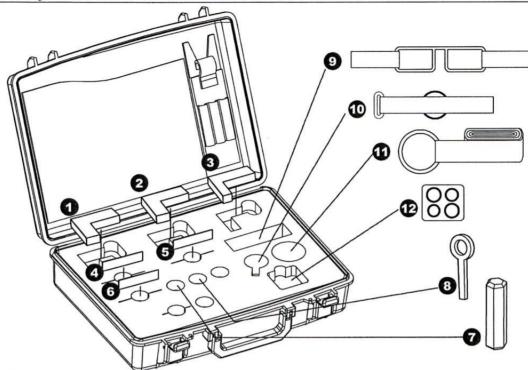
The equipment setting must be the one proposed by the manufacturer as the best to meet the requirements of the Standard for each object size class.

In case one step of the verification fails, either for the discrimination or for the detection requirement, the manufacturer is allowed to change the setting of the equipment.

After this modification, the tests of the corresponding object size class must be repeated, starting from the discrimination test.

If one step of the Verification of the Detection Requirements fails again, the tests for the corresponding object size class shall be considered failed.

Test Objects and Innocuous Items



#	Detection Test Object		NIJ Standard 0601.02	
		Large Object Size Class	Medium Object Size Class	Small Object Size Class
1	NIJ LO-Z35530 Hand Gun	•	-	-
2	NIJ LO-A96061 Hand Gun	•	=	-
3	NIJ LO-G41400 Hand Gun	•	-	
4	NIJ MO-A95052 Knife	-	•	-
5	NIJ MO-G41300 Knife	-	•	
6	NIJ SO-S30400 SS Knife	-	-	•
7	NIJ SO-G41400 Screw driver Bit	-	-	•
8	NIJ SO-G10180 Handcuff Key	-	-	•

#	Discrimination Test Object		NIJ Standard 0601.02		
	(Innocuous Item)	Large Object Size Class	Medium Object Size Class	Small Object Size Class	
9	Eyeglasses S30400	•	•	-	
10	Watch S30400	•	-	i a P	
11	Belt Buckle S30400	•	•	-	
12	Set of coins (U.S.A.)	•	-	-	



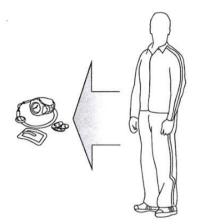
Discrimination Test

1.5.1 The "Clean Tester"

A "Clean Tester" is:

"A person who does not carry any electrically conductive and magnetizable objects such as metallic belt buckles, metal buttons, cardiac pacemaker, coins, metal-frame eyeglasses, hearing aid, jewelry, keys, pens and pencils, shoes with metal arches or supports, metallic surgical implants, undergarment support metal, metal zippers, and similar items, which would significantly alter the signal produced when the person carries a *test object*."

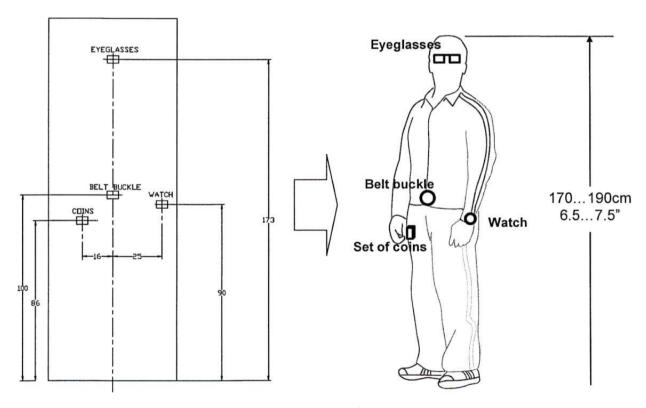
Therefore the Clean Tester, a person of average build, will wear a tracksuit, gym shoes and he/she must remove any personal metallic object (glasses, watch, rings, necklaces, bracelets...) before starting the tests.



1.5.2 Innocuous Items Test Positions

"Innocuous Item Test Object Holder

The first drawing shows the location of the *innocuous item test objects* on the *innocuous item test object* holder, and the subsequent mechanical drawings are of the parts of the *innocuous item test object* holder and its assembly. All components of the holder shall be constructed of nonelectrically conductive and nonmagnetic materials."



NOTE: ALL DIMENSIONS ARE IN CENTIMETERS.
TOLERANCE FOR ALL DIMENSIONS IS ±2 CENTIMETERS.

Test Object Holder and position of the Innocuous Items

1.5 Discrimination Test Transits

The test is performed by the Clean Tester carrying the innocuous items specified by the standard. Perform four transits, two in one direction and two in the opposite direction, walking at a normal speed (0.5 ... 1.5 m/s). Ensure that the Metal Detector will never trigger an alarm signal.

REMARK

The detector shall be placed in a sufficiently stable location so that a clean tester walking through the portal does not cause a positive *alarm indication*.

Reference

For additional information refer to the following paragraphs of the NIJ Standard 0601.02: 1.2.4, 3.2.6, 5.4.3.

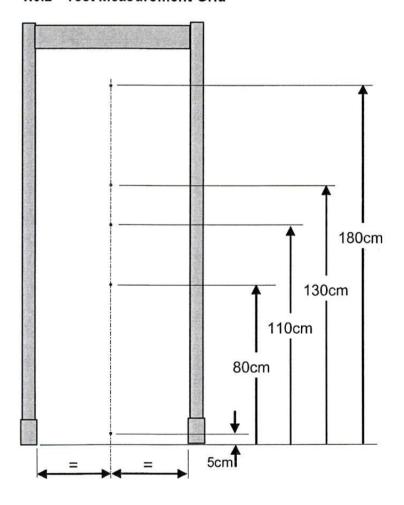
1.6 Pass-Through Verification of the Detection Requirements

1.6.1 Positioning System

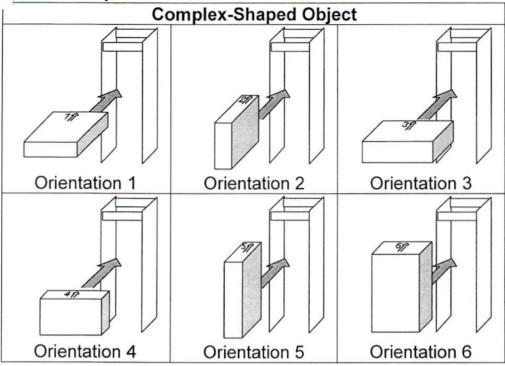
A Positioning System must be placed inside the equipment archway.

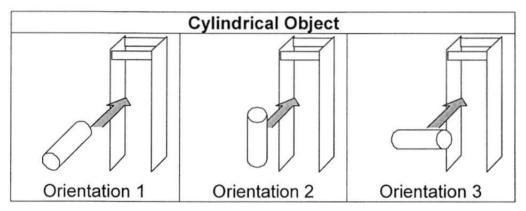
It can be a motorized arm or simply a reference surface, adjustable in height, on which a test piece placed inside a holder can be moved using a rod. During the tests all parts of the Positioning System inside the equipment archway must be made of insulating materials.

1.6.2 Test Measurement Grid



.6.3 Test Object Orientations





1.6.4 Test Object Transits

Perform, for each Reference Test Object, two passages, one forwards and the other backwards, for each location and for each orientation, verifying that for every transit an alarm is triggered.

1.6.4.1 Pass-through speed

0.5m/s ... 1.5m/s

1.6.4.2 Reference

For additional information refer to the following paragraphs of the NIJ Standard 0601.02: 1.2.19, 3.2.3.

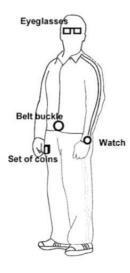


2 NIJ0601.02 Large Objects Size Class

2.1 Large Objects Size Class - First Session

2.1.1 Large Objects Size Class - First Session - Discrimination Test

The test is performed by the Clean Tester carrying the innocuous items specified by the standard. Perform 25 transits, walking at a normal speed (0.5 ...1.5 m/s). Ensure that the Metal Detector will trigger less than 6 (six) alarm signals.



| Alarm | No Alarm |
|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| Alarm | No Alarm |
| Alarm | No Alarm |
| Alarm | No Alarm |
| Alarm | No Alarm |

[]PASS	[] FAIL
Less than 6 alarms have been triggered by the Clean	Six or more alarms have been triggered by the Clean Tester carrying the innocuous items.
Tester carrying the innocuous items.	Perform any possible setting change, go to the Second Session and repeat the test

1.1.2 Large Objects Size Class - First Session - Verification of the Detection Requirements

2.1.2.1 Large Objects Size Class - First Session - Detection of NIJ LO-G41400 Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

						Orien	tation						
Position	1 n				3	3 4		4		5		6	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
180 cm	Y	Y	Y	Υ	Υ	Y	Υ	Y	Y	Y	Υ	Y	
	N	N	N	N	N	N	N	N	N	N	N	N	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
130 cm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	N	N	N	N	Ν	N	N	N	Ν	N	Z	N	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
110 cm	Y	Y	Y	Y	Y	Y	Υ	Y	Υ	Y	Y	Υ	
	N	N	N	N	Ν	N	N	N	N	N	Ν	N	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
80 cm	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y	
	N	N	Ν	N	Ν	N	N	N	Ν	N	Z	N	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
5 cm	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y	Y	
	N	N	N	N	N	N	N	N	N	N	N	N	

R			

[] PASS	[] FAIL
The test object has been detected in all positions and orientations.	The test object hasn't been detected in one or more positions and orientations. Perform any possible setting change, go to the Second Session and repeat the test starting from the discrimination step.

2.1.2.2 Large Objects Size Class - First Session - Detection of NIJ LO-A96061 Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

		Orientation											
Position	1		2		3	3		4		5		6	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
180 cm	Y	Υ	Υ	Υ	Y	Υ	Υ	Y	Y	Υ	Υ	Y	
V32.0000.00047810	N	N	N	N	N	N	N	N	N	N	Ν	N	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
130 cm	Y	Y	Υ	Y	Y	Y	Υ	Y	Υ	Y	Y	Y	
	N	Ν	N	N	Ν	N	Ν	N	N	N	N	N	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
110 cm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	N	N	N	N	Ν	N	Ν	N	N	N	Z	N	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
80 cm	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y	Y	
	N	N	N	N	N	N	Ν	N	N	N	Z	N	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	
5 cm	Y	Υ	Y	Υ	Υ	Y	Υ	Y	Y	Y	Y	Y	
	N	N	N	N	N	N	N	N	N	N	Ν	N	

Result	
[] PASS	[] FAIL
The test object has been detected in all positions and orientations.	The test object hasn't been detected in one or more positions and orientations. Perform any possible setting change, go to the Second Session and repeat the test starting from the discrimination step.



2.1.2.3 Large Objects Size Class - First Session - Detection of NIJ LO-Z35530 Test Object
Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

		Orientation										
Position	1		2		3		4		5		6	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
180 cm	Y	Y	Υ	Y	Υ	Υ	Y	Y	Υ	Υ	Υ	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
130 cm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	Ν	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
110 cm	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
80 cm	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Υ	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
5 cm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N

Result	
[]PASS	[] FAIL
The test object has been detected in all positions and orientations.	The test object hasn't been detected in one or more positions and orientations. Perform any possible setting change, go to the Second Session and repeat the test starting from the discrimination step.

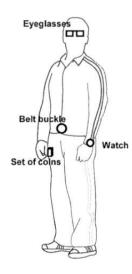


2.2 Large Objects Size Class – Second Session

Second session tests must be performed after a setting change subsequent to a failed step in the first session.

2.2.1 Large Objects Size Class - Second Session - Discrimination Test

The test is performed by the Clean Tester carrying the innocuous items specified by the standard. Perform 25 transits, walking at a normal speed (0.5 ... 1.5 m/s). Ensure that the Metal Detector will trigger less than 6 (six) alarm signals.



| Alarm | No Alarm |
|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| Alarm | No Alarm |
| Alarm | No Alarm |
| Alarm | No Alarm |
| Alarm | No Alarm |

rtodut	
[]PASS	[] FAIL
Less than 6 alarms have been triggered by the Clean	Six or more alarms have been triggered by the Clean
Tester carrying the innocuous items.	Tester carrying the innocuous items.

2.2

Large Objects Size Class - Second Session - Verification of the Detection Requirements

2.2.2.1 Large Objects Size Class - Detection of NIJ LO-G41400 Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

		Orientation												
Position	1		2		3		4		5		6			
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
180 cm	Y	Y	Y	Y	Y	Υ	Υ	Y	Y	Y	Y	Y		
	N	N	N	N	N	N	N	N	Ν	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
130 cm	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
110 cm	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y	Υ	Y		
	N	N	N	N	Ν	N	N	N	Ν	N	Ν	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
80 cm	Y	Y	Υ	Y	Y	Y	Υ	Υ	Y	Y	Y	Y		
	N	N	N	N	Ν	N	N	N	Ν	N	Ν	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
5 cm	Y	Υ	Y	Υ	Y	Υ	Y	Y	Y	Y	Υ	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		

Notes:_

Result

[] PASS	[] FAIL
The test object has been detected in all positions and	The test object hasn't been detected in one or more
orientations.	positions and orientations.

2.2.2.2 Large Objects Size Class - Second Session - Detection of NIJ LO-A96061 Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

		Orientation												
Position	1		3 4			5		6						
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
180 cm	Y	Y	Y	Y	Y	Υ	Υ	Υ	Y	Υ	Y	Y		
	N	N	N	N	N	N	N	N	Ν	N	Ν	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
130 cm	Y	Y	Υ	Υ	Υ	Y	Υ	Y	Υ	Y	Y	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
110 cm	Y	Y	Y	Y	Y	Y	Υ	Y	Υ	Y	Υ	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
80 cm	Y	Y	Υ	Y	Y	Y	Y	Y	Υ	Y	Y	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
5 cm	Y	Y	Y	Y	Y	Y	Υ	Y	Υ	Y	Y	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		

Notes:

[]PASS	[] FAIL
The test object has been detected in all positions and	The test object hasn't been detected in one or more
orientations.	positions and orientations.

2.2.2.3 Large Objects Size Class - Second Session - Detection of NIJ LO-Z35530 Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

						Orien	tation					
Position	1		2		3		4		5		6	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
180 cm	Y	Y	Υ	Y	Υ	Y	Y	Y	Y	Y	Υ	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
130 cm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Υ	Y
	N	N	N	N	N	N	N	Ν	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
110 cm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	Ν	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
80 cm	Y	Υ	Υ	Y	Υ	Y	Υ	Y	Υ	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
5 cm	Y	Υ	Y	Y	Y	Y	Υ	Y	Υ	Υ	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N

Notes:_

[]PASS	[] FAIL
The test object has been detected in all positions and	The test object hasn't been detected in one or more
orientations.	positions and orientations.

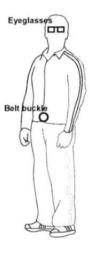


3 NIJ0601.02 Medium Object Size Class

3.1 Medium Object Size Class - First Session

3.1.1 Medium Object Size Class - First Session - Discrimination Test

The test is performed by the Clean Tester carrying the innocuous items specified by the standard. Perform 25 transits, walking at a normal speed (0.5 ...1.5 m/s). Ensure that the Metal Detector will trigger less than 6 (six) alarm signals.



| Alarm | No Alarm |
|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| Alarm | No Alarm |
| Alarm | No Alarm |
| Alarm | No Alarm |
| Alarm | No Alarm |

[]PASS	[] FAIL
Less than 6 alarms have been triggered by the Clean Tester carrying the innocuous items.	Six or more alarms have been triggered by the Clean Tester carrying the innocuous items.
	Perform any possible setting change, go to the Second Session and repeat the test

3.1.2 Medium Object Size Class - First Session - Verification of the Detection Requirements

3.1.2.1 Medium Object Size Class - First Session - Detection of NIJ MO-G41300 Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

		Orientation												
Position	1		2		3		4		5		6			
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
180 cm	Y	Υ	Υ	Y	Υ	Y	Υ	Y	Y	Y	Υ	Υ		
	N	N	N	N	Ν	N	Ν	N	Ν	N	Ν	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
130 cm	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
110 cm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	N	N	N	N	Ν	N	Ν	Ν	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
80 cm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	N	N	N	N	Ν	N	N	N	N	N	Ν	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
5 cm	Y	Υ	Y	Υ	Y	Y	Y	Υ	Y	Y	Υ	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		

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[] PASS	[] FAIL
The test object has been detected in all positions and orientations.	The test object hasn't been detected in one or more positions and orientations. Perform any possible setting change, go to the Second Session and repeat the test starting from the discrimination step.

3.1.2.2 Medium Object Size Class - First Session - Detection of NIJ MO-A95052 Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

						Orien	tation					
Position	1		2		3		4		5		6	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
180 cm	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
130 cm	Υ	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y
	N	Ν	N	N	Ν	N	N	N	N	N	Z	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
110 cm	Y	Y	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Y
Marie Company	N	N	N	N	N	N	N	N	N	N	Ν	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
80 cm	Y	Υ	Y	Υ	Y	Y	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N	Ν	N	N	N	Ν	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
5 cm	Y	Y	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	Ν	N

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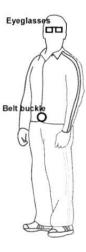
[] PASS	[] FAIL
The test object has been detected in all positions and orientations.	The test object hasn't been detected in one or more positions and orientations. Perform any possible setting change, go to the Second Session and repeat the test starting from the discrimination step.

3.2 Medium Objects Size Class – Second Session

Second session tests must be performed after a setting change subsequent to a failed step in the first session.

3.2.1 Medium Object Size Class - Second Session - Discrimination Test

The test is performed by the Clean Tester carrying the innocuous items specified by the standard. Perform 25 transits, walking at a normal speed (0.5 ...1.5 m/s). Ensure that the Metal Detector will trigger less than 6 (six) alarm signals.



| Alarm | No Alarm |
|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| Alarm | No Alarm |
| Alarm | No Alarm |
| Alarm | No Alarm |
| Alarm | No Alarm |

[]PASS	[] FAIL
Less than 6 alarms have been triggered by the Clean	Six or more alarms have been triggered by the Clean
Tester carrying the innocuous items.	Tester carrying the innocuous items.

.2.2 Medium Object Size Class - Second Session - Verification of the Detection Requirements

3.2.2.1 Medium Object Size Class - Second Session - Detection of NIJ MO-G41300 Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

						Orien	tation					
Position	1		2	T	3		4		5		6	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
180 cm	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Υ	Υ	Y
	N	N	N	N	N	N	N	N	N	N	Ν	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
130 cm	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y	Υ
	N	Ν	N	N	N	N	Ν	N	Ν	N	Ν	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
110 cm	Y	Υ	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	N	N	N	Ν	Ν	N	Ν	N	Ν	N	Ν	Ν
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
80 cm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
5 cm	Y	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N

Notes:

Result

result	
[] PASS	[] FAIL
The test object has been detected in all positions and	The test object hasn't been detected in one or more
orientations.	positions and orientations.

3.2.2.2 Medium Object Size Class - Second Session - Detection of NIJ MO-A95052 Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

						Orien	tation					
Position	1		2		3		4		5		6	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
180 cm	Y	Y	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Y
	N	N	N	N	N	Ν	N	N	Ν	N	Ν	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
130 cm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	N	Ν	N	N	Ν	N	N	Z	Ν	N	Ν	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
110 cm	Y	Y	Y	Υ	Y	Y	Υ	Y	Υ	Y	Υ	Y
	N	N	N	N	N	N	N	N	N	N	Ν	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
80 cm	Y	Y	Y	Υ	Υ	Y	Υ	Υ	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
5 cm	Y	Y	Υ	Υ	Y	Y	Υ	Y	Υ	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N

Notes:

Result	
[]PASS	[] FAIL
The test object has been detected in all positions and	The test object hasn't been detected in one or more
orientations.	positions and orientations.

4 JJ0601.02 Small Object Size Class

4.1 Small Object Size Class - First Session

4.1.1 Small Object Size Class - First Session - Discrimination Test

The test is performed by the Clean Tester carrying no innocuous items. Perform eight transits, four in one direction and four in the opposite direction, walking at a normal speed (0.5 ... 1.5 m/s). Ensure that the Metal Detector will never trigger an alarm signal.



| Alarm | No Alarm |
|-------|----------|-------|----------|-------|----------|-------|----------|
| Alarm | No Alarm |

[]PASS	[] FAIL
No alarms have been triggered by the Clean Tester.	Six or more alarms have been triggered by the Clean Tester carrying the innocuous items.
	Perform any possible setting change, go to the Second Session and repeat the test

1.2 Small Object Size Class - First Session - Verification of the Detection Requirements

4.1.2.1 Small Object Size Class - First Session - Detection of NIJ SO-S30400 Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

		Orientation												
Position	1		2		3		4		5		6			
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
180 cm	Y	Y	Υ	Υ	Υ	Y	Y.	Y	Υ	Y	Y	Y		
	N	N	N	N	Ν	N	N	N	Ν	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
130 cm	Y	Y	Y	Y	Υ	Y	Υ	Y	Y	Y	Y	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
110 cm	Y	Y	Y	Y	Υ	Y	Υ	Y	Y	Y	Y	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
80 cm	Y	Y	Y	Y	Y	Y	Y	Y	Υ	Y	Y	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
5 cm	Y	Y	Υ	Y	Y	Y	Υ	Y	Υ	Y	Y	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		

Result	
[]PASS	[] FAIL
The test object has been detected in all positions and orientations.	The test object hasn't been detected in one or more positions and orientations. Perform any possible setting change, go to the Second Session and repeat the test starting from the discrimination step.

4.1.2.2 Small Object Size Class - First Session - Detection of Screw Driver Bit Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

	Orientation									
	1	A	2	A	3					
Position	6		(311						
	#1	#2	#1	#2	#1	#2				
180 cm	Y	Y	Y	Y	Y	Y				
	N	N	N	N	N	N				
	#1	#2	#1	#2	#1	#2				
130 cm	Y	Y	Y	Y	Y	Y				
	N	N	N	N	N	N				
	#1	#2	#1	#2	#1	#2				
110 cm	Y	Y	Y	Y	Y	Y				
	N	N	N	N	N	N				
	#1	#2	#1	#2	#1	#2				
80 cm	Y	Y	Y	Y	Y	Y				
	N	N	N	N	N	N				
	#1	#2	#1	#2	#1	#2				
5 cm	Y	Y	Y	Y	Y	Y				
	N	N	N	N	N	N				

Result	
[]PASS	[] FAIL
The test object has been detected in all positions and orientations.	The test object hasn't been detected in one or more positions and orientations. Perform any possible setting change, go to the Second Session and repeat the test starting from the discrimination step.

4.1 Small Object Size Class - First Session - Detection of Handcuff Key Test Object Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

		Orientation												
Position	1		2		3		4		5		6			
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
180 cm	Y	Y	Y	Y	Υ	Y	Y	Y	Υ	Y	Y	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
130 cm	Y	Y	Y	Y	Υ	Y	Y	Y	Υ	Y	Υ	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
110 cm	Y	Y	Υ	Y	Υ	Υ	Υ	Υ	Y	Y	Υ	Υ		
	N	N	N	N	N	N	N	N	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
80 cm	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2		
5 cm	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y	Υ	Y		
	N	N	N	N	N	N	N	N	N	N	N	N		

Result	
[]PASS	[]FAIL
The test object has been detected in all positions and orientations.	The test object hasn't been detected in one or more positions and orientations. Perform any possible setting change, go to the Second Session and repeat the test starting from the discrimination step.



2.2 Small Objects Size Class – Second Session

Second session tests must be performed after a setting change subsequent to a failed step in the first session.

4.2.1 Small Object Size Class - Second Session - Discrimination Test

The test is performed by the Clean Tester carrying no innocuous items. Perform eight transits, four in one direction and four in the opposite direction, walking at a normal speed (0.5 ... 1.5 m/s). Ensure that the Metal Detector will never trigger an alarm signal.



Alarm	No Alarm	Alarm	No Alarm	Alarm	No Alarm	Alarm	No Alarm
Alarm	No Alarm	Alarm	No Alarm	Alarm []	No Alarm	Alarm	No Alarm

rtoourt	
[]PASS	[] FAIL
No alarms have been triggered by the Clean Tester.	One or more alarms have been triggered by the Clean Tester.

4.2

Small Object Size Class - Second Session - Verification of the Detection Requirements

4.2.2.1 Small Object Size Class - Second Session - Detection of NIJ SO-S30400 Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

		Orientation										
Position	1		2		3		4		5		6	
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
180 cm	Y	Y	Y	Y	Υ	Y	Y	Y	Υ	Y	Y	Υ
	N	N	Ν	N	Ν	N	N	N	Ν	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
130 cm	Y	Y	Y	Y	Υ	Y	Y	Υ	Υ	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
110 cm	Y	Y	Y	Y	Υ	Y	Υ	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
80 cm	Y	Y	Y	Y	Υ	Y	Υ	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
5 cm	Y	Υ	Y	Υ	Υ	Y	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N

Notes:

Result

- Toolii	
[]PASS	[] FAIL
The test object has been detected in all positions and	The test object hasn't been detected in one or more
orientations.	positions and orientations.

4.2.2.2 Small Object Size Class - Second Session - Detection of Screw Driver Bit Test Object

Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

			Orie	ntation		
Position	1		2		3	
	#1	#2	#1	#2	#1	#2
180 cm	Y	Υ	Y	Y	Y	Y
	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2
130 cm	Y	Y	Y	Y	Y	Y
	N	N	Ν	N	N	Z
	#1	#2	#1	#2	#1	#2
110 cm	Y	Y	Y	Y	Y	Y
	N	N	Ν	N	N	N
	#1	#2	#1	#2	#1	#2
80 cm	Y	Y	Υ	Y	Y	Y
	N	N	Ν	N	N	N
	#1	#2	#1	#2	#1	#2
5 cm	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N

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result	
[]PASS	[] FAIL
The test object has been detected in all positions and	The test object hasn't been detected in one or more
orientations.	positions and orientations.



2.2.3 Small Object Size Class - Second Session - Detection of Handcuff Key Test Object

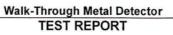
Record the result of each transit in the following table, by checking the proper box: Y= detection, N= no detection.

		Orientation										
Position	1		2		3		4 ©		5		6	
complete carrier	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
180 cm	Y	Y	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Y
	N	N	N	N	Ν	N	N	N	N	N	Ν	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
130 cm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	N	N	N	N	Ν	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
110 cm	Y	Y	Y	Υ	Y	Υ	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
80 cm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N
	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
5 cm	Y	Y	Υ	Y	Y	Y	Υ	Y	Y	Y	Y	Y
	N	N	N	N	N	N	N	N	N	N	N	N

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[]PASS	[] FAIL
The test object has been detected in all positions and	The test object hasn't been detected in one or more
orientations.	positions and orientations.



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