State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 201

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-611(1)(f)(III)	No nonpunch card electronic voting system shall be purchased, leased, or used unless it fulfills the following requirements: If the system uses a voting device: It contains a protective counter with a register which cannot be reset, which shall register the cumulative total number of movements of the operating mechanism.	CC2-P3-201
		Test Date: 8/16/2007
		Test End Date Time: 8/16/2007
Cross Reference 1		Test Type (D, F, B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the voting device contains a protective counter which cannot be reset, recording the cumulative total number of operations of the mechanism as required herein.

Prerequisites:

DB2-P3-201

Test Procedures:

Use election setup and voting from DB2-P3-201. Document findings of protective counter during setup and hardware diagnostics. Attach documentation as necessary.

Variances Used During Testing:

N/A

Test Expected Outcome

The device private counter is not re-setable and does increment as each vote is cast.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 201

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
8.16.07		Geneice	Referenced the M100 documentation for anything that mentioned the protective counter, could not find anything Also did a search again could not find any mention of the protective counter. Went into the diagnostics mode on the machine and could not find any reference in the system reports that showed the protective counter.	
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 201

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	No ☐ Yes ☒	Videos (list all videos)	No ☒ Yes ☐	Photos (list all photos)	No ☒ Yes ☐
~~Ref~~ Documentation M100 User's Guide					

Acceptable Compensating Controls

Results Summary	Final Test Status
No protective counter found.	F

1st Review	2nd Review	Supervisor Approval
G Mathews	Michael L. Chadwell	John Gardner
Printed name	Printed name	Printed name
Signature	Signature	Signature
8.16.07	9.11.07	9/12/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 201

Additional Observations and Findings

Observations:

See log

Findings:

Device does not have a protective non-resetable (private) counter.

1st Review	2nd Review	Supervisor Approval
G Mathers	Michael L. Chadwell	John Gardner
Printed name	Printed name	Printed name
Signature	Signature	Signature
8-16-07	9.11.07	9/13/07
Date	Date	Date

Appendix D: Understanding System Menus

Appendix D contains diagrams and descriptions of Model 100 menu functions. Which menu selections are available depend on what operating mode you activate for the Model 100. For example, if you turn the control key to the OPEN/CLOSE POLL position, Model 100 POLLS OPEN options are not accessible.

The Model 100's three operating modes are DIAGNOSTIC-TEST, POLLS OPEN, and POLLS CLOSED. You can only activate one mode at a time.

Diagnostic Test Mode

Perform diagnostic tests before you open the scanner for voting. Model 100 diagnostic test functions include processing a test deck, setting the system time, calibrating the scanner, and auto-reading ballots. After you open the polls, the **DIAGNOSTIC-TEST** menu is not available unless you reopen the polls after closing the scanner for voting. To access the **DIAGNOSTIC-TEST** menu, start the Model 100 with a PC Card loaded, wait until the automatic reports print and then press the first and third buttons from the left on the control panel simultaneously. You can also access the **DIAGNOSTIC-TEST** menu by starting the Model 100 without installing a PC Card.

Accessing the Diagnostic Test Menu (with a PC Card Loaded)

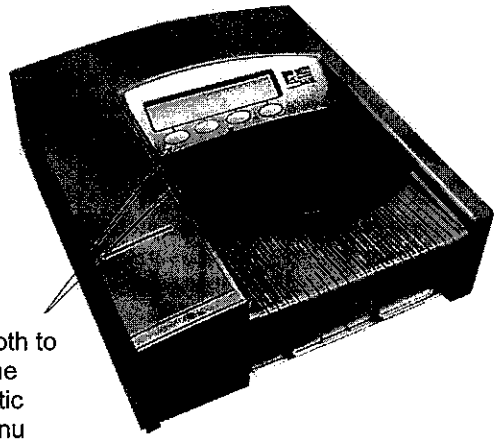
```
S-MODE        DIAGNOSTIC-TEST MENU

              SYSTEM     ELECTION     PREVIOUS
DIAGS         SETTINGS     TEST         MENU
```

To access the DIAGNOSTIC-TEST menu (with a PC Card loaded)

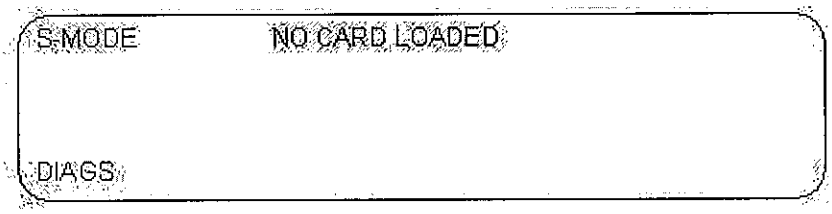
1. Insert the PC Card with the election definition and turn the scanner on. The scanner powers up and the message "ELECTION CARD INSERTED: OPEN POLLS NOW?" appears.

2. Press the first and third buttons from the left to access the **DIAGNOSTIC-TEST** menu.



3. The three selections under the **DIAGNOSTIC-TEST** menu are **DIAGS** (diagnostics), **SYSTEM SETTINGS**, and **ELECTION TEST**.

Accessing the Diagnostic Test Menu (without a PC Card)



To access the DIAGNOSTIC-TEST menu (without a PC Card)

Do not insert a PC Card into the scanner and turn the scanner key to OPEN/CLOSE POLL. **DIAGS** is the only menu selection available when no PC Card is loaded in the Model 100.

The DIAGS Menu

Select **DIAGS** from the **DIAGNOSTIC-TEST** menu to test the scanner's accuracy and print reports that detail the current machine status. The three options available from the **DIAGS** menu are **BALLOT DIAGS, SYSTEM REPORTS,** and **MORE DIAGS.**

Select **BALLOT DIAGS** to test your scanner's accuracy. The two options available from the **BALLOT DIAGS** menu are **FEED BALLOTS** and **RECYCLE SET**. Select **RECYCLE SET** to select the number of times that the scanner will read the next ballot inserted into the Model 100.

To test the scanner

Select **FEED BALLOTS** and insert ballots into the scanner. If the scanner successfully reads the ballot, the ballot emerges from the back of the scanner and drops into the ballot box. If the scanner detects ballot irregularities, the scanner rejects the ballot and a system error message appears.

The Ballot Diagnostics menu

```
S-MODE          BALLOT DIAGNOSTICS
                TOTAL BALLOTS  0000

DIGITAL     MARKS      GRAPHICS     PREVIOUS
REPORTS     TALLY        PRINT        MENU
```

After scanning test ballots, use the report options available under the **BALLOT DIAGNOSTICS** menu to check the scanner's accuracy. **BALLOT DIAGNOSTICS** options print reports that describe the last ballot scanned. Available options include: **DIGITAL REPORTS, MARKS TALLY,** and **GRAPHICS PRINT.**

To print diagnostics reports

1. [redacted]

2. [redacted]

   - [redacted]
   - [redacted]
   - [redacted]
   - [redacted]

   [redacted]

   [redacted]

3. [redacted]

[redacted]

A:	034,	040,	048
B:	092,	098,	046
C:	151,	157,	048

[redacted]

[redacted]

D:	012,	018,	048
E:	071,	077,	048
F:	129,	135	,048
TT:	201,	207,	050

[redacted]

[redacted]

[redacted]

The System Settings Menu

Use **SYSTEM SETTINGS** options to calibrate the scanner and set the system clock. You must install your election definition PC Card before you activate the scanner to alter scanning options.

System Settings Menu

S-MODE	SYSTEM SETTINGS		
THRHLDS	DATE TIME	CALIBRATE DACS	PREVIOUS MENU

1. Select **THRHLDS** to access the **MULTI SHEET** option, which you can use to test the scanner's multi-sheet sensor.

   Note: The multi-sheet sensor prevents the scanner from accepting two ballots at the same time. For more information about testing the multi-sheet sensor, see Chapter 4.

2. Select **DATE TIME** and select from the following options to adjust the system time, date, and time zone.

   - **Set Date:** sets the current date according to the current time zone.
   - **Set Time:** sets the current time according to the current time zone.
   - **Set Time Zone:** sets the time zone for the polling site.

Date/Time Menu

S-MODE	DATE TIME		
SET DATE	SET TIME	SET ZONE	PREVIOUS MENU

3. Only qualified, ES&S technical support staff should select the **CALIBRATE DACS** option.

The Election Test Menu

Use options from the **ELECTION TEST** menu to verify the election definition and check the system counting logic. The Model 100 does not store results for any of the ballots scanned during the election test and the scanner clears any existing election totals when you enter the **ELECTION TEST** menu. The scanner restores any existing, official results to the PC Card after you exit the **ELECTION TEST** menu. The three options available in the **ELECTION TEST** menu are **TEST BALLOT, REPORTS,** and **ZERO TOTALS**.

Election Test Menu

```
S-MODE              ELECTION TEST MENU

 TEST                          ZERO              PREVIOUS
BALLOT        REPORTS         TOTALS               MENU
```

1. From the **ELECTION TEST** menu, select **TEST BALLOTS** to open the **BALLOT TEST** menu. From the **BALLOT TEST** menu, select **FEED BALLOTS**, and then insert test ballots into the scanner as you would for a normal election.

Election Test Insert Ballot

```
S-MODE        ELECTION TEST INSERT BALLOT
NUMBER OF VOTERS: 0

                                          PREVIOUS
```

2. After you finish scanning test ballots, select **PREVIOUS** to navigate backwards through Model 100 menus until you return to the **ELECTION TEST** menu. From the **ELECTION TEST** menu, select **REPORTS** to open the **ELECTION REPORTS** menu. Use the three options available from the **ELECTION REPORTS** menu (**SEND RESULTS, REPORTS,** and **PAPER FEED**) to generate test reports from the Model 100.

   Note: For more information about using the **PAPER FEED** command, see Appendix A, "Maintaining the Counter." For information about transferring election results over a network, see Chapter 5, "Election Day Tasks."

Election Reports Menu

S-MODE	ELECTION REPORTS		
SEND RESULTS	REPORTS	PAPER FEED	PREVIOUS MENU

3. From the **ELECTION REPORTS** menu, select **REPORTS** to open the **PRINT REPORTS** menu. From the **PRINT REPORTS** menu, you can generate a Poll Report, a Precinct Report or a Status Report. For samples and descriptions of the available reports, see Appendix B, "Understanding Reports."

Print Reports Menu

S-MODE	PRINT REPORTS	
PRECINCT REPORT	STATUS REPORT	PREVIOUS MENU

4. From the **ELECTION TEST** menu, select **ZERO TOTALS** to set the test totals stored in system memory to zero.

Using the Ballot Auto-read Option

Use the Model 100 auto-read option for diagnostic purposes to select the number of times the scanner reads a single ballot. You can run a series of ballots and change the number of times the scanner processes each ballot.

To activate the auto-read option

1. From the **DIAGNOSTIC-TEST** menu, select **ELECTION TEST** to open the **ELECTION TEST** menu.

2. From the **ELECTION TEST** men, select **TEST BALLOT** to open the **BALLOT TEST** menu.

3. From the **BALLOT TEST** menu, select **AUTOREAD SETTINGS** to open the **AUTOREAD SETTINGS** menu. Use **AUTOREAD SETTINGS** options to set the number of times the Model 100 automatically scans the next inserted ballot. You can also configure the scanner to process ballots multiple times based on ballot style. For example, you can select a ballot style and enter a number to direct the scanner to process the next ballot it detects that falls within the specified style the number of times that you specify.

4. Press **SELECT DIGIT** to specify the number of times the Model 100 will scan the selected ballot. Press **PLUS** or **MINUS** to increase or decrease the number.

5. Press **PREVIOUS MENU** to navigate back to the **TEST BALLOT** menu and press **FEED BALLOTS** to open the **AUTOREAD** menu.

6. Insert the ballot that you want to scan. The Model 100 automatically scans the ballot the number of times that you specified in the **AUTOREAD SETTINGS** menu.

7. Press **STOP** to cancel ballot processing. Re-insert the ballot to restart the scanning process. Press **RESET** to clear the **CURRENT COUNT**. Press **PREVIOUS** to return to the **BALLOT TEST MENU** when you finish processing ballots.

   Note: From the **BALLOT TEST MENU**, press **AUTOREAD SETTINGS** to change the number of scan cycles for each ballot that you want to scan.

Polls Open Mode

Open the polls to begin scanning official ballots on Election Day.

To open the polls

Press **PREVIOUS** to navigate backwards through Model 100 menus until you see the message "ELECTION CARD INSERTED OPEN POLLS NOW?" on the display screen. Press **YES** and turn the key to VOTE to open the polls.

The scanner performs a series of internal system checks and displays the results. If any of the checks fail, the scanner rejects the loaded election definition and defaults to the main menu.

If the system checks out, the Model 100 automatically sets election totals to zero and prints a Status Report and then a Zero Totals report. The Zero Report lists all active races, and shows the current vote count for all of the contests and issues included on the ballot. The scanner automatically shuts down if it fails to properly clear votes from system memory. If necessary, you can generate multiple zero reports with certification statements.

After the scanner completes its automatic checks and prints initial reports, the message, "INSERT BALLOT" appears on the display screen. Voters can now insert ballots into the scanner and the Model 100 saves the results to the inserted PC Card.

Insert Ballot Screen

```
INSERT BALLOT

NUMBER OF VOTERS: 0
```

To print an audit log report with the polls open

1. To print a log report without closing the scanner, open the Key Access Panel and turn the control key to the OPEN/CLOSE POLL position. The **AUDIT LOG-REPORT** option appears next to the **CLOSE POLLS** option.
2. Select **AUDIT-LOG REPORT** to print the log.
3. Turn the key back to the **VOTE** position after the report prints to enable voting.

To enable additional precincts with the polls open

1. To enable additional precincts without closing the scanner, open the Key Access Panel and turn the key to the OPEN/CLOSE POLL position. The **AUDIT LOG-REPORT** option appears next to the **CLOSE POLLS** option.
2. Press the far left button on the control panel (it does not have a label) to open the **ENABLE PRECINCTS** menu.
3. Select **NXT-PREC** to advance through a list of available precincts.
4. Select **ENABLE** for each precinct that you want to activate. After you enable a precinct, the precinct remains active for the duration of the election or ballot test. If you activate a precinct for testing, the scanner reverts to the previous settings after you exit the test menu.
5. Select **PREVIOUS** navigate backwards through Model 100 menus until you reach the **CLOSE POLL** option, and then turn the key to the VOTE position to activate the scanner for voting.

To close the polls

1. At your jurisdiction's assigned closing time, turn the scanner control key to OPEN/CLOSE POLL position to access the **CLOSE POLLS** option.
2. Press **CLOSE POLLS** to close the Model 100 for voting. The scanner does not save any ballot totals to the PC Card after you close the polls.

   Note: Depending on how you configured your election definition, the scanner may automatically print a results report and a certification report after you close the polls. Press **CANCEL** to abort the printing. You can print additional copies of any automatic reports from Polls Closed mode.

Polls Closed Mode

Activate POLLS CLOSED mode to generate results reports, print the system audit log and to transfer election results to your reporting software.

Polls Closed Menu

```
S-MODE              POLLS CLOSED

RESULTS     SEND      AUDIT-LOG
REPORTS     RESULTS   REPORT              MORE
```

1. Open the key access panel and turn the control key to the OPEN/CLOSE POLL position to access the **POLLS CLOSED** menu.

2. The options available from the **POLLS CLOSED** menu include: **RESULTS REPORT, SEND RESULTS, AUDIT-LOG REPORT** and **MORE**. For more information about all of the commands available on this menu, except the **MORE** option, see "The Election Test Menu" earlier in this appendix.

   Note: For more information about the **SEND RESULTS** option see "Closing the Polls" in Chapter 5. Use the **SEND RESULTS** option to transfer results over a network to a computer running election reporting software at your election headquarters.

3. Select **MORE** to open the **MORE SELECTIONS** menu. Options available from the **MORE SELECTIONS** menu include: **RE-OPEN POLLS, MORE REPORTS** and **PAPER FEED**. Select **PAPER FEED** to advance the printer paper by one line. For more information about the **RE-OPEN POLLS** option, see Chapter 5, "Election Day Tasks."

4. Select **MORE REPORTS** and enter a password (if necessary) to open the **MORE REPORTS** menu. The three options available in the **MORE REPORTS** menu include: **CHANGE TYPE, PRECINCT REPORTS** and **POLL REPORT**.

5. Select **CHANGE TYPE** to select either media or summary as the report type. See Appendix B, "Understanding Reports," for more information about report types.

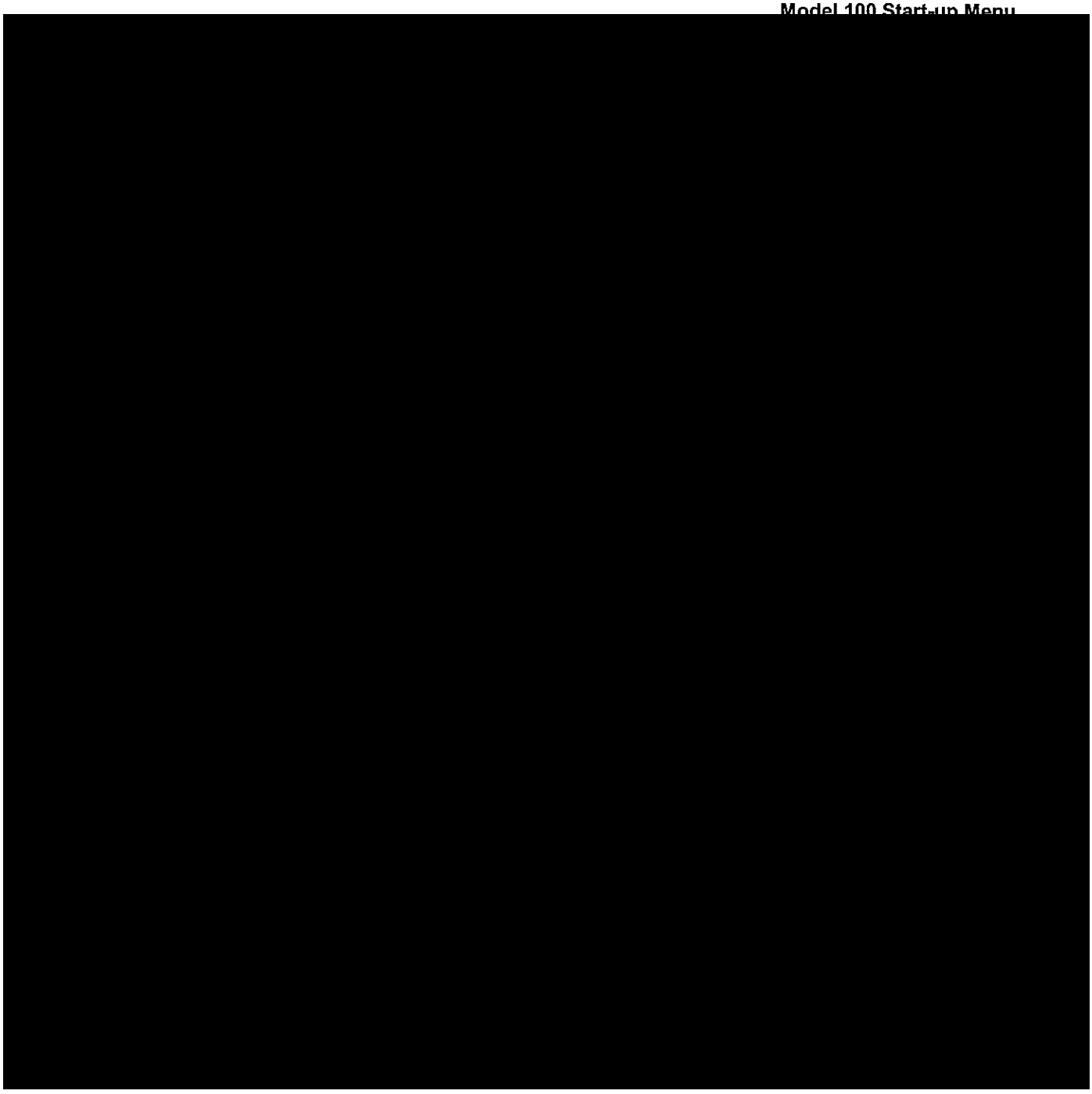
6. Select **PRECINCT REPORTS** to print a 'precinct by precinct report.' For more information and examples of report types, see Appendix B, "Understanding the Reports."

7. Select **POLL REPORT** to print an election poll report. For more information and examples of report types, see Appendix B, "Understanding the Reports."

Model 100 Menu Flow Charts

Start-up Menu

Model 100 Start-up Menu



Diagnostic Menu

System Settings

System Settings

[redacted]

Calibration Menu

Calibration Menu

[redacted]

Election Test Menu

Election Test Menu

[redacted]

Opening and Closing Polls Menu

[redacted]

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 202

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-611(1)(c)	No nonpunch card electronic voting system shall be purchased, leased, or used unless it fulfills the following requirements: It rejects any vote for an office or on a ballot issue if the number of votes exceeds the number the elector is entitled to cast.	CC2-P3-202
		Test Date: 7/25/2007
		Test End Date/Time: 7/25/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the voting device will reject any vote for a race or contest if the number of votes exceeds the number of votes the elector is entitled to cast. (Vote for 1= 1 selection)

Prerequisites:

DB2-P3-201

Test Procedures:

Use election setup and voting from DB2-P3-201. Document findings.

Variances Used During Testing:

See test DB2-P3-201 for variances.

Test Expected Outcome

The vote system rejects overvotes for all types of races.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 202

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 202

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	No ☒ Yes ☐	Videos (list all videos)	No ☐ Yes ☒	Photos (list all photos)	No ☐ Yes ☒
		See DB2-P3-201.		See attached	

Acceptable Compensating Controls

Results Summary	Final Test Status
The voting system fails to meet the requirements.	FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T Bishop	John Gardner
Printed name	Printed name	Printed name
Signature: Jerome Lovato — Date: 9/20/07	Signature: T Bishop — Date: 9-20-07	Signature: [illegible] — Date: 9/20/07

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 202

Additional Observations and Findings

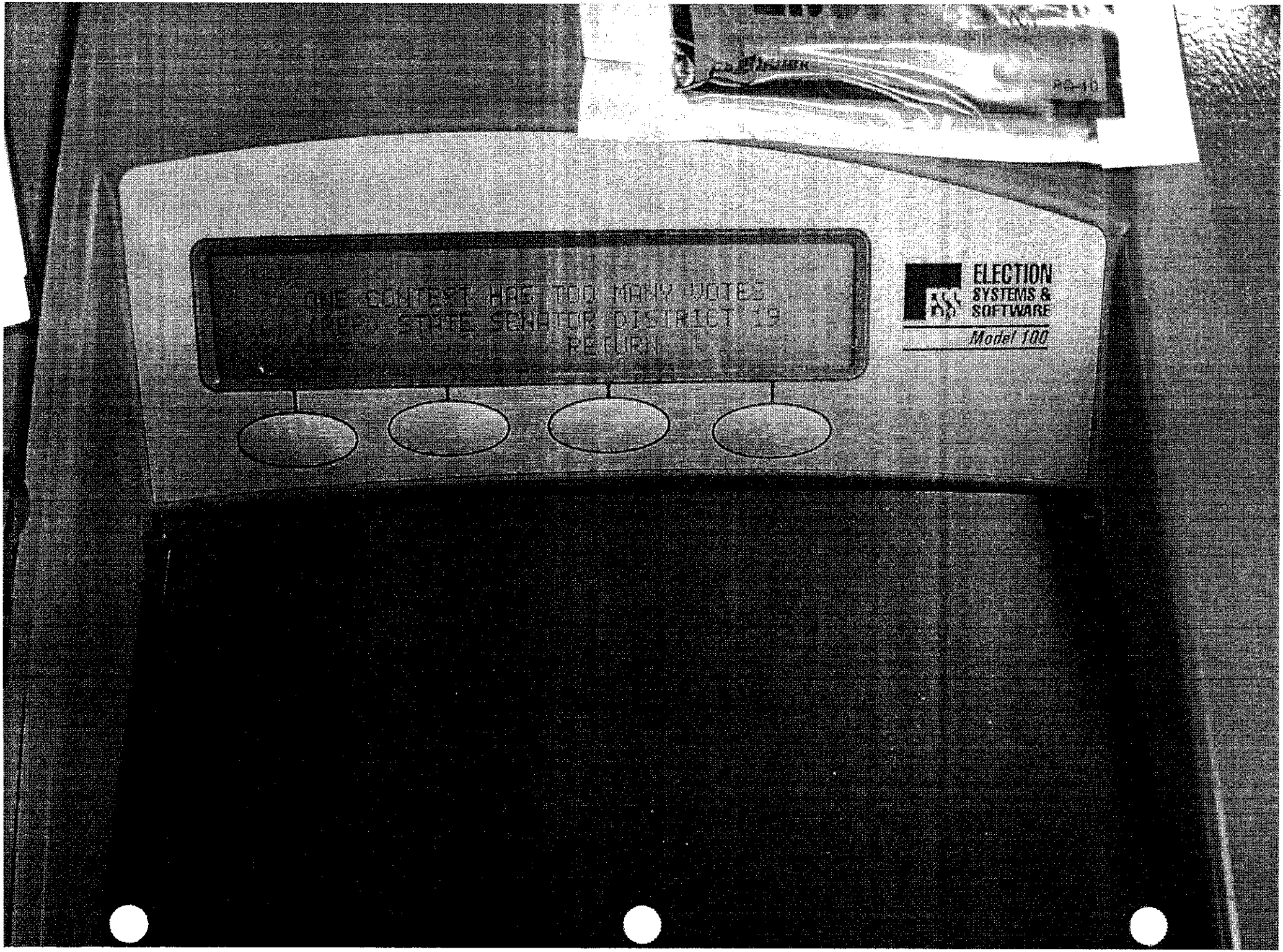
Observations:

See notes on DB2-P3-201. The voting system does reject overvotes for all types of races. See attached photos for messages presented on device. Due to the large number of problems experienced with the coordinated election, the testing board was unable to complete testing on this device.

Findings:

The voting system fails to meet the test requirements.

1st Review		2nd Review		Supervisor Approval	
Jerome Lovato		T. Bishop		John Gardner	
Printed name		*Printed name*		*Printed name*	
Signature	*Date* 9/20/07	*Signature*	*Date* 9-20-07	*Signature*	*Date* 9/20/07


ONE CONTEST HAS TOO MANY VOTES
STATE SENATOR DISTRICT 19
RETURN
ELECTION
SYSTEMS &
SOFTWARE
Model 100

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 203

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-615(1)(k)	No electronic or electromechanical voting system shall be certified by the secretary of state unless such system: Provides a method for write-in voting.	CC2-P3-203
		Test Date 8/16/2007
		Test End Date/Time 8/17/2007
Cross Reference 1		Test Type (D,F,B) Functional
		Eq Type PCOS
Cross Reference 2		Equipment Model M100
		Serial number 204157
Cross Reference 3		Manufacturer ES & S

Purpose:

The purpose of this test is to verify that the voting system allows for a method of write-in voting.

Prerequisites:

DB3-P3-307, completion of deck ESS 1CO, ESS 1CA; CC3-P3-338.

Test Procedures:

Use election setup and voting from DB2-P3-201. Document findings for voting write-in candidate. Use Coordinated election, race for county commissioner district 1.

Variances Used During Testing:

N/A

Test Expected Outcome

The voting system will provide a method for write-in voting on both paper ballots and DRE.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 203

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 203

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☐ Yes ☒	No ☐ Yes ☒
	See DB2-P3-201	See CC3-P3-338

Acceptable Compensating Controls

Results Summary

The voting system fails to meet the requirements.

Final Test Status

FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lowes	T Bishop	John Gardner
Printed name	Printed name	Printed name
Jerome Lowes	T Bishop	
Signature	Signature	Signature
9/20/07	9-20-07	9/20/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 203

Additional Observations and Findings

Observations:

See notes on DB2-P3-201, using deck ESS 1CO, and ESS 1CA. The voting system has allowances for write-in votes printed on the ballots however the testing board was unable to complete the testing on the device due to the large number of errors when attempting to process the ballots through the device.

Findings:

The voting system fails to meet the test requirements.

1st Review	2nd Review	Supervisor Approval
Simone Lewis	T Bishop	John Gardner
Printed name	*Printed name*	*Printed name*
Simone L Lewis	T. Bishop	
Signature	*Signature*	*Signature*
9/20/07	9-20-07	9/20/07
Date	*Date*	*Date*

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CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 204

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-407(1.5)	A duplicate stub is not required for a ballot that is prepared for a mail ballot election pursuant to article 7.5 of this title.	CC2-P3-204
		Test Date: 7/25/2007
		Test End Date/Time: 7/25/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that ballots can be processed without a duplicate stub as indicated herein.

Prerequisites:

N/A

Test Procedures:

Document findings of ballots provided from voting system vendor.

Variances Used During Testing:

N/A

Test Expected Outcome

Duplicate stubs will not be a requirement of the voting system.

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election		CC2-P3 - 204

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
7.25.07		Geneie	In documentation there is no mention that duplicate stubs are necessary. Attached documentation from EMS on how to create stubs. Stubs were on the ballots and were removed before being read.	

Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election		CC2-P3 - 204

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	No ☐ Yes ☒	Videos (list all videos)	No ☐ Yes ☐	Photos (list all photos)	No ☐ Yes ☒
Doc 1				Photo #1	

Acceptable Compensating Controls

Results Summary	Final Test Status
Test Meets Expected Outcome	P

1st Review	2nd Review	Supervisor Approval
Genevice Mathews	Michael L. Chadwell	John Gardner
Printed name	Printed name	Printed name
Genevice Mathews	Michael L. Chadwell	
Signature	Signature	Signature
7-25-07	9.11.07	9/13/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election		CC2-P3 - 204

Additional Observations and Findings

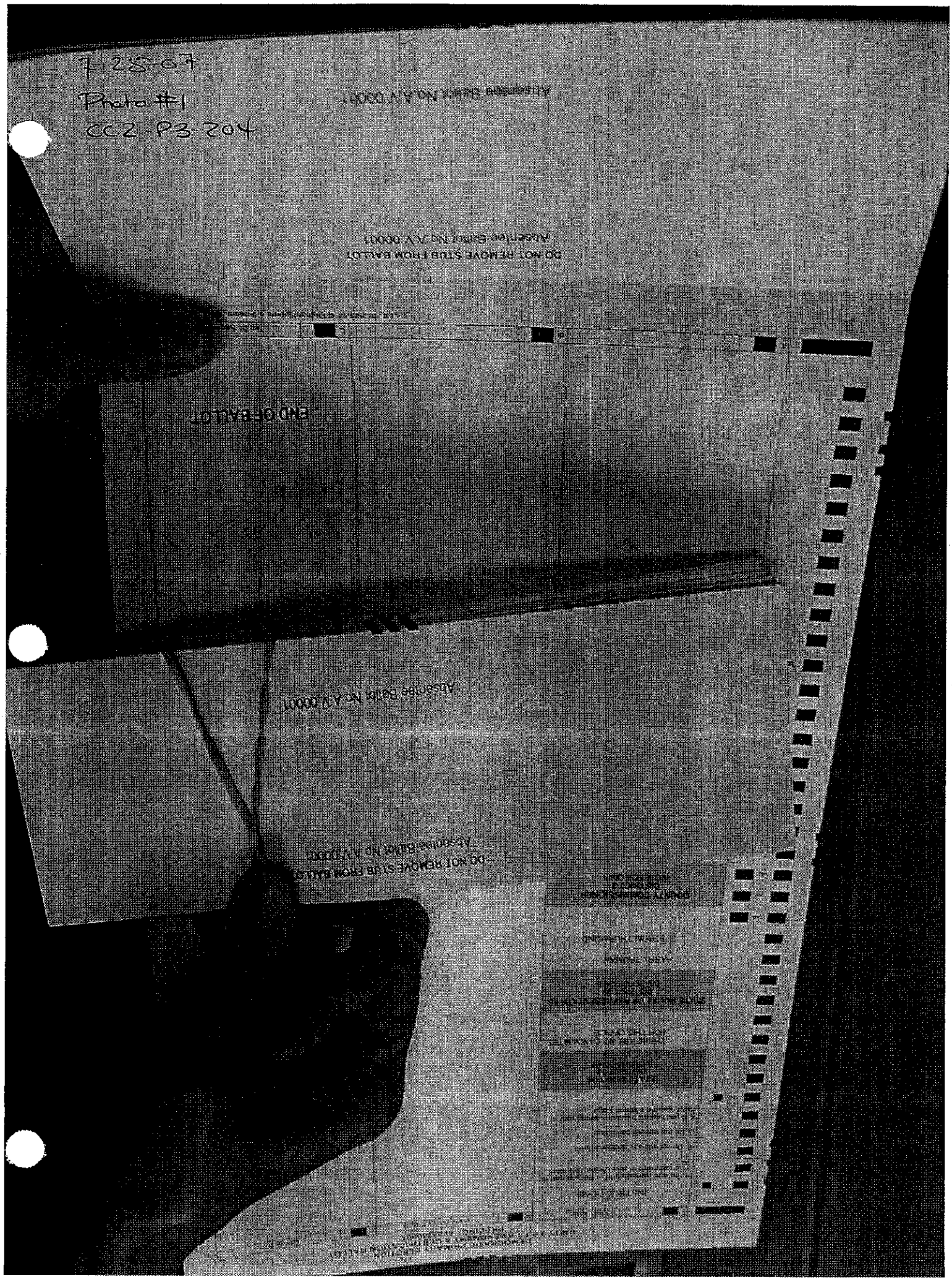
Observations:

Findings:

Duplicate stubs are not a requirement of the voting system.

1st Review		2nd Review		Supervisor Approval	
Geneice Mathews		Michael L. Chadwell		John Gardner	
Printed name		*Printed name*		*Printed name*	
Signature	*Date* 7-25-07	*Signature*	*Date* 9.11.07	*Signature*	*Date* 9/13/07

7-28-07
Photo #1
CC2 P3 204



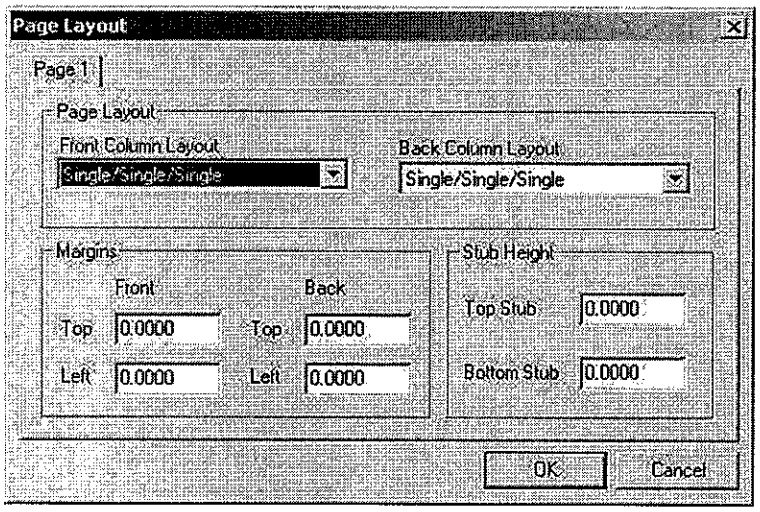
ESSIM documentation (User guide) V.7.4
7-25-07

Configuring a Ballot Page Layout

Use the **Page Layout** command under the **Ballot** menu to select the number of columns that appear on the front and back of the ballot, configure ballot margins and format ballot stubs.

To format a ballot page

1. Under the **Ballot** menu, select **Page Layout** to format the appearance of your ballots.



2. From the **Front Column Layout** and **Back Column Layout** lists, select from the following options to format the columns on the front and back of your ballots:

   - **Single:** Select **Single** to place a single column that takes up a third of a ballot page on the front or back of your ballots. Select **Single/Single/Single** to place three evenly spaced columns on your ballots.

   - **Double:** Select **Double** to place a column that spans two single columns on the front or back of your ballots.

   - **Triple:** Select **Triple** to place a column that spans three singled columns on the front or back of your ballots. If you use 8.5-inch wide ballots, a triple column takes up the entire ballot face.

   Note: The column combinations available in the **Front Column Layout** list and **Back Column Layout** list depend on what ballot measurements you select from the **Ballot Size** list in the Ballot Setup window.

3. Under the **Margins** heading, in the **Front Top, Front Left, Back Top** and **Back Left** boxes, type measurements, in inches, to set the page margins for your ballots.

4. Under the **Stub Height** heading in the **Top Stub** box or **Bottom Stub** box, type a distance, in inches, to set the size of your ballot stub. Type a measurement in the **Top Stub** box to place stubs at the top of your ballots. Enter a measurement in the **Bottom Stub** box to place stubs at the bottom of your ballots.

   Note: A ballot stub is a non-readable portion of a ballot removed by poll workers for registration purposes. Ballot stubs usually contain at least one identification number (such as a precinct identification number or sequence code number) and sometimes contain ballot instructions or other ballot text. Use a production frame to place identification numbers or text on ballot stubs and use a graphic frame to place marks at the edge of the stub where your printer will perforate the ballot for easy tearing.

Recommended Page Layout Settings

Ballot Type	Ballot Size	Front Column Layout	Back Column Layout	Oval Position	Oval Width	Overlay
AIS Precinct Count (New Oval)	14" 36 Rows 216 Ovals	Single/ Single/Single	Single/ Single/Single	Left	2	None

Recommended Ballot Margins and Stub Height

Top Front Margin	0.25
Top Back Margin	0.25
Left Front Margin	0.25
Left Back Margin	0.25
Top Stub	0.000000
Bottom Stub	0.000000

State of Colorado
Department of State
1700 Broadway
Suite 250
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Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 205

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-611(1)(f)(I)	No nonpunch card electronic voting system shall be purchased, leased, or used unless it fulfills the following requirements: If the system uses a voting device: It is suitably designed, of durable construction, and capable of being used safely, efficiently, and accurately in the conduct of elections and the tabulation of votes.	CC2-P3-205
		Test Date
		7/25/2007
		Test End Date/Time
		7/25/2007
Cross Reference 1		Test Type (D,F,B)
		Functional
		Eq Type
		PCOS
Cross Reference 2		Equipment Model
		M100
		Serial number
Cross Reference 3		204157
		Manufacturer
		ES & S

Purpose:

The purpose of this test is to verify the voting system is constructed as required herein.

Prerequisites:

N/A

Test Procedures:

Document findings of the voting systems construction and durability.

Variances Used During Testing:

N/A

Test Expected Outcome

The voting system will meet the following requirements:
1. Is of suitable design.
2. Is of durable construction.
3. Safe.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 205

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports
7-25-07			Please review photo's for durability, design and safety. Capable of running thousands of ballots without fear of safety, and ballot box remains intact.	

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 205

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Report
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 205

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 205

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☐ Yes ☐	No ☐ Yes ☐	No ☐ Yes ☒
		See attached

Acceptable Compensating Controls

Results Summary

Test Meets Expected Outcome

Final Test Status

P

1st Review	2nd Review	Supervisor Approval
Genelice Mathews	Michael L. Chadwell	[illegible]
Printed name	Printed name	Printed name
[signature]	[signature]	[signature]
Signature	Signature	Signature
7-25-07	9.11.07	9/13/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 205

Additional Observations and Findings

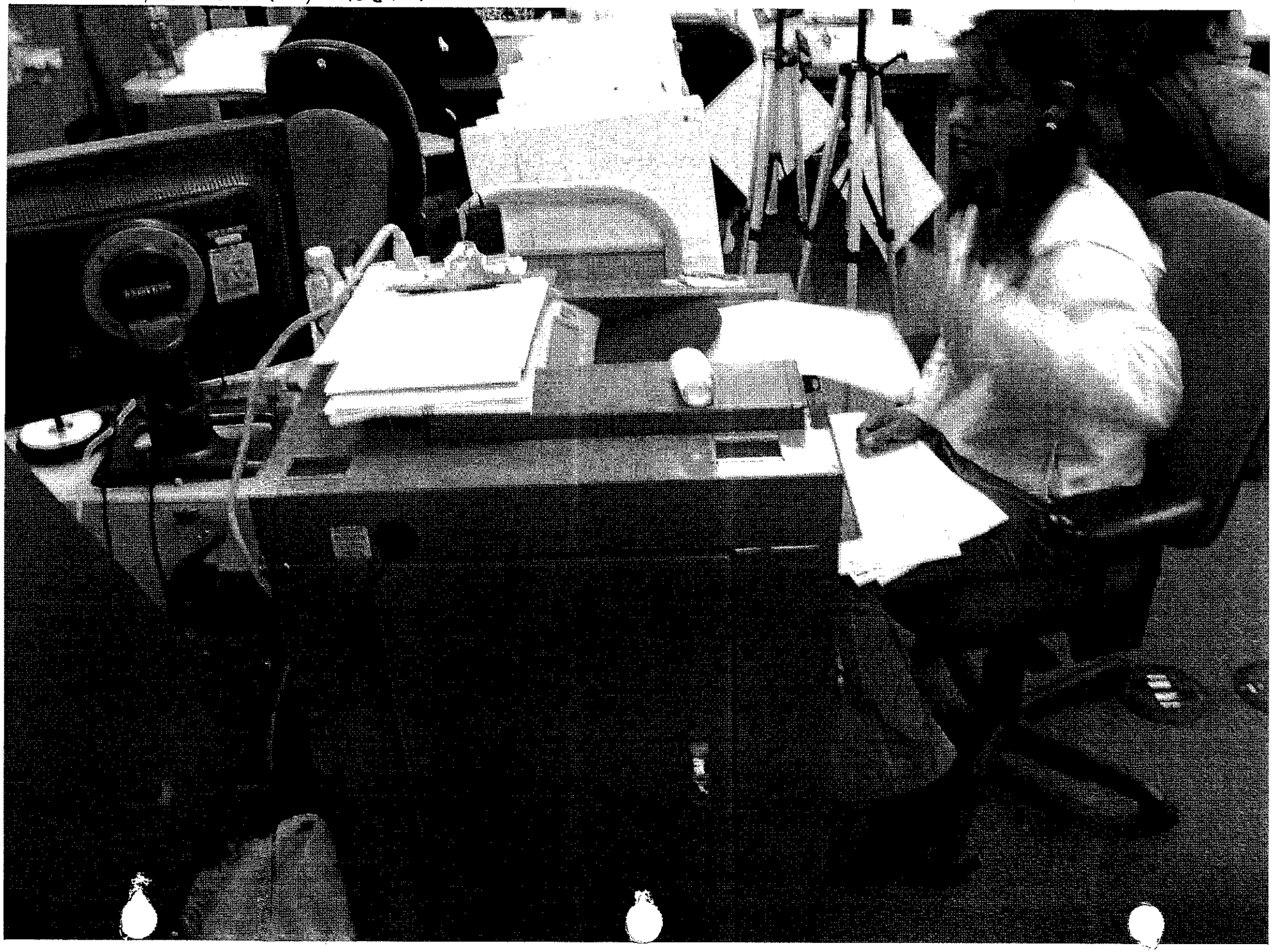
Observations:

Findings:

Voting system is of suitable design, safe and of durable construction.

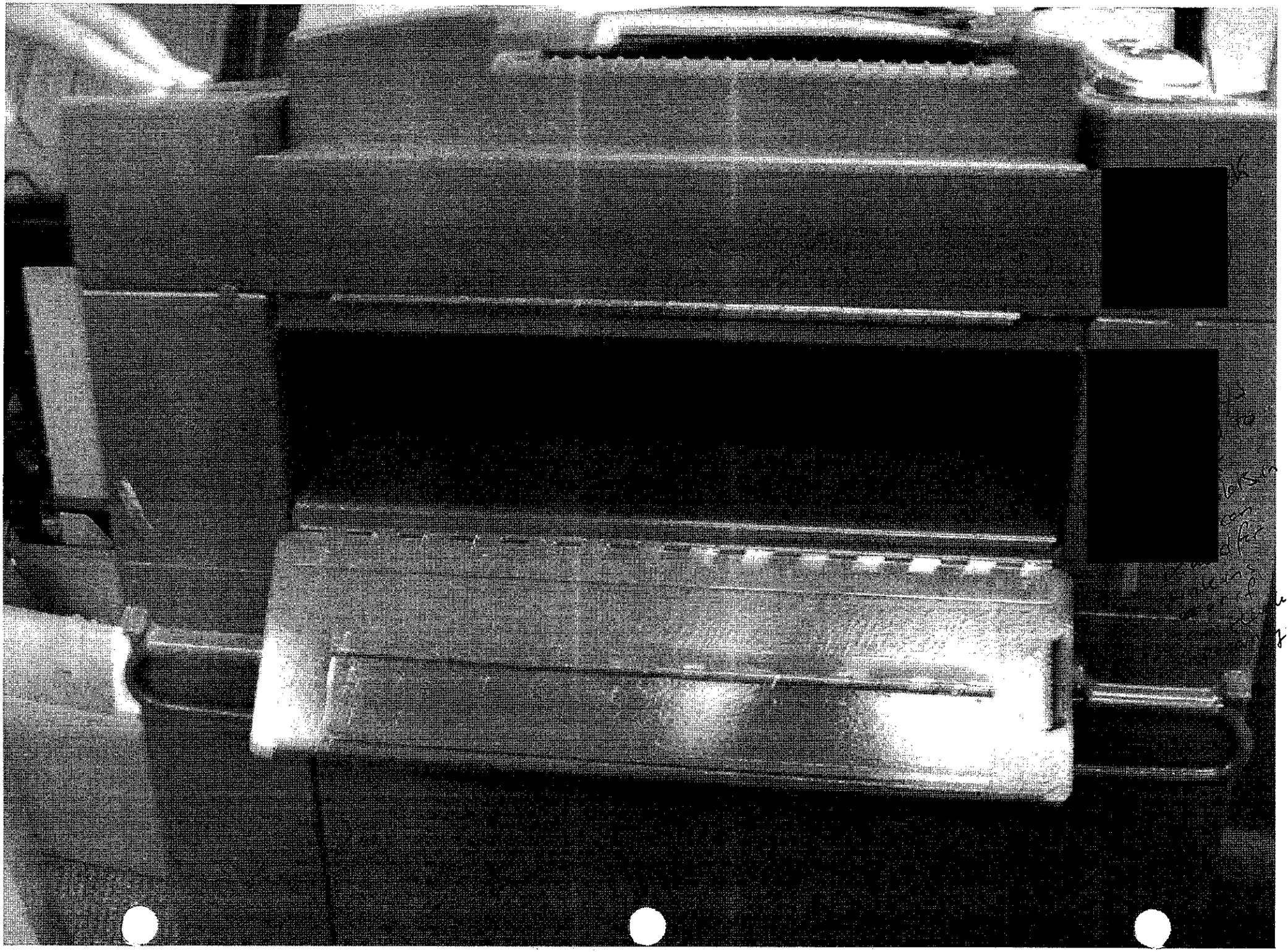
1st Review	2nd Review	Supervisor Approval
Geneice Mathews	Michael L. Chadwell	John Gardner
Printed name	*Printed name*	*Printed name*
Signature 7-25-07 *Date*	*Signature* 9.11.07 *Date*	*Signature* 9/13/07 *Date*

7-25-07 / Photo #1 / Test # CC 2-P3-205

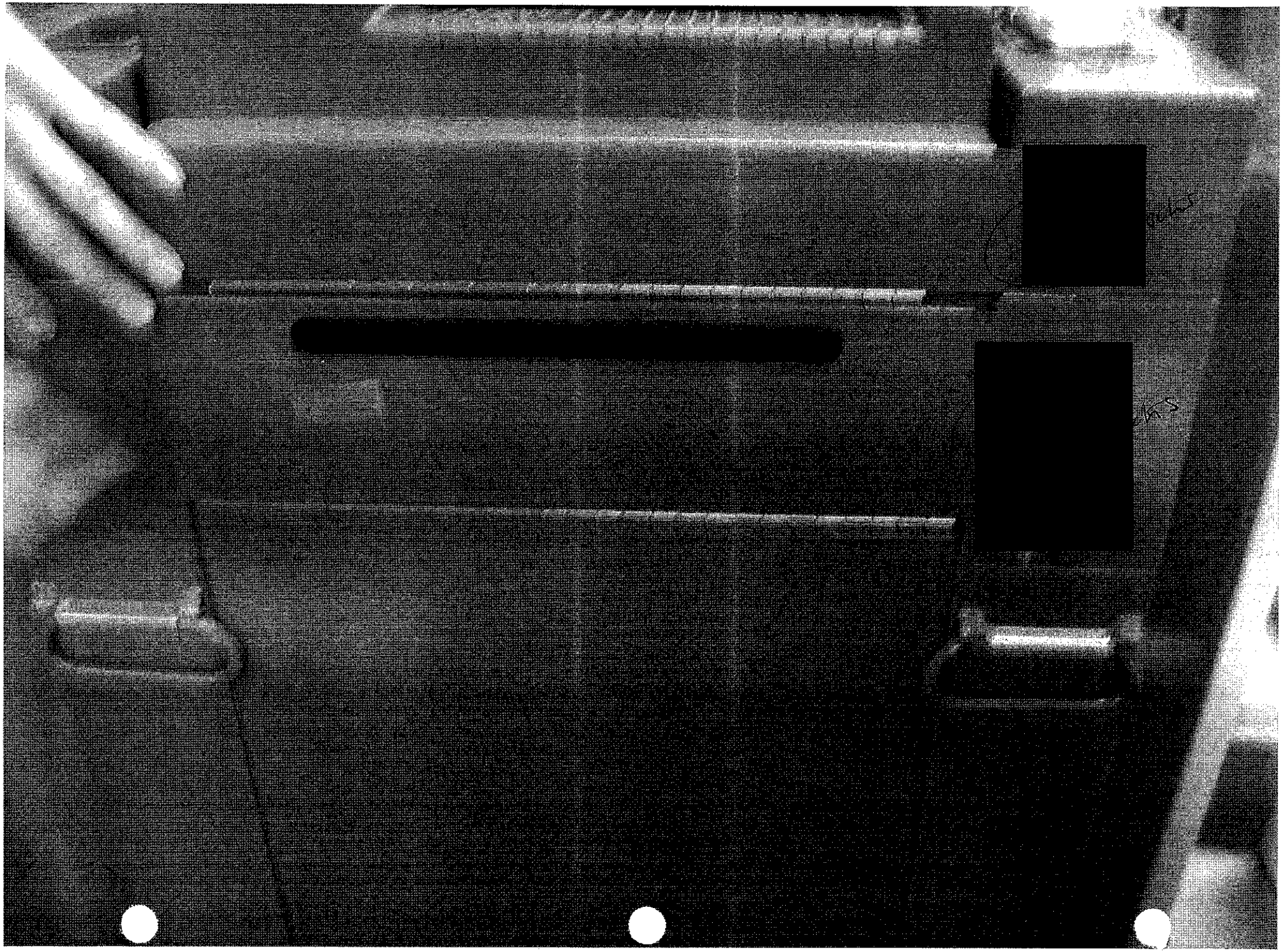


7-25-07 / Photo #2 / CC2-P3-205

7-25-07 Photo #3 CC2-P3-205

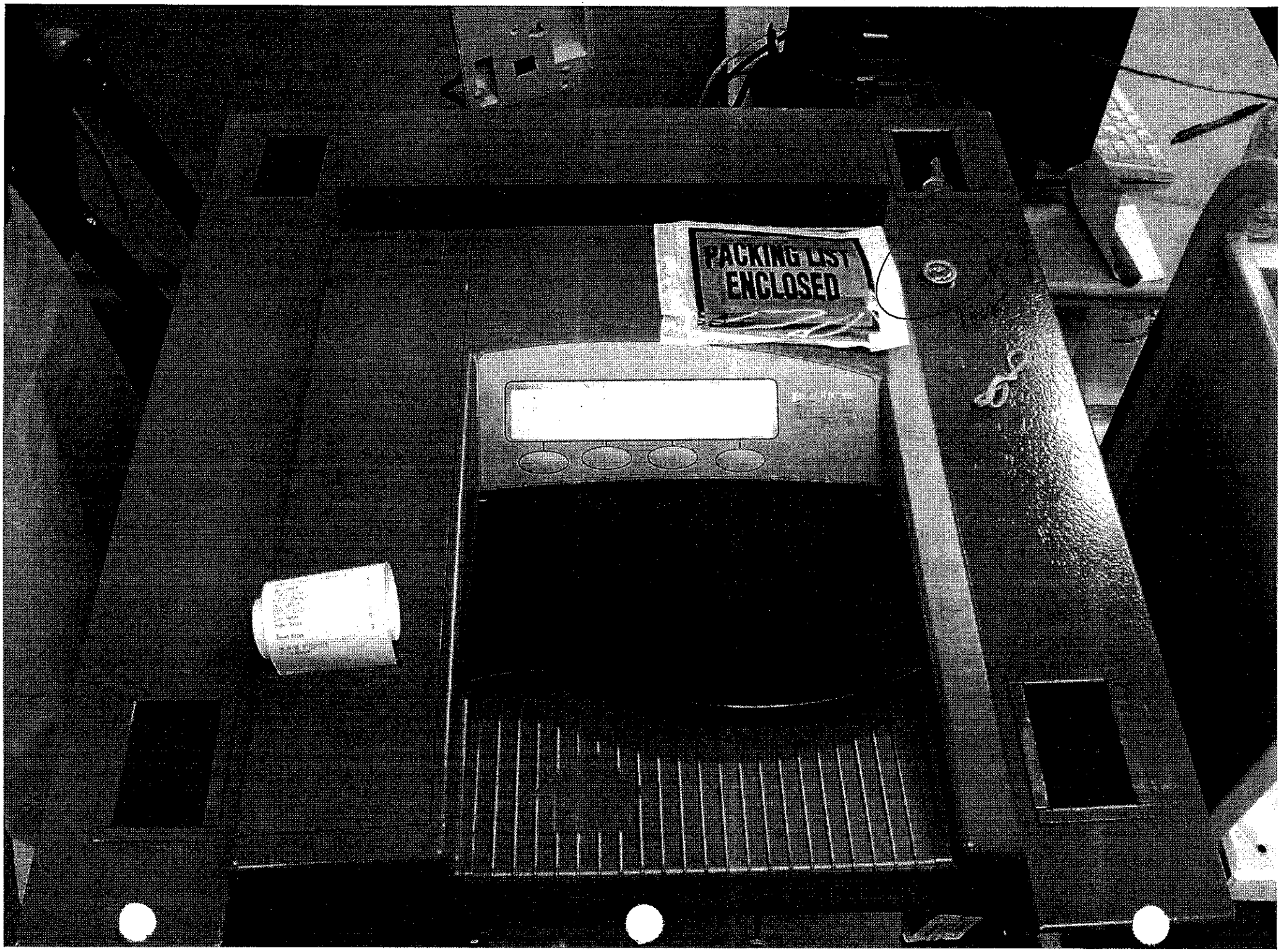


7-25-07 Photo # 4 CC2-P3-205

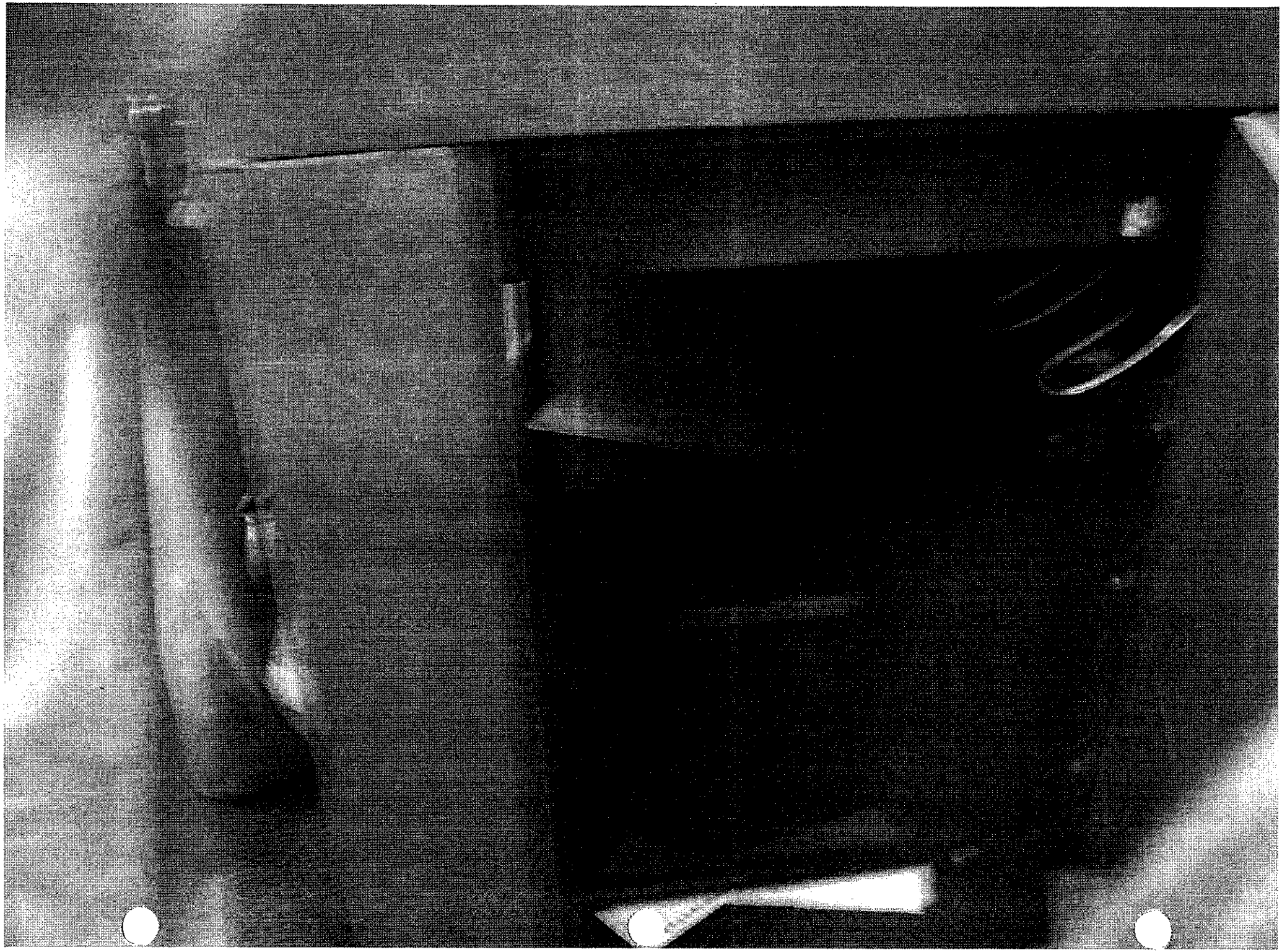


7-25-07 Photo # 5 CC2-P3-205

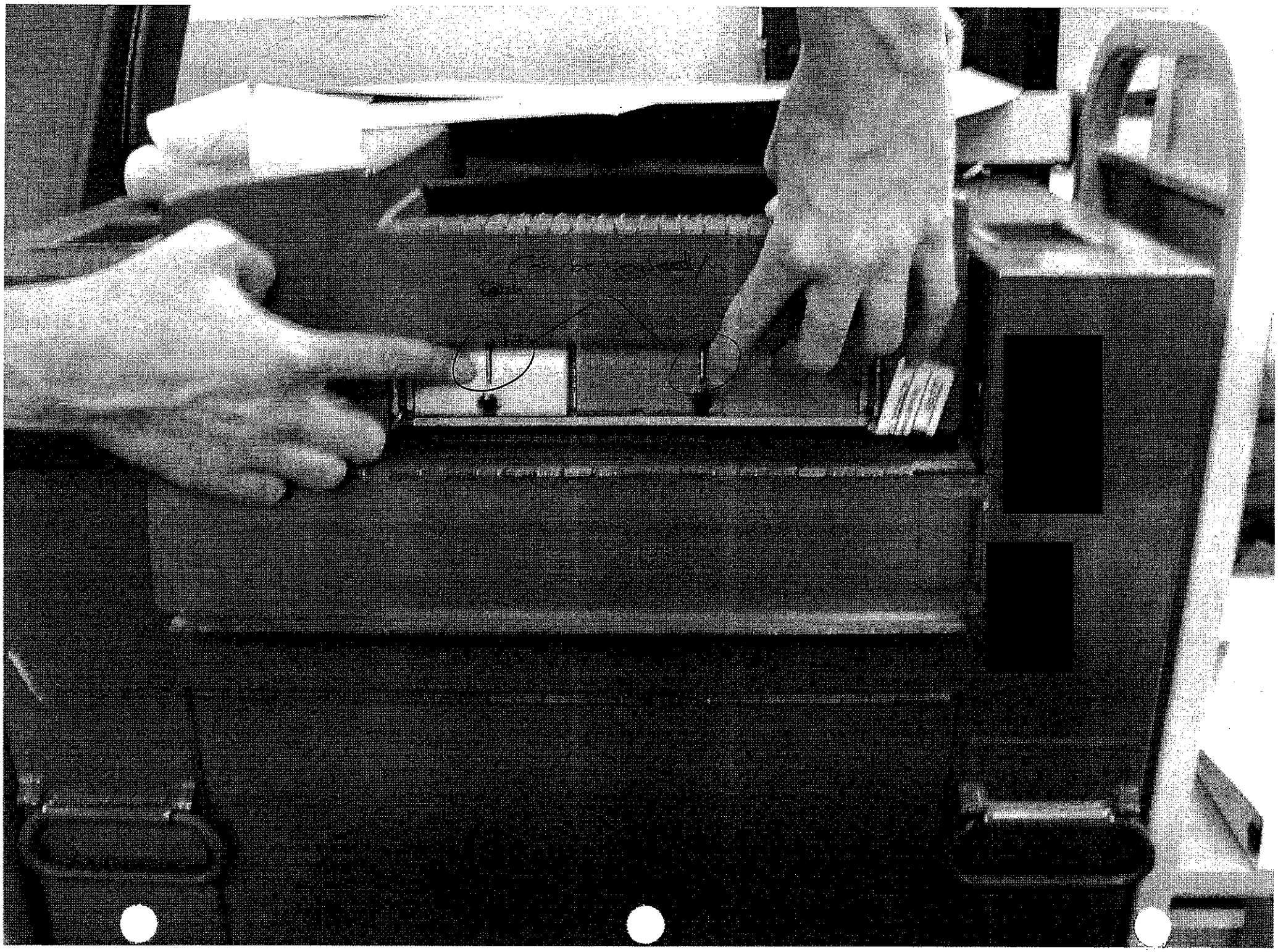
7-25-07 Photo #6 CC2-P3-205



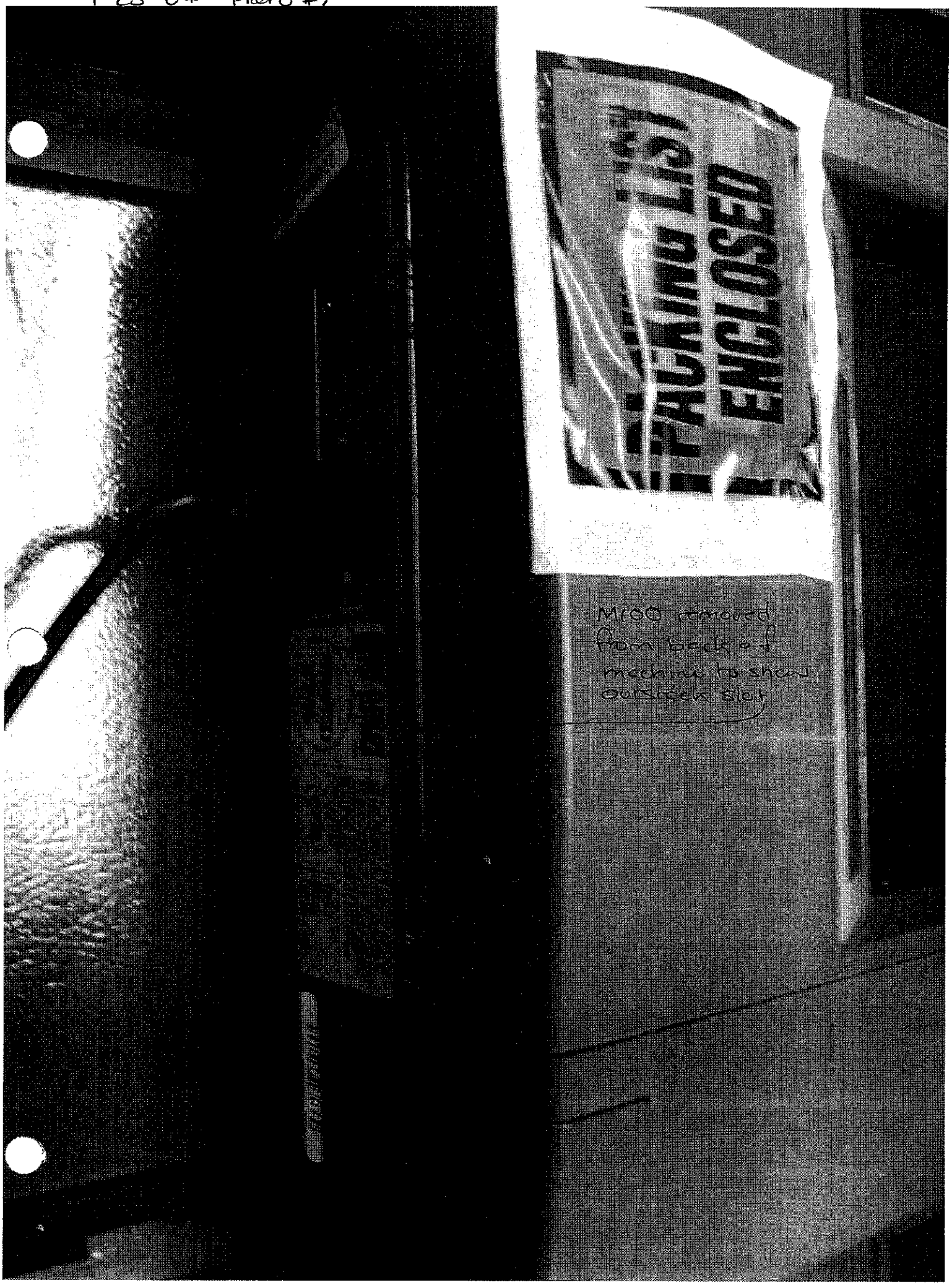
7-25-07 Photo #7 CC2-P3-205



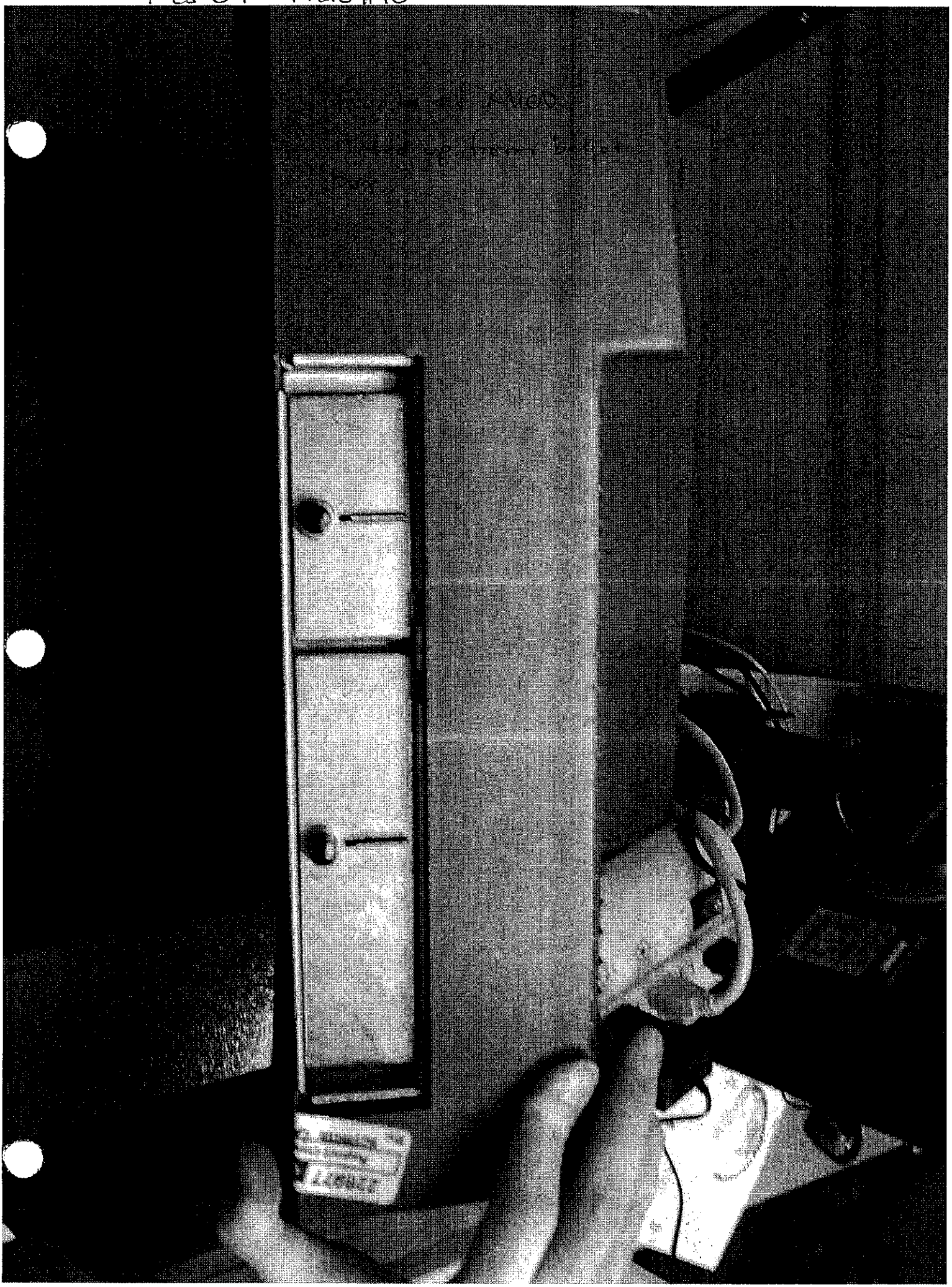
7-25-07 Photo # 8 CC2-P3-205



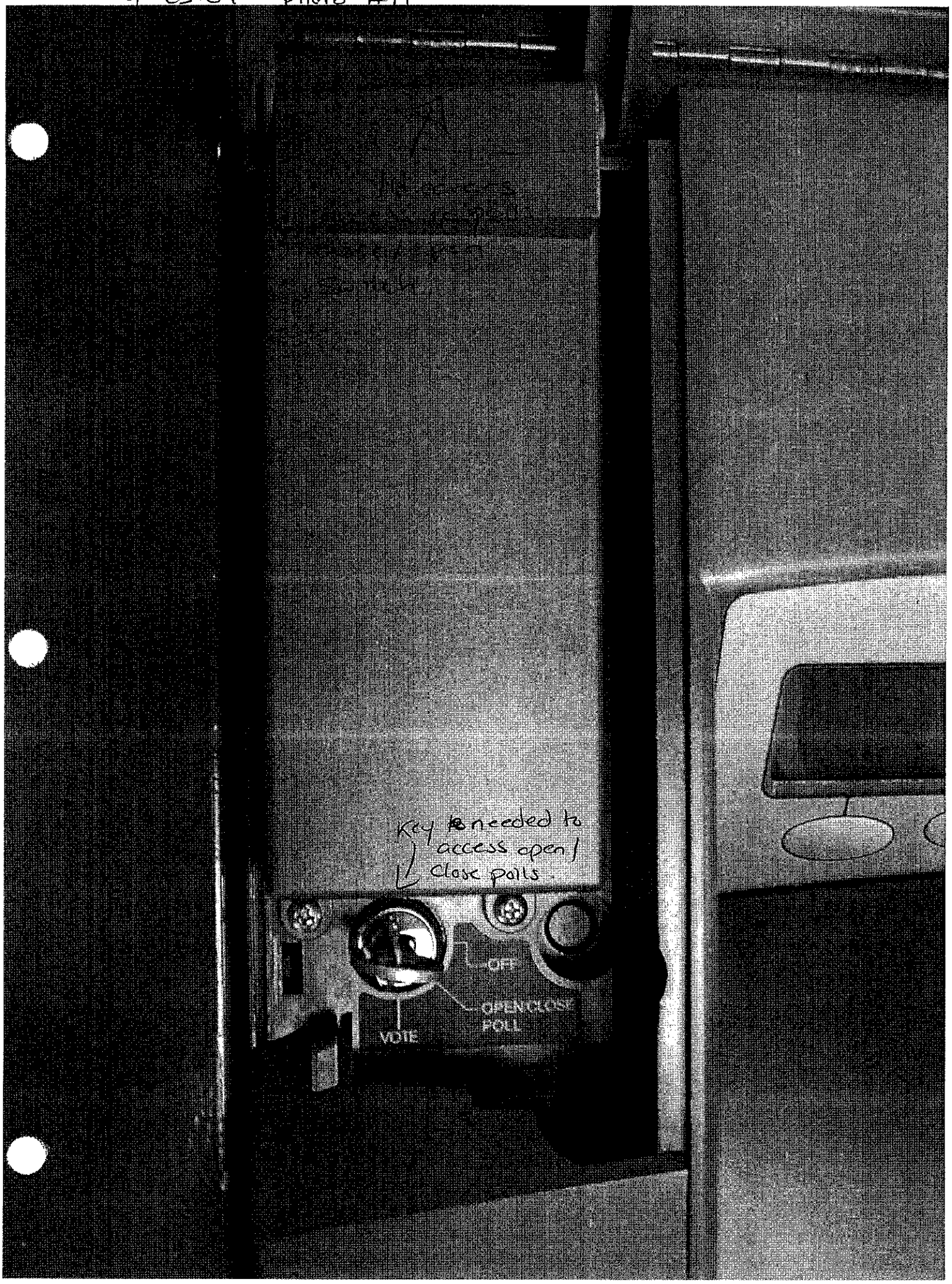
7-25-07 Photo #9



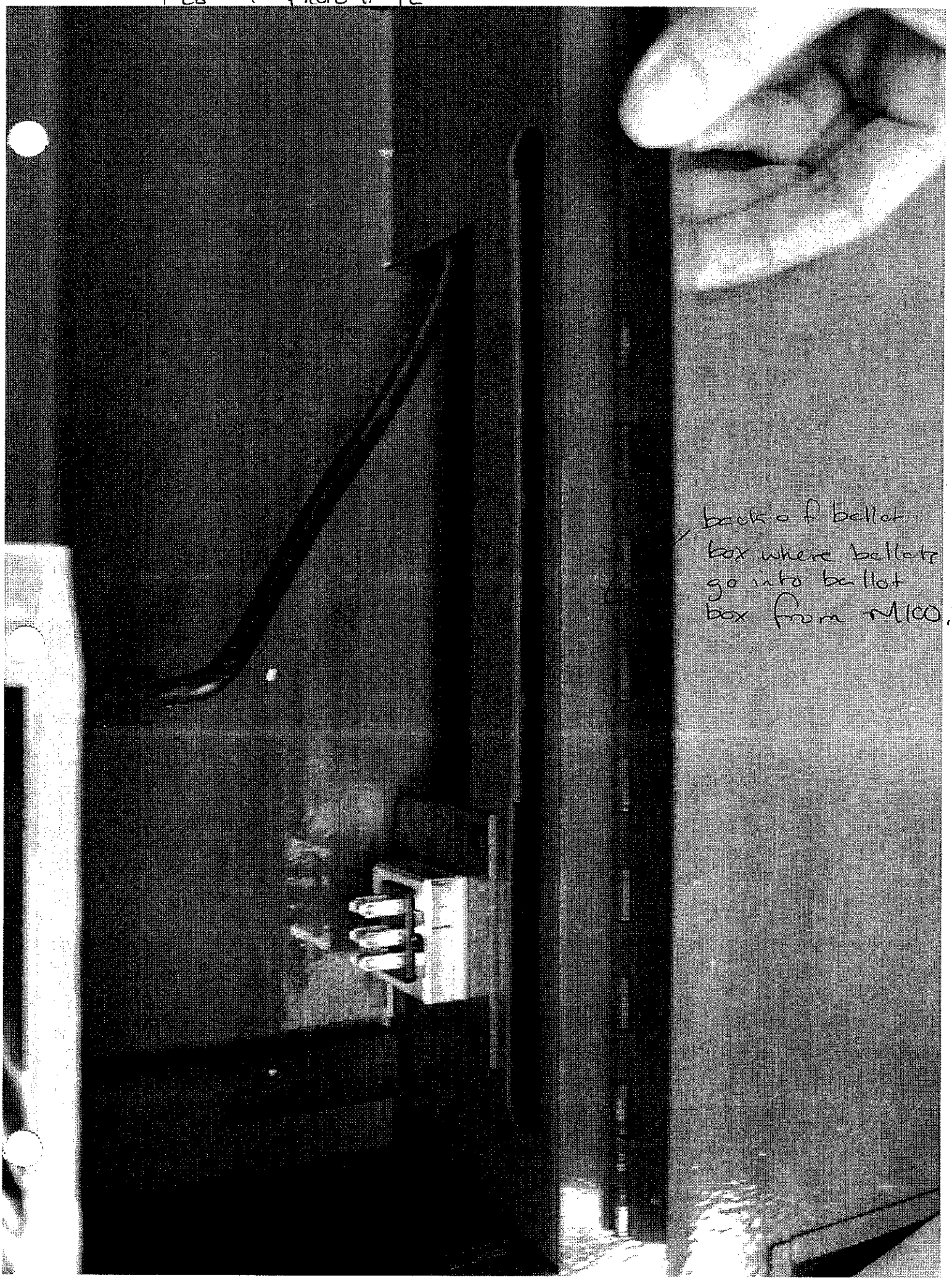
7-25-07 Photo #10



7-25-07 Photo #11



7-25-07 Photo # 12



State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 206

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-611(1)(e)	No nonpunch card electronic voting system shall be purchased, leased, or used unless it fulfills the following requirements: It prevents the elector from voting for the same candidates more than once for the same office;	CC2-P3-206
		Test Date 7/25/2007
		Test End Date/Time 7/25/2007
Cross Reference 1		Test Type (D,F,B) Functional
		Eq Type PCOS
Cross Reference 2		Equipment Model M100
		Serial number 204157
Cross Reference 3		Manufacturer ES & S

Purpose:

The purpose of this test is to verify that the voting device prevents electors from voting for the same candidate more than once for the same office.

Prerequisites:

N/A

Test Procedures:

Use notes and voting information from CC2-P3-205. Document the findings of attempts at multiple votes for the same office.

Variances Used During Testing:

N/A

Test Expected Outcome

The voting system prevents the elector from voting more than one time for the same office.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 206

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports
7-25-07		Genice	+ Procedure only allows voter to receive one ballot from poll worker.	
			+ Ballot box is locked (see photo) this prevents the voter from retrieving their marked ballot and running it through again, thus preventing them from voting more than one time for the same office.	

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 206

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 206

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 206

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☐ Yes ☐	No ☐ Yes ☐	No ☐ Yes ☒
		Reference test # CC2-P3-205

Acceptable Compensating Controls

Results Summary

Test Meets Expected Outcome

Final Test Status

P

1st Review	2nd Review	Supervisor Approval
Geneice Mathews	Michael L. Chadwell	John Gardner
Printed name	Printed name	Printed name
Geneice Mathews	Michael L. Chadwell	
Signature	Signature	Signature
7-25-07	9.11.07	9/13/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 206

Additional Observations and Findings

Observations:

Findings:

Voter should only receive one ballot from pollworker. Voter votes their ballot and it is read in the precinct counter (MICO). The ballot is in the ballot box which is locked and made of metal preventing the voter from breaking into ~~or re~~ to retrieve ~~remove~~ their ballot and read~~ing~~ it again.

~~or removing the ballot box~~

1st Review	2nd Review	Supervisor Approval
Geneice Mathews	Michael L. Chadwell	John Gardner
Printed name	Printed name	Printed name
Signature: Geneice Mathews	Signature: Michael L. Chadwell	Signature:
Date: 7-25-07	Date: 9.11.07	Date: 9/13/07

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1700 Broadway
Suite 250
Denver, CO 80290

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Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 207

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-611(1)(d); 45.6.2.3.14(a)	No nonpunch card electronic voting system shall be purchased, leased, or used unless it fulfills the following requirements: It permits each elector, other than at a primary election, to vote for the candidates of one or more parties and for unaffiliated candidates.	CC2-P3-207
		Test Date: 8/16/2007
		Test End Date/Time: 8/16/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the voting system allows for voters to vote for candidates of one or more parties and for unaffiliated candidates when not in a primary election.

Prerequisites:

CC3-P3-334, DB2-P3-201, DB3-P3-307.

Test Procedures:

Use notes and voting information from CC3-P3-334. Document the findings using deck ESS 1CO, or ESS 1CA - see County Commissioner District 1 race.

Variances Used During Testing:

N/A

Test Expected Outcome

In other than a primary election senerio, each elector is allowed to vote for candidates of any and all parties.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 207

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 207

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☑ Yes ☐	No ☐ Yes ☑	No ☐ Yes ☑
	See DB3-P3-307.	See CC3-P3-334

Acceptable Compensating Controls

Results Summary

The voting system fails to meet the requirements.

Final Test Status

FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T Bishop	John Gardner
Printed name	Printed name	Printed name
Signature: Jerome C Lovato — Date: 9/20/07	Signature: T Bishop — Date: 9-20-07	Signature: [illegible] — Date: 9/20/07

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 207

Additional Observations and Findings

Observations:

See notes in CC3-P3-334, and DB2-P3-201. The testing board was unable to complete the testing on the device due to the large number of errors when attempting to process ballots through the device.

Findings:

The voting system fails to meet the test requirements.

1st Review		2nd Review		Supervisor Approval	
Jerome Lovato		T Bishop		John Gardner	
Printed name		*Printed name*		*Printed name*	
Jerome Lovato	9/20/07	T Bishop	9-20-07		9/20/07
Signature	*Date*	*Signature*	*Date*	*Signature*	*Date*

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1700 Broadway
Suite 250
Denver, CO 80290

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Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 208

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-407(1.6)	No ballot stub is required for a ballot produced on demand, so long as the quantity of ballots produced for the election can be reconciled by the ballot processing method used by the voting system. Such ballots may contain printed and distinguishing marks, so long as secrecy in voting is protected.	CC2-P3-208
		Test Date: 8/16/2007
		Test End Date/Time: 8/16/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: N/A
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that if no stub is used for ballot on demand printing, then the system shall maintain a log file and meet the requirements herein.

Prerequisites:

N/A

Test Procedures:

N/A

Variances Used During Testing:

N/A

Test Expected Outcome

A log of ballots printed On Demand may be produced if no stubs are used n the "On Demand" process. Additionally, the ballots may have distinguishing marks as appropriate.

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election		CC2-P3 - 208

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
			GM	
8-16-07		Geneice	[illegible]	
			[illegible]	
			[illegible]	
			Vendor is not certifying their	
			ballot on demand system.	
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election		CC2-P3 - 208

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☒ Yes ☐	No ☒ Yes ☐

Acceptable Compensating Controls

Results Summary	Final Test Status
This test is not applicable	N/A

1st Review	2nd Review	Supervisor Approval
G Mathews	Michael L. Chadwell	John Gardner
Printed name	Printed name	Printed name
Signature	Signature	Signature
8.16.07	9.11.07	9/13/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election		CC2-P3 - 208

Additional Observations and Findings

Observations:

N/A

Findings:

Vendor is not certifying an 'On Demand' system.

1st Review		2nd Review		Supervisor Approval	
G Mathers		Michael L. Chadwell		John Gardner	
Printed name		Printed name		Printed name	
Signature	Date 9.16.07	Signature	Date 9.11.07	Signature	Date 9/13/07

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1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 209

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-615(1)(c)	No electronic or electromechanical voting system shall be certified by the secretary of state unless such system: Permits each elector to verify his or her votes privately and independently before the ballot is cast.	CC2-P3-209
		Test Date: 7/25/2007
		Test End Date/Time: 7/25/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the voting device allows for electors to verify their choices privately and independently before the ballot is cast.

Prerequisites:

~~N/A~~
DS2-P3-201 & 212

Test Procedures:

Show the process of casting a ballot on the PCOS unit using vendor solution of secrecy sleeve (photos expected). See also CC2-P3-238.

Variances Used During Testing:

N/A

Test Expected Outcome

Voting system allows voter verification of ballot before votes are cast.

Environment		Test Number
Voting	**2007-CDOS-ESS-001-0403**	CC2-P3 - 209

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 209

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	No ☒ Yes ☐	Videos (list all videos)	No ☐ Yes ☒	Photos (list all photos)	No ☐ Yes ☒
		See DB2-P3-201		See attached	

Acceptable Compensating Controls

Results Summary

The voting system fails to meet the requirements.

Final Test Status

FAIL

1st Review	2nd Review	Supervisor Approval
Serene Lowtz	T. Bishop	John Gardner
Printed name	Printed name	Printed name
Signature: Serene L. Lowtz — Date: 9/20/07	Signature: T. Bishop — Date: 9-20-07	Signature: [illegible] — Date: 9/20/07

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 209

Additional Observations and Findings

Observations:

See notes in DB2-P3-201. The testing board was unable to complete the testing on the device due to the large number of errors when attempting to process ballots through the device. Additionally, the secrecy sleeve exposes voters' choices preventing full privacy of votes. See attached photos.

Findings:

The voting system fails to meet the test requirements.

1st Review	2nd Review	Supervisor Approval
Jerome Lowts	T Bishop	John Gardner
Printed name	*Printed name*	*Printed name*
Jerome L Lowts	Tim Bishop	
Signature	*Signature*	*Signature*
9/20/07	9-20-07	9/20/07
Date	*Date*	*Date*

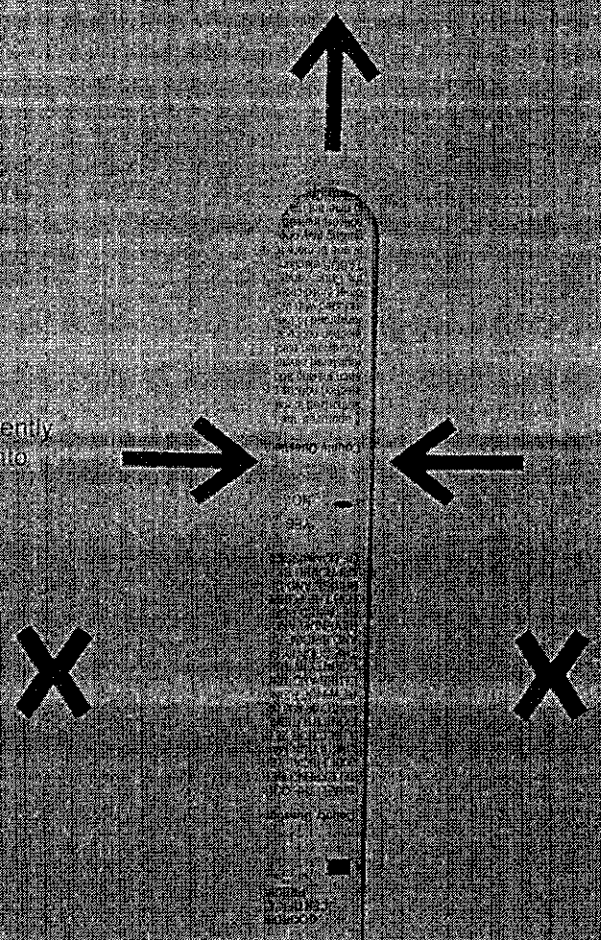
Before Voting:

- Make sure the ballot is in the privacy sleeve.
- Firmly attach sleeve to ES&S AutoMARK using Velcro.

The ES&S AutoMARK will automatically pull ballot into machine.

After Voting:

- ES&S AutoMARK returns ballot into privacy sleeve.
- Hold the sleeve by pressing firmly on the X marks at the bottom nearest you.
- Pull sleeve and ballot from machine.
- When ballot is completely removed, take to the ballot box or counter to cast your vote.



CC2-P3-209

CC2-R3-209

PRECIN

County Question

SHALL THE COU
TO EXPEND REV
2005 FISCAL YEA
LIMITATION MAN
X, SECTION 20 C
CONSTITUTION,
UP TO $8,800,00
REVENUE BEING
CITIES AND TOW
COUNTY IN THE
THE COUNTY SH
AND BRIDGE PR
REVENUE, AND
RETAINED PORT
FOR THE PURPO
BRIDGE AND DR
APPROVED BY T
OF COMMISSION

YES

NO

County Question

If approved, the C
authorized to mai
election notices p
each mailing addi
registered elector
coordinated elect
election notice sh
forwarded to the
included with tho
other jurisdictions
the County shall
TABOR election
of one or more re
mailing only one
notices, instead
to different mail
County Clerk

to
gently

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 210

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
37.1.2(b)	Voting systems (including optical scanning voting systems or direct recording electronic systems) certified by the secretary of state and acquired, purchased or leased by counties pursuant to state law shall: (b) provide the voter with the opportunity (in a private and independent manner) to change the ballot or correct any error before the ballot is cast and counted (including the opportunity to correct the error through the issuance of a replacement ballot if the voter was otherwise unable to change the ballot or correct any error).	CC2-P3-210
		Test Date
		7/25/2007
		Test End Date/Time
		7/25/2007
Cross Reference 1		Test Type (D,F,B)
		Functional
		Eq Type
		PCOS
Cross Reference 2		Equipment Model
		M100
		Serial number
		204157
Cross Reference 3		Manufacturer
		ES & S

Purpose:

The purpose of this test is to verify that the voting device will allow the voter to change and correct a ballot as required herein.

Prerequisites:

CC2-P3-202
CC2-P3-201

Test Procedures:

See test CC2-P3-202; CC2-P3-239. Verify that voter has the ability to change the ballot through feedback from the device.

Variances Used During Testing:

N/A

Test Expected Outcome

The elector will be able to change in a private and independant manner the electors selections before casting the ballot.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 210

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 210

Test Log

Date	Time	Operator	Actions and Frames	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☐ Yes ☒	No ☒ Yes ☐
	See DB2-P3-201	

Acceptable Compensating Controls

Results Summary	Final Test Status
The voting system fails to meet the requirements.	FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T Bishop	John Gardner
Printed name	Printed name	Printed name
Signature: Jerome C Lovato — Date: 9/20/07	Signature: Tim Bishop — Date: 9-20-07	Signature: [illegible] — Date: 9/20/07

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 210

Additional Observations and Findings

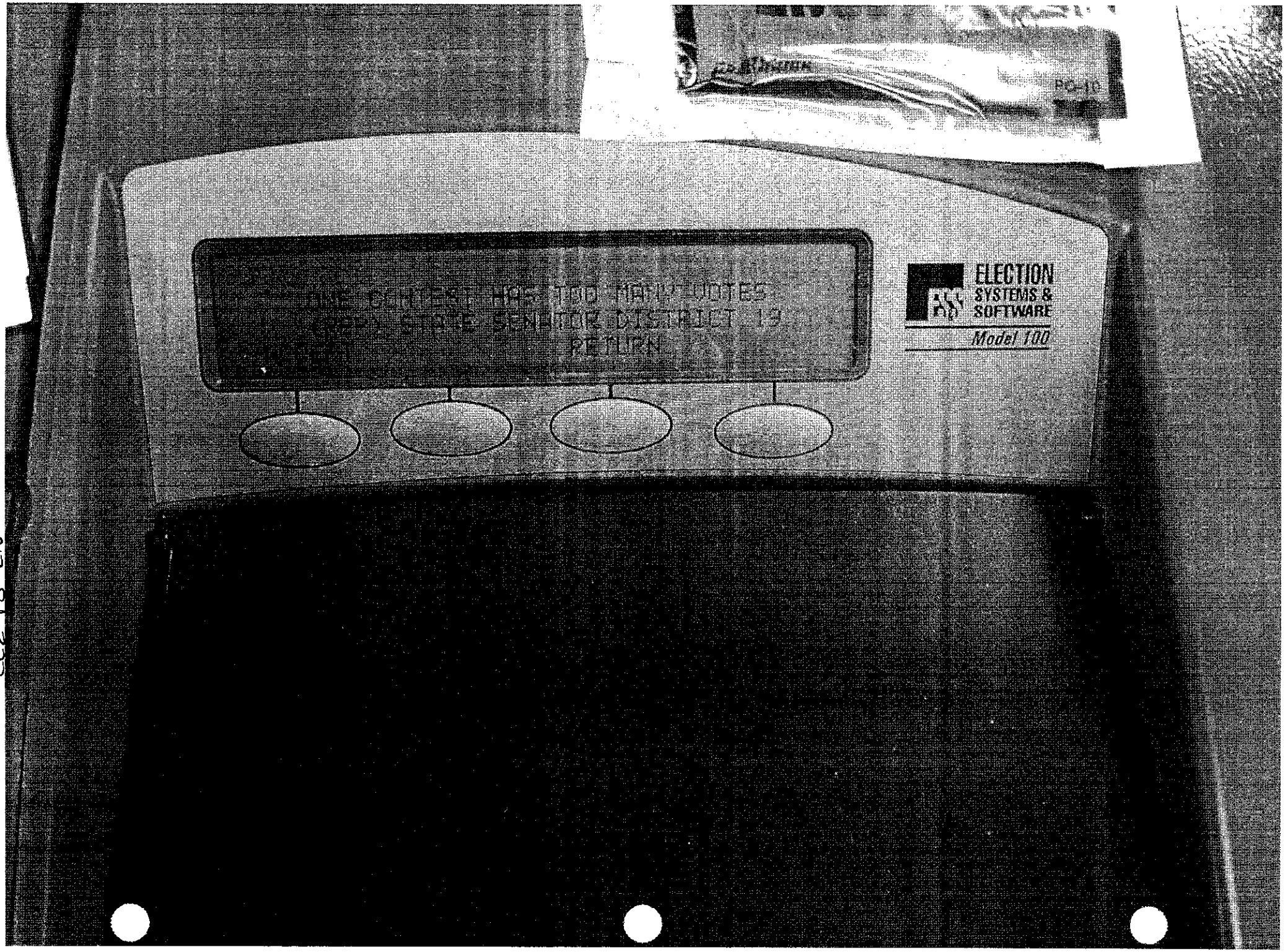
Observations:

See notes in DB2-P3-201. The testing board was unable to complete the testing on the device due to the large number of errors when attempting to process ballots through the device, and was therefore unable to fully determine if the marked ballots (and rejected ballots) were processed accurately by the device.

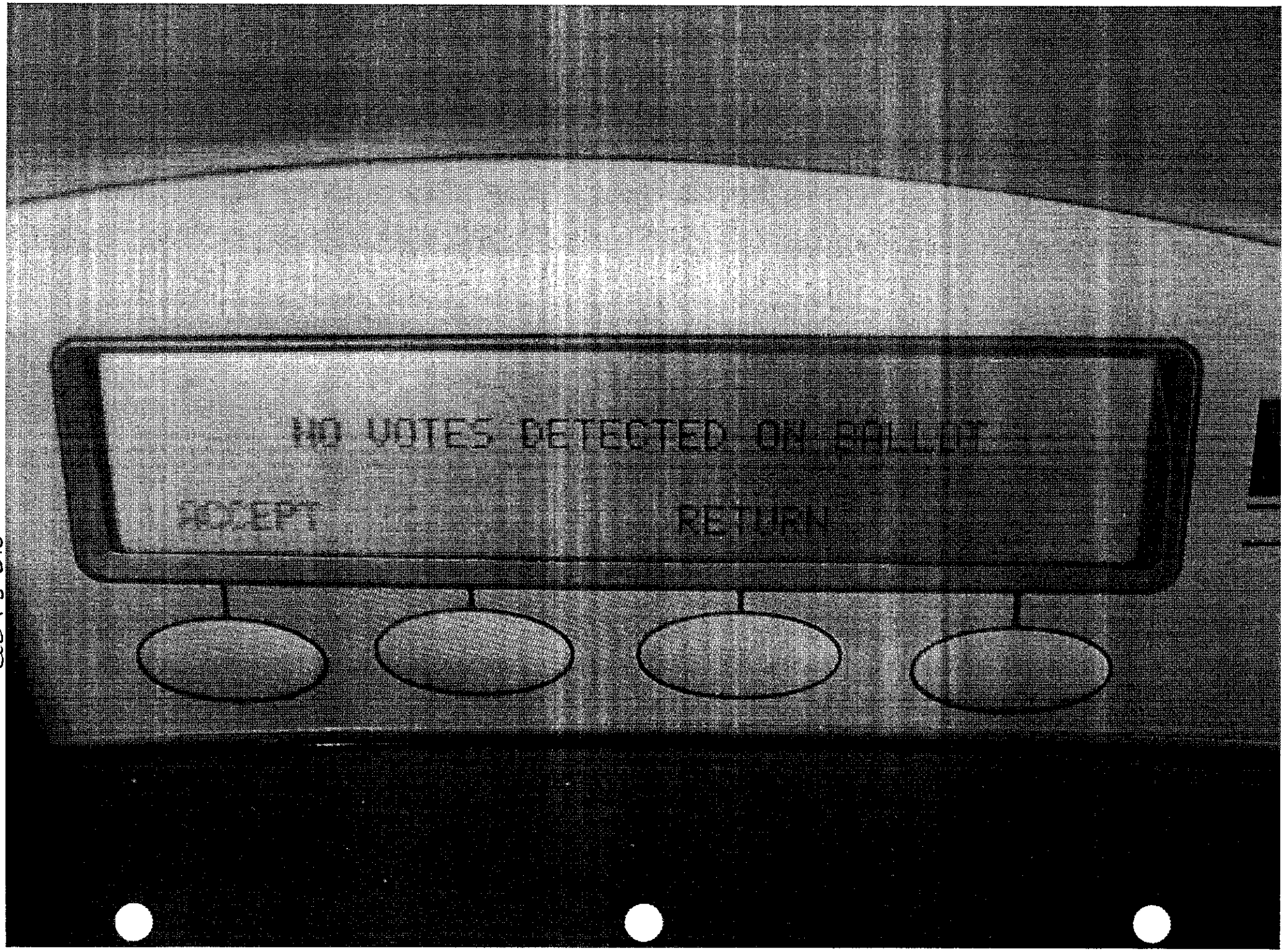
Findings:

The voting system fails to meet the test requirements.

1st Review		2nd Review		Supervisor Approval	
Jerome Lovato		T Bishop		John Gardner	
Printed name		*Printed name*		*Printed name*	
Jerome L Lovato	9/20/07		9-20-07		9/20/07
Signature	*Date*	*Signature*	*Date*	*Signature*	*Date*


THE CONTEST HAS TOO MANY VOTES
FOR STATE SENATOR DISTRICT 19
RETURN
ELECTION
SYSTEMS &
SOFTWARE
Model 100

CC2-P3-210



CC2-P3-210

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 211

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
37.1.4(d)	The voting systems described in the foregoing paragraphs shall produce a record with an audit capacity for such system. (d) The paper record shall be accessible for individuals with disabilities including non-visual accessibility for the blind and visually impaired, in a manner that provides the same opportunity for access and participation (including privacy and independence) as for other voters.	CC2-P3-211
		Test Date: 7/25/2007
		Test End Date/Time: 7/25/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the paper record is accessible for individuals with disabilities in a manner that provides the same opportunity for access, participation, privacy and independence as it does for others.

Prerequisites:

N/A

Test Procedures:

N/A

Variances Used During Testing:

N/A

Test Expected Outcome

The paper record shall be accessible in a similar manner for non-disabled voters to the extent possible for verification.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 211

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 211

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	No ☒ Yes ☐	Videos (list all videos)	No ☒ Yes ☐	Photos (list all photos)	No ☒ Yes ☐

Acceptable Compensating Controls

Results Summary	Final Test Status
The test is not applicable for this device.	N/A

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T Bishop	John Gardner
Printed name	Printed name	Printed name
Jerome C Lovato	T Bishop	
Signature	Signature	Signature
9/20/07	9-20-07	9/20/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 211

Additional Observations and Findings

Observations:

This test is not applicable for the voting device as it is not the accessible solution for the voting system.

Findings:

This test is not applicable for this voting device.

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T. Bishop	John Gardner
Printed name	*Printed name*	*Printed name*
Jerome L. Lovato 9/20/07	9-20-07	9/20/07
Signature *Date*	*Signature* *Date*	*Signature* *Date*

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 212

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
37.1.2(a)	Voting systems (including optical scanning voting systems or direct recording electronic systems) certified by the secretary of state and acquired, purchased or leased by counties pursuant to state law shall: (a) permit the voter to verify (in a private and independent manner) the votes selected by the voter on the ballot before the ballot is cast and counted;	CC2-P3-212
		Test Date
		7/25/2007
		Test End Date/Time
		7/25/2007
Cross Reference 1		Test Type (D,F,B)
		Functional
		Eq. Type
		PCOS
Cross Reference 2		Equipment Model
		M100
		Serial number
Cross Reference 3		204157
		Manufacturer
		ES & S

Purpose:

The purpose of this test is to verify that the voter can verify the votes selected by the voter, privately and independently, before the ballot is cast and counted.

Prerequisites:

Completion of deck ESS 1CO, DB2-P3-201.
CC2-P3-209

Test Procedures:

See procedures for DB2-P3-201 for voting and test setup. Document findings of voting in private using vendor provided secrecy sleeve.

Variances Used During Testing:

N/A

Test Expected Outcome

The elector will be able to verify in a private and independant manner the electors selections before casting the ballot.

Environment
Voting

2007-CDOS-ESS-001-0403

Test Number
CC2-P3 - 212

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 212

Test Log

Date	Time	Operator	Observations and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☒ Yes ☐	No ☐ Yes ☒
		See attached.

Acceptable Compensating Controls

Results Summary

The voting system fails to meet the requirements.

Final Test Status

FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T Bishop	John Gardner
Printed name	Printed name	Printed name
Jerome Lovato — Signature — 9/20/07 Date	T Bishop — Signature — 9-20-07 Date	Signature — 9/20/07 Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 212

Additional Observations and Findings

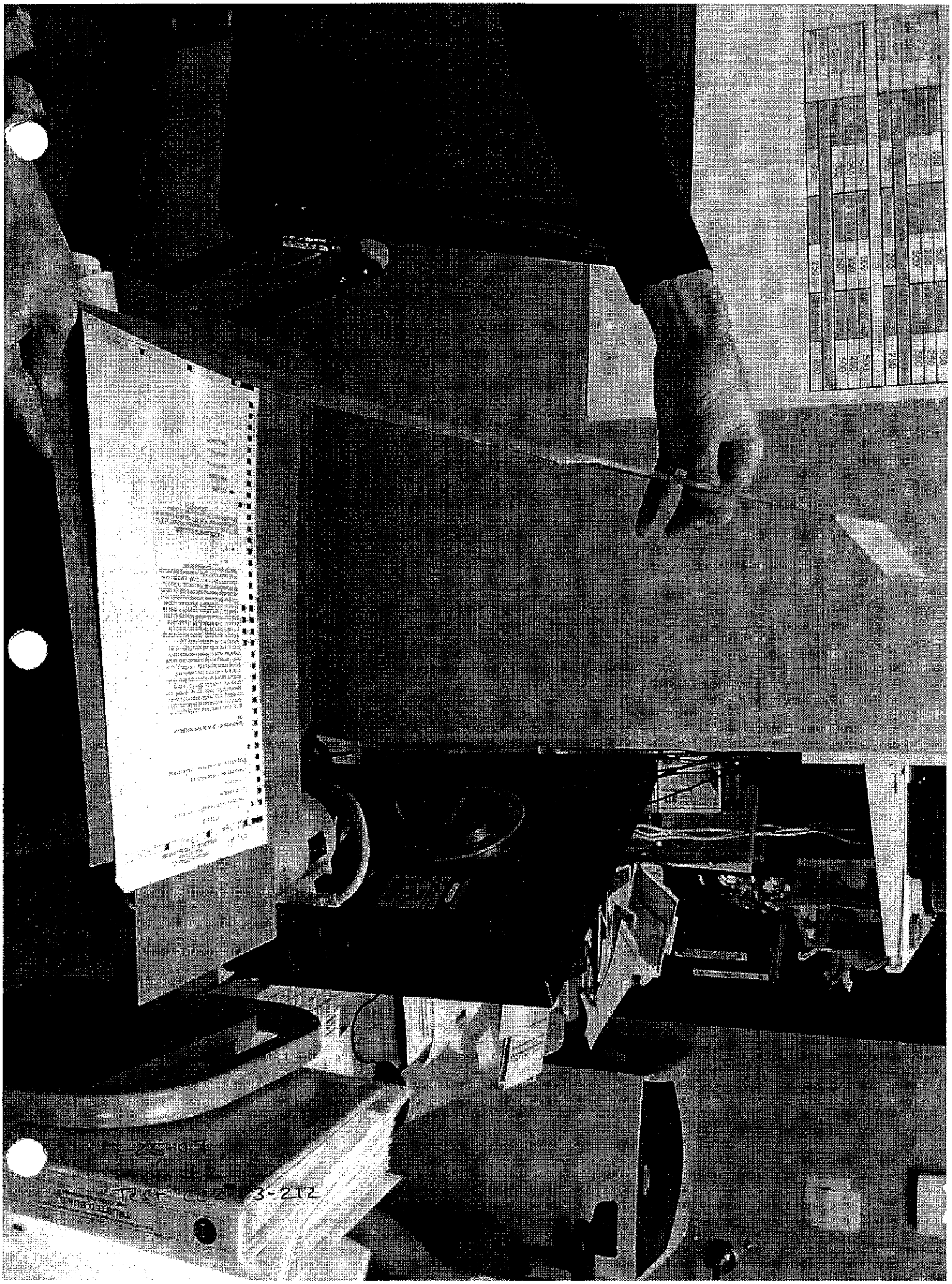
Observations:

See also notes on CC2-P3-209 and attached photos. Although voters can vote in private the secrecy sleeve provided by voting system vendor does not protect the voters choices ensuring privacy of their vote.

Findings:

The voting system fails to meet the test requirements.

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T Bishop	John Gardner
Printed name	*Printed name*	*Printed name*
Jerome L. Lovato	T. Bishop	
Signature	*Signature*	*Signature*
9/20/07	9-20-07	9/20/07
Date	*Date*	*Date*


7-25-07
Test CO2 13-212

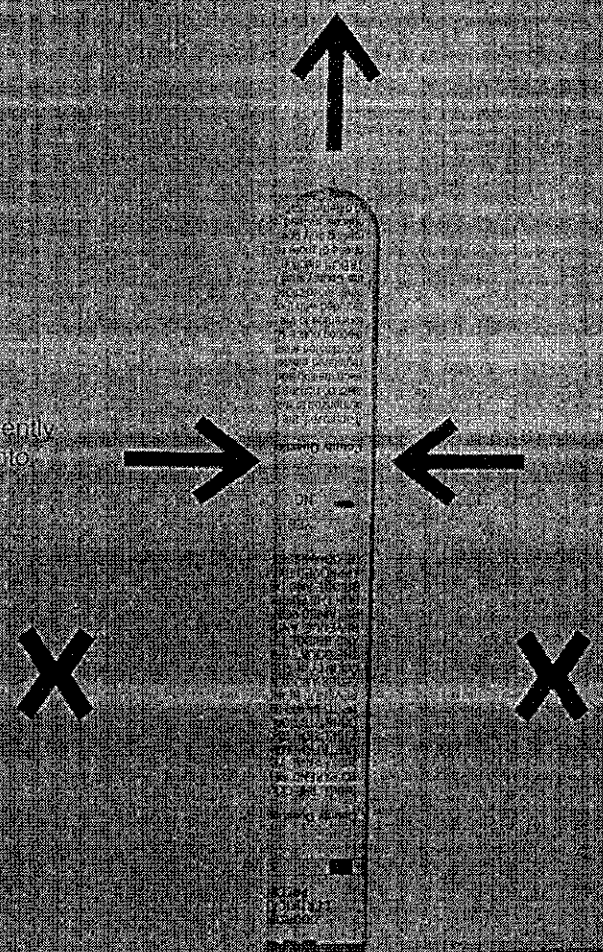
Before Voting:

- Make sure the ballot is in the privacy sleeve.
- Firmly attach sleeve to ES&S AutoMARK using Velcro tabs.

The ES&S AutoMARK will automatically pull ballot into machine.

After Voting:

- ES&S AutoMARK returns ballot into privacy sleeve.
- Hold the sleeve by pressing firmly on the X marks at the bottom nearest you.
- Pull sleeve and ballot from machine.
- When ballot is completely removed, take it to ballot box or counter to cast your vote.



222-28-212

CC2-P3-212

PRECIN

S

County Question

SHALL THE COU
TO EXPEND REV
2005 FISCAL YEA
LIMITATION MAN
X, SECTION 20 C
CONSTITUTION
UP TO $8,800,00
REVENUE BEING
CITIES AND TOW
COUNTY IN THE
THE COUNTY SH
AND BRIDGE PR
REVENUE, AND
RETAINED PORT
FOR THE PURPO
BRIDGE AND DR
APPROVED BY T
OF COMMISSIO

YES

NO

County Questior

If approved, the C
authorized to mai
election notices p
each mailing addi
registered elector
coordinated elect
election notice sh
forwarded to the
included with tho
other jurisdictions
the County shall
TABOR election
of one or more re
mailing only one
notices, instead
to different mail
County Cha

, gently

nto

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 213

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-615(1)(d)	No electronic or electromechanical voting system shall be certified by the secretary of state unless such system: Permits each elector privately and independently to change the ballot or correct any error before the ballot is cast, including by voting a replacement ballot if the elector is otherwise unable to change the ballot or correct an error.	CC2-P3-213
		Test Date: 7/25/2007
		Test End Date/Time: 7/25/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the voting system allows the voter to correct any errors on the ballot including requesting a replacement ballot if the voter is not able to correct an error.

Prerequisites:

CC2-P3-212
CC2-P3-209

Test Procedures:

Use test CC2-P3-212 for voting and ballots necessary for the completion of this test.

Variances Used During Testing:

N/A

Test Expected Outcome

Voting system allows voter to make changes privately and independently prior to casting the ballot. Note any instances where a replacement ballot is used if corrections are not allowed.

Environment		Test Number
Voting	**2007-CDOS-ESS-001-0403**	CC2-P3 - 213

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 213

Testing

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☒ Yes ☐	No ☐ Yes ☒
		See attached to CC2-P3-212

Acceptable Compensating Controls

Results Summary	Final Test Status
The voting system fails to meet the requirements.	FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lorenzo	T. Bishop	John Gardner
Printed name	Printed name	Printed name
Signature: [signature] Date: 9/20/07	Signature: [signature] Date: 9-20-07	Signature: [signature] Date: 9/20/07

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 213

Additional Observations and Findings

Observations:

See also notes on CC2-P3-209 and attached photos to CC2-P3-212. Although voters can vote in private the secrecy sleeve provided by voting system vendor does not protect the voters choices ensuring privacy of their vote.

Findings:

The voting system fails to meet the test requirements.

1st Review		2nd Review		Supervisor Approval	
Simone Lovato		T. Bishop		John Gardner	
Printed name		*Printed name*		*Printed name*	
Simone L. Lovato	9/20/07	[illegible]	9-20-07	[illegible]	9/20/07
Signature	*Date*	*Signature*	*Date*	*Signature*	*Date*

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 214

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
37.1.4(c)	The voting systems described in the foregoing paragraphs shall produce a record with an audit capacity for such system. (c) The paper record produced under subparagraph (a) shall be available as an official record for any recount conducted with respect to any election in which the system is used.	CC2-P3-214
		Test Date: 8/16/2007
		Test End Date/Time: 8/16/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the paper record produced shall be available as an official record for any recount where the device was used.

Prerequisites:

Instructions to vendors for programming and ballot setup, DB2-P3-202. See also CC3-P3-325
CC2-P3-201

Test Procedures:

Verify vendor documentation on paper ballot specifications; conduct tests and recount ballots after being processed. Use deck#'s ESS 1CO/1CA, ESS 1RO/1RA, ESS 1PO/1PA.

Variances Used During Testing:

N/A

Test Expected Outcome

The paper record produced will be of a material and design that allows it's use during a recount procedure as an official record.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting - Post Electio		CC2-P3 - 214

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting - Post Election		CC2-P3 - 214

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	No ☐ Yes ☒	Videos (list all videos)	No ☐ Yes ☒	Photos (list all photos)	No ☒ Yes ☐
See CC3-P3-325		See DB2-P3-201.			

Acceptable Compensating Controls

Results Summary	Final Test Status
The voting system fails to meet the requirements.	FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T. Bishop	John Gardner
Printed name	Printed name	Printed name
Jerome C. Lovato	T. Bishop	
Signature	Signature	Signature
9/20/07	9-20-07	9/20/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting - Post Electior		CC2-P3 - 214

Additional Observations and Findings

Observations:

See notes in DB2-P3-201. The testing board was unable to complete the testing on the device due to the large number of errors when attempting to process ballots through the device. Attempts at recounts were hindered by the ability to verify the machine count for the coordinated ballot decks.

Findings:

The voting system fails to meet the test requirements.

1st Review	2nd Review	Supervisor Approval
Jerome Lowts	J Bishop	John Gardner
Printed name	*Printed name*	*Printed name*
Jerome C. Lowts 9/20/07	9-20-07	9/20/07
Signature *Date*	*Signature* *Date*	*Signature* *Date*

2.9.4.2 Paper Based System

For marking devices manufactured by multiple external sources, the vendor shall provide a listing of sources and model numbers that are compatible with the system.

The TDP shall specify the required paper stock, size, shape, opacity, color, watermarks, field layout, orientation, size and style of printing, size and location of punch or mark fields used for vote response fields and to identify unique ballot formats, placement of alignment marks, ink for printing, and folding and bleed-through limitations for preparation of ballots that are compatible with the system.

ES&S recommends that clients use the following marking device and produce ballots to the following specifications for the Model 100, 150/550 and 650 ballot scanners. For complete descriptions of approved materials, see the product maintenance manuals and functional specifications included with the TDP.

Marking Device

ES&S recommends and supplies the Bic Round Stic (Black) medium point pen for marking paper ballots. The Bic pen is the only marking device recommended by ES&S.

ES&S Ballot Specifications

Stock	ES&S certified custom manufactured 80 lb. Weyerhaeuser Opaque White. Weyerhaeuser stock is manufactured by Weyerhaeuser Paper Mill and distributed through XPEDX, Minneapolis, telephone (800) 328-2504.
Grain	Long
Basis Weight	80 lb. (36.2874 kg)
Thickness	0.0061 in. (0.015494 cm)
Smoothness	130
Moisture	5.5 percent
Opacity	97.0
Brightness	92-94
PPI	338

Jurisdictions should use only the recommended paper stock with the Model 100, 150, 550 or 650. Other types of paper cause sensor difficulties with paper color, bleed through, smearing, paper transport or sheet sensor calibration. ES&S

scanners do not function properly with other types of ballot stock. Jurisdictions can order ballot stock through ES&S to make sure that third party printers use the correct paper for ballot production. The Model 100, 150/550 and 650 cannot read color ballot stock.

ES&S Ballot Dimensions

Ballot Width	8.50 in. + 0.030 in. or - 0.020 in. (21.59 cm + 0.0762 cm or - .0508 cm)
Ballot Height	11 in., 14 in., 17 in. or 19 in. ± 0.030 in. (27.94 cm, 35.56 cm, 43.18 cm or 48.26 ±.0762 cm)

Note: The dimensions above do not include ballot stubs.

ES&S Ballot Columns

Column Width	1.97 in.(5.0038 cm)
Party Logo Print Area	1.53 in. (3.8862 cm) from the far left column ruling line

ES&S Timing Marks

The timing track is the [redacted] of ES&S ballots. Printers must use the following specifications to generate the timing track:

Height	[redacted]
Width	
Row Spacing	
Density	

ES&S Black Checks (Orientation Marks)

Black checks appear on ballots for the Model 100, 150/550 and 650 [redacted] Scanners read black checks to determine the orientation of a ballot as it passes through the scanner. Printers must use the following specifications to place black checks on the ballot:

Height	0.12 in. (.3048 cm)
Width	0.12 in. (.3048 cm)

Density	[redacted]

ES&S Ballot Targets (Ovals)

The Model 100, 150/550 and 650 scan oval ballot targets. [redacted]

Printers must configure ballots to the following specifications in order to place acceptable targets on ES&S ballots:

Screen	[redacted]
Row Spacing	
Distance between ovals	
Placement	
Clear space for channels	

ES&S Ballot Ink

Printers must print all machine-readable components with high-quality black ink. ES&S ballots require that printers use ink with a minimum density of [redacted] nd a maximum density of [redacted] Partner Printers can contact ES&S for a list of acceptable inks and colors for readable and non-readable sections of the ballot.

Optech Ballot Specifications

Check your ballot stock for the following required properties:

Stock	ES&S certified, custom manufactured 110 lb. OPT Wausau Index White. Ballot stock is manufactured by the Wausau Paper Mill and distributed by XPEDX, Minneapolis (800) 328-2504.
Grain	Short
Fiber Content	100 percent Virgin Fiber
OCR Specs	Run to TAPPI OCCR Specifications for dirt count only
Basis Weight	110 lb.
Caliper	0.0090 inch ± 0.0002 in. (.02286 cm ± .00508 cm)
Basis Size	25.5 x 30.5 in. (64.77 cm x 77.47 cm)

Note: Ballot width is extremely important in maintaining ballot readability. Ballots must be trimmed to a tolerance of less than 0.015 inch (0.038 cm).

Standard Sheet Sizes and Grain Direction	20.5 x 24.75 in. (52.1 x 62.87 cm) L 30.5 x 25.5 in. (77.47 x 64.77 cm) L 22.5 x 35.0 in. (57.15 x 88.9 cm) L
pH	8
Smoothness	125 Sheffield
Moisture	4.5 – 6.5 percent
Curl	0.12 in. (0.305 cm) at equilibrium between 50% relative humidity

Optech Ballot Dimensions (without stubs)

Tabulator	Length	Width
III-P, III-P Eagle	12.0 to 22.0 + 0.25, -0.10 in. (30.48 to 55.88 + 0.635, -.254 cm)	3 column – 9.750 ± 0.015 in. (27.765 ± 0.0381 cm) 2 column – 6.720 ± 0.015 in. (17.0688 ± 0.0381 cm) 1 column – 3.690 ± 0.015 in. (9.3726 ± 0.0381 cm)
IV-C	12.0 to 18.0 +0.25, -0.10 in. (30.48 to 7.2 +0.635, -.254 cm)	3 column – 9.750 ± 0.015 in. (24.765 ± 0.0381 cm) 2 column – 6.720 ± 0.015 in. (17.0688 ± 0.0381 cm) 1 column – 3.690 ± 0.015 in. (9.3726 ± 0.0381 cm)

Note: For maximum tabulator throughput performance, the ballot length must be set for the Optech III-P Eagle to 14 inches (35.56 centimeters) and for the Optech IV-C at 12 inches (30.48 centimeters).

Specifications for Alternate Optech Ballot Stock

Stock	ES&S certified, custom manufactured 110 lb. ES&S International Paper OCR Index White. Ballot stock is manufactured by International Paper and distributed through XPEDX, Minneapolis (800) 328-2504.

Grain	Short
Fiber	100 percent Virgin Fiber
Basis Weight	110 lb.

Clients cannot use other types of paper stock with Optech scanners. Unapproved ballot stock causes sensor difficulties including; bleed through, dirt specs, poor transport through the scanner and problems with the sheet detector. ES&S does not guarantee proper scanning with unapproved stock.

Note: Jurisdictions that require colored paper stock must use white or colored stock tinted with a 100 to 120 line 10 to 20 percent screen of with transparent, non-readable ink. The black layer (start bars, header codes, text bars) must be printed over the screen tint. All ballots with screen tints must be tested extensively.

Optech Ballot Ink

[redacted]

The ballot ink must be tested on the press and on dried ballots. The jurisdiction tests trimmed, printed ballots in the Optech scanner.

Only readable black ink should be used to print ballot components. No text should be printed in the active voting tracks between the start and stop bars or in the vertical voting tracks.

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 215

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
37.1.4(b)	The voting systems described in the foregoing paragraphs shall produce a record with an audit capacity for such system. (b) The voting system shall provide the voter with an opportunity to change the ballot or correct any error before the permanent paper record is produced.	CC2-P3-215
		Test Date 8/16/2007
		Test End Date/Time 8/16/2007
Cross Reference 1		Test Type (D,F,B) Functional
		Eq Type PCOS
Cross Reference 2		Equipment Model M100
		Serial number 204157
Cross Reference 3		Manufacturer ES & S

Purpose:

The purpose of this test is to verify that the voting system provides an opportunity for a voter to change or correct the ballot before the permanent paper record is produced.

Prerequisites:

CC2-P3-202, CC2-P3-219

Test Procedures:

See prerequisite tests for setup and voting procedures.

Variances Used During Testing:

N/A

Test Expected Outcome

The elector will be able to change or correct a ballot in a private and independant manner the electors selections before casting the ballot and creating the permanent paper record.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 215

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
8.16.07		Genice	Reference CC2-P3.202 and CC2-P3.219	
			If a voter ~~votes~~ overvotes a	
			contest the M100 requests that	
			the ballot be rejected or accepted	
			giving the voter the opportunity to	
			make changes.	

Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 215

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	No ☐ Yes ☐	Videos (list all videos)	No ☐ Yes ☐	Photos (list all photos)	No ☐ Yes ☒
				Ref CC2.P3.202 photos + CC2.P3.219 – photos	

Acceptable Compensating Controls

Results Summary	Final Test Status
Test Meets Expected Outcome	P

1st Review	2nd Review	Supervisor Approval
G Mathews	Michael L. Chadwell	[illegible] Gardner
Printed name	Printed name	Printed name
[signature]	[signature]	[signature]
Signature	Signature	Signature
8.16.07	9.11.07	9/13/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 215

Additional Observations and Findings

Observations:

See log

Findings:

Elector is able to change or correct a ballot in private before casting the ballot and creating a paper record. & System allows the voter to correct any errors (such as overvotes) before a ballot is cast.

1st Review		2nd Review		Supervisor Approval	
G McEllers		Michael L. Chadwell		John Gardner	
Printed name		Printed name		Printed name	
Signature	Date 8.16.07	Signature	Date 9.11.07	Signature	Date 9/13/07

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Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 216

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
37.1.2(d)	Voting systems (including optical scanning voting systems or direct recording electronic systems) certified by the secretary of state and acquired, purchased or leased by counties pursuant to state law shall: (d) Ensure that any notification required under this paragraph preserves the privacy of the vote and the confidentiality of the ballot.	CC2-P3-216
		Test Date
		8/16/2007
		Test End Date/Time
		8/16/2007
Cross Reference 1		Test Type (D,F,B)
		Functional
		Eq Type
		PCOS
Cross Reference 2		Equipment Model
		M100
		Serial number
Cross Reference 3		204157
		Manufacturer
		ES & S

Purpose:

The purpose of this test is to verify that the voting system provides notification to the voter as required herein.

Prerequisites:

CC2-P3-202, CC2-P3-212

Test Procedures:

See notes on CC2-P3-212

Variances Used During Testing:

N/A

Test Expected Outcome

The elector will be notified in a private and independant manner of the electors selection to overvote before casting the ballot.

Environment		Test Number
Voting	**2007-CDOS-ESS-001-0403**	CC2-P3 - 216

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 216

Test Log

Date	Time	Operator	Minutes and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☒ Yes ☐	No ☐ Yes ☒
		See attached to CC2-P3-212

Acceptable Compensating Controls

Results Summary

The voting system fails to meet the requirements.

Final Test Status

FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T Bishop	John Gardner
Printed name	Printed name	Printed name
Jerome Lovato 9/20/07	T Bishop 9-20-07	9/20/07
Signature Date	Signature Date	Signature Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 216

Additional Observations and Findings

Observations:

See also notes on CC2-P3-209 and attached photos to CC2-P3-212. Although voters can vote in private the secrecy sleeve provided by voting system vendor does not protect the voters choices ensuring privacy of their vote.

Findings:

The voting system fails to meet the test requirements.

1st Review	2nd Review	Supervisor Approval
Jerome Lewis	T Bishop	John Gardner
Printed name	*Printed name*	*Printed name*
Jerome L Lewis	T Bishop	
Signature	*Signature*	*Signature*
9/20/07	9-20-07	9/20/07
Date	*Date*	*Date*

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 217

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
37.1.2(c)	Voting systems (including optical scanning voting systems or direct recording electronic systems) certified by the secretary of state and acquired, purchased or leased by counties pursuant to state law shall: (c) if the voter selects votes for more than one candidate for a single office: (i) notify the voter that the voter has selected more than 1 candidate for a single office on the ballot; (ii) notify the voter before the ballot is cast and counted of the effect of casting multiple votes for the office; and (iii) provide the voter with the opportunity to correct the ballot before the ballot is cast and counted.	CC2-P3-217
		Test Date
		7/25/2007
		Test End Date/Time
		7/25/2007
Cross Reference 1		Test Type (D,F,B)
		Functional
		Eq Type
		PCOS
Cross Reference 2		Equipment Model
		M100
		Serial number
Cross Reference 3		204157
		Manufacturer
		ES & S

Purpose:

The purpose of this test is to verify that the voting system provides notification to the voter as required herein.

Prerequisites:

DB2-P3-201; CC2-P3-202

Test Procedures:

See notes on DB2-P3-201, document the findings of the system meeting the requirements: 1) System must notify the voter of selecting more than 1 candidate; 2) System must notify of the effect of casting multiple votes; and 3) system must allow for changes

Variances Used During Testing:

N/A

Test Expected Outcome

The elector will be notified of an overvote, informed of the consequences of overvoting, and allowed to correct the ballot before casting the ballot.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 217

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 217

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☒ Yes ☒	No ☐ Yes ☒
	See DB2-P3-201.	See CC2-P3-202

Acceptable Compensating Controls

Results Summary	Final Test Status
The voting system fails to meet the requirements.	FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T Bishop	John Gardner
Printed name	Printed name	Printed name
Jerome Lovato	T Bishop	
Signature	Signature	Signature
9/20/07	9-20-07	9/20/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 217

Additional Observations and Findings

Observations:

See notes in DB2-P3-201. The testing board was unable to complete the testing on the device due to the large number of errors when attempting to process ballots through the device, and was therefore unable to fully determine if the marked ballots (and rejected ballots) were processed accurately by the device. Additionally, the device is not capable of providing information to the voters of the effect of an overvote.

Findings:

The voting system fails to meet the test requirements.

1st Review		2nd Review		Supervisor Approval	
Jerome Lewis		T Bishop		John Gardner	
Printed name		*Printed name*		*Printed name*	
Jerome Lewis	9/20/07	T Bishop	9-20-07		9/20/07
Signature	*Date*	*Signature*	*Date*	*Signature*	*Date*

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 218

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
45.5.2.3.21(a)	The voting system shall provide capabilities to enforce confidentiality of voters' ballot choices. All optical scan devices, associated ballot boxes and V-VPAT storage devices shall provide physical locks and procedures to prevent disclosure of voters' confidential ballot choices during and after the vote casting operation.	CC2-P3-218
		Test Date: 7/25/2007
		Test End Date/Time: 7/25/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the voting device shall contain physical locks and abilities to seal the machine to provide protection of a voters' confidential ballot choices as required herein.

Prerequisites:

CC2-P3-205

Test Procedures:

See notes on CC2-P3-205 for setup and voting instructions for using device. Document the seals and security required and implemented on the device.

Variances Used During Testing:

N/A

Test Expected Outcome

Voting system components are capable of physical security measures. Document procedures necessary (rules may currently address) to protect privacy.

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election - Voting		CC2-P3 - 218

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports
7-25-07		Genelice	When a voter casts their ballot it goes into a locked ballot box made of metal. The voter is not able to retrieve their ballot in anyway, ~~no~~ it is kept confidential in the ballot box.	
			Reference test # CC2-P3-205	
			there are multiple locks on ballot box that need to be locked before voting/casting of ballots is allowed.	
			See documentation	

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election - Voting		CC2-P3 - 218

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election - Voting		CC2-P3 - 218

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election - Voting		CC2-P3 - 218

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☐ Yes ☑	No ☒ Yes ☐	No ☒ Yes ☐
Attached M100 Operators guide		

Acceptable Compensating Controls

Results Summary

Test Meets Expected Outcome

Final Test Status

P

1st Review	2nd Review	Supervisor Approval
Geneice Mathews	Michael L. Chadwell	John Gardner
Printed name	Printed name	Printed name
Geneice Mathews	Michael L. Chadwell	
Signature	Signature	Signature
7-25-07	9.11.07	9/19/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election - Voting		CC2-P3 - 218

Additional Observations and Findings

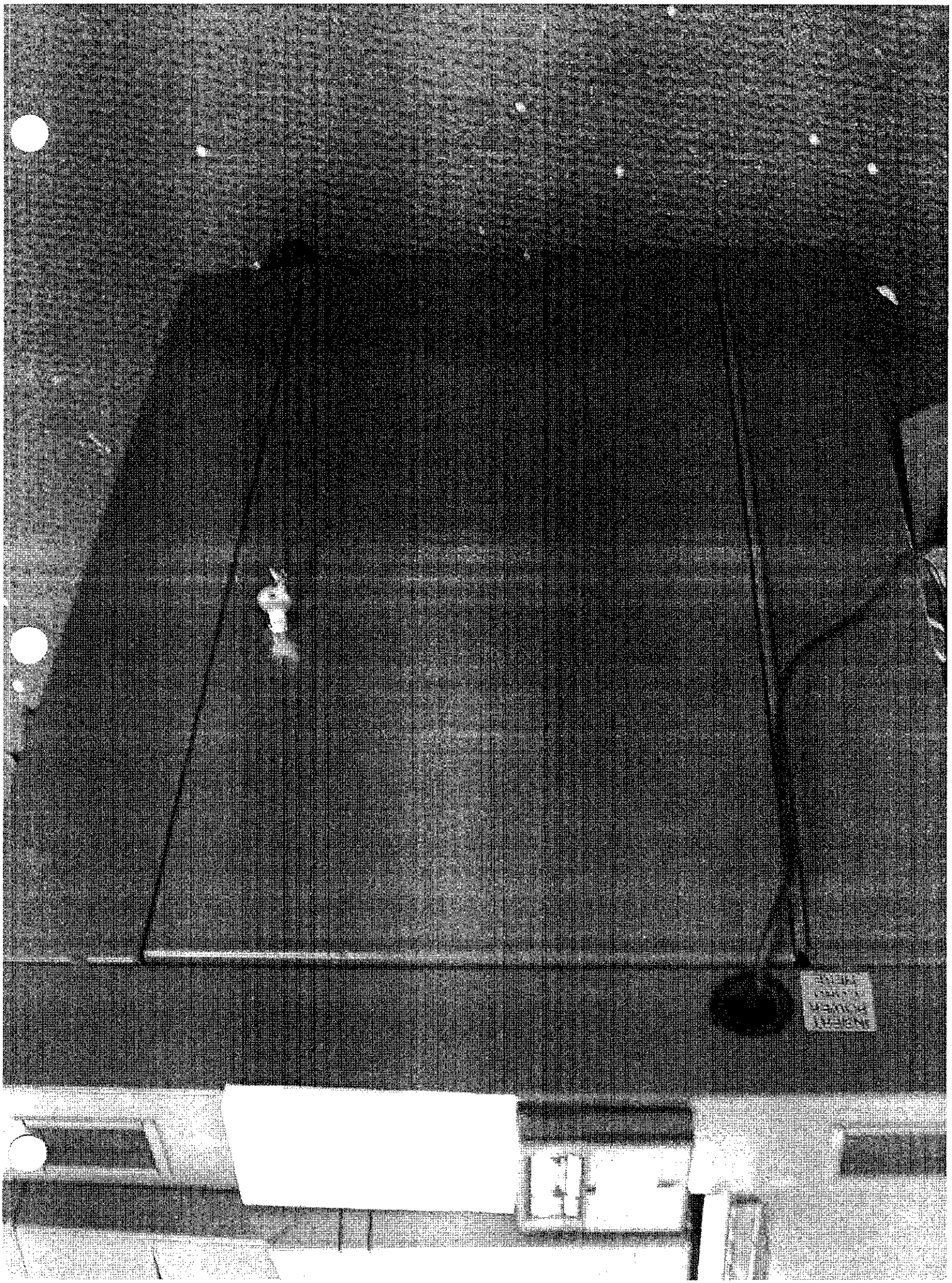
Observations:

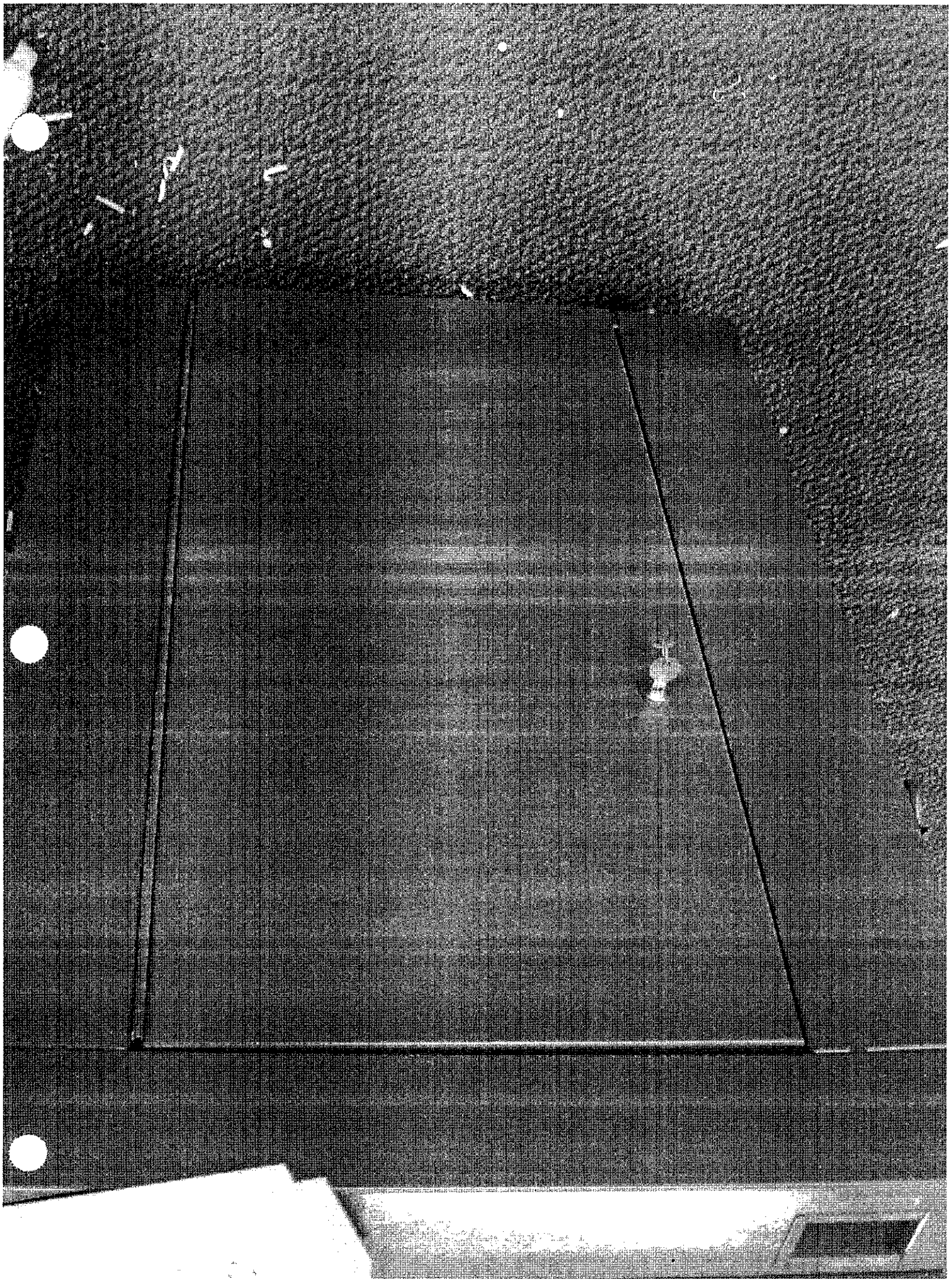
See log

Findings:

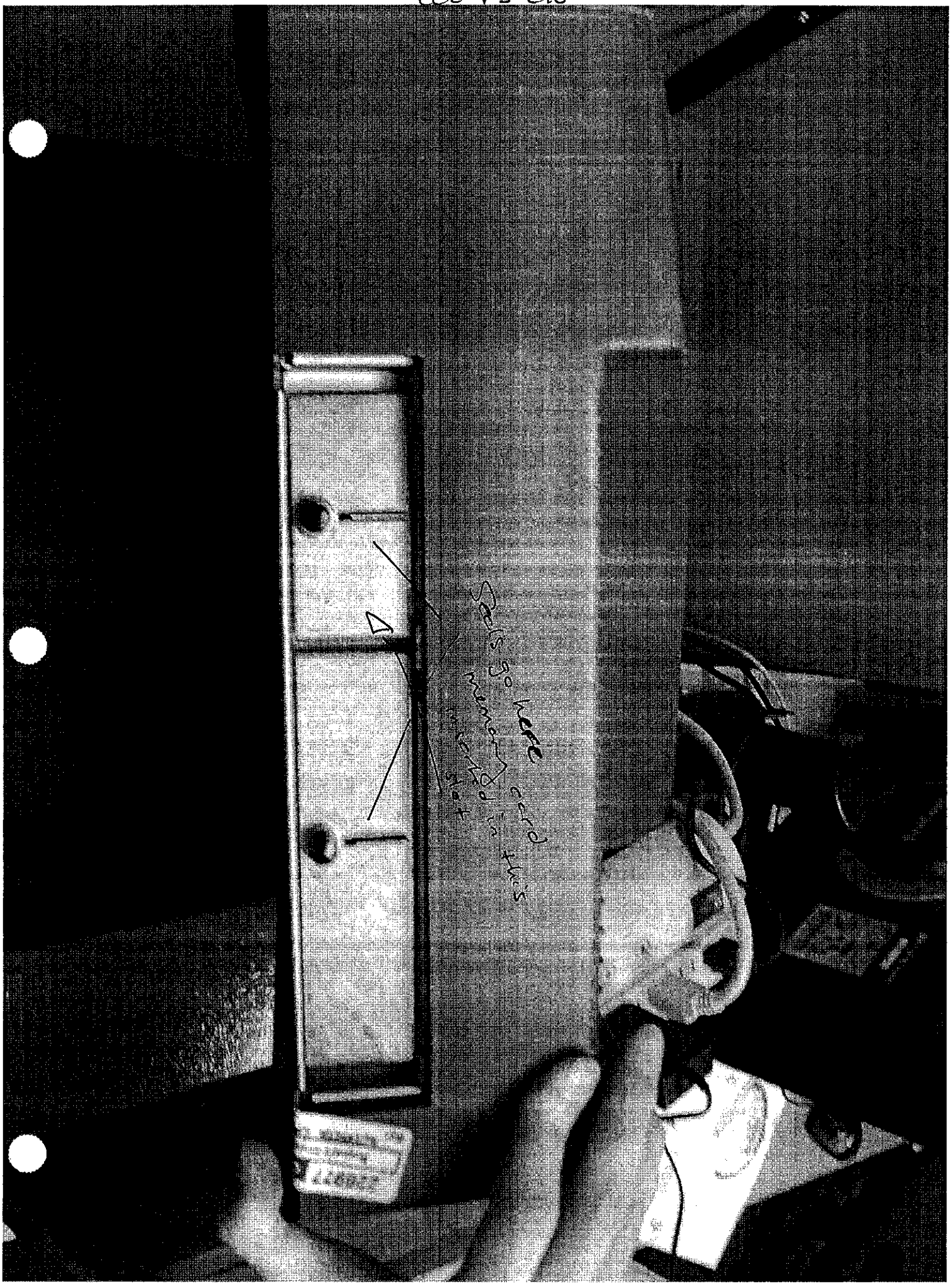
Voting system is capable of physical security measures. The ballot box is locked by key see photos and documentation referenced in test CC2-P3-205.

1st Review		2nd Review		Supervisor Approval	
Geneice Mathews		Michael L. Chadwell		John Gardner	
Printed name		Printed name		Printed name	
Signature	7-25-07 Date	Signature	9.11.07 Date	Signature	9/19/07 Date





CC2-P3-218



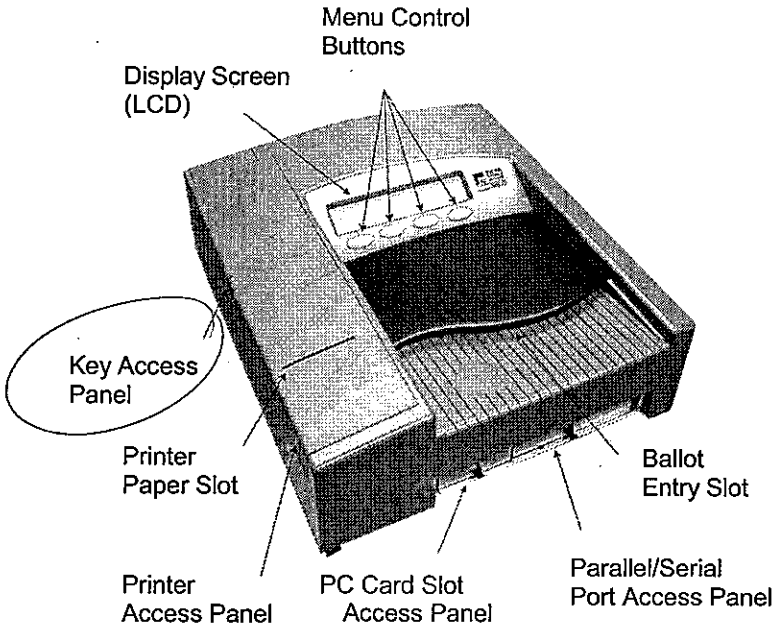
Chapter 3: Understanding the Counter

Use the diagrams and descriptions in this chapter to familiarize yourself with Model 100 scanner components and functions. Always scan a ballot test deck before your election to test the scanner for accuracy and to correct any functional errors before you count official ballots.

For a list of recommended polling place supplies and instructions for assembling and testing the Model 100, see Chapter 4, "Performing Pre-Election Day Tasks."

The Scanner

[redacted]



The Model 100 scanner reads marks on both one and two-sided ballots. Administrators can request custom ballot acceptance criteria, which ES&S programs onto the scanner's election definition PC Card. For example, if a jurisdiction prohibits counting blank ballots, ES&S election coders can program the Model 100 sort blank ballots out of the general ballot count until jurisdiction officials can review the ballots. With each acceptable ballot counted, the Model 100 increases the running vote totals for each race included on the election definition.

A standard 120-volt AC power cord supplies electricity to the scanner. If a power outage occurs, the Model 100 contains an internal back-up battery that can run the scanner for one to three hours, depending on scanner activity. The tabulator stores accumulated totals to internal scanner memory (DRAM) and to a removable PC Card.

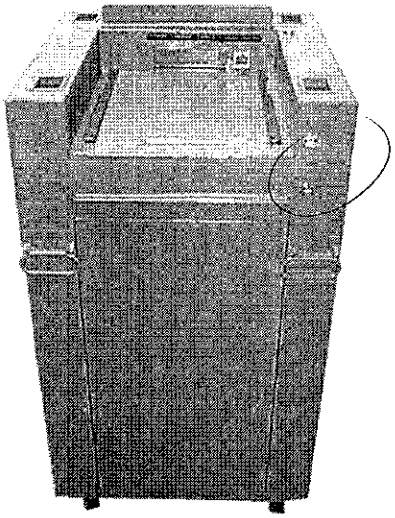
The Model 100 can generate reports and store election results in the following formats:

- Paper reports produced from the scanner's internal, thermal printer or by an external printer connected to the scanner.
- A removable PC Card that you can use to transfer scanner results to Election Reporting Manager after the polls close.
- Data transferred by modem directly from the scanner to a PC running Election Reporting Manager.

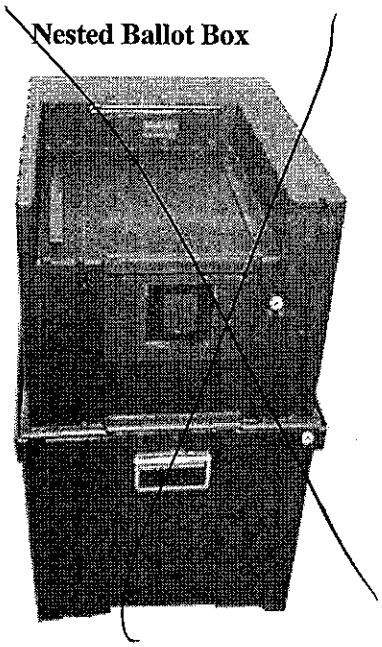
The Ballot Box

Model 100 ballot boxes store ballots and house the scanner at the polling place. ES&S supplies one of two styles of ballot box (metal or nested) with each Model 100 scanner. The Model 100 feeds scanned ballots directly into the ballot box, which sorts the ballots according to criteria programmed in the election definition with an internal diverter. The ballot box also has a compartment that poll workers can use to temporarily store uncounted or contested ballots in the event of a power failure or scanner error.

Metal Ballot Box



Nested Ballot Box



only ballot box tested for Colorado.

Attaching the Model 100 to the Ballot Box

The metal box and nested box are equipped with different types of scanner access doors. Other than the access door, the process for mounting the scanner to either ballot box is the same.

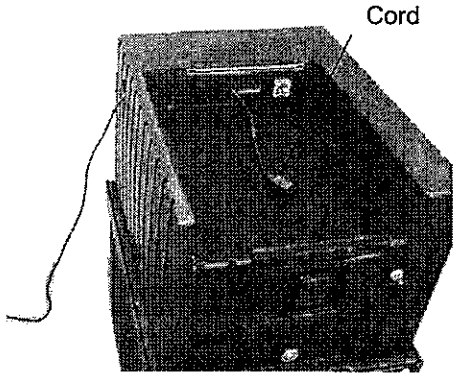
To set up the power cord

1. Before you mount your scanner to the top of a ballot box, inspect the power cord for damage.

   Important: If the cord appears damaged, discard it and contact ES&S for a new cord.

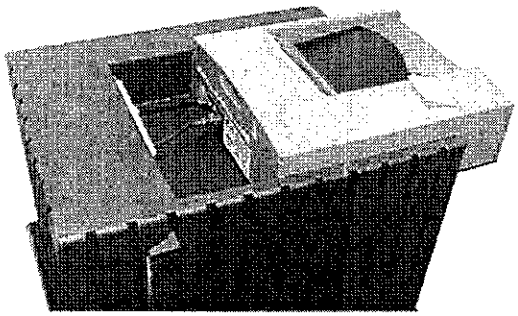
2. Insert the female end of the cord through the opening on the outer left side of the ballot box.

3. Thread the cord through the outside opening on the back of the box until the cord appears on the inside of the opening at the top recessed area.



4. Pull the cord through the opening until it extends a few inches into the recessed area of the ballot box. Then, remove the scanner from the carrying case.

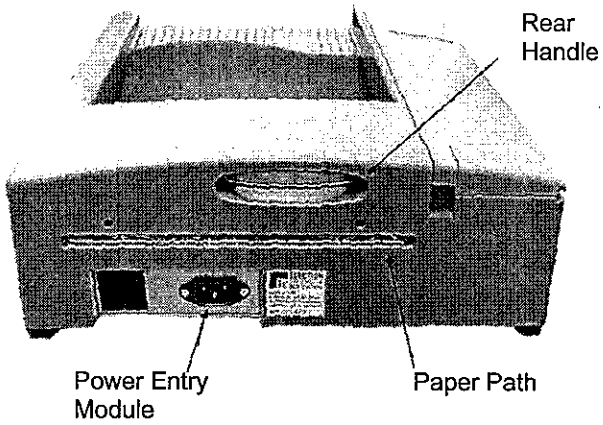
5. Place the scanner about one-third of the way into the recessed area and slide it onto the mounting rails until it sits about four or five inches from the back of the recessed area.



Warning: Only plug the Model 100 scanner into a grounded, three-pronged electrical outlet. Plug only one scanner into each available outlet. ES&S does not recommend using an extension cord.

6. Plug the female end of the power cord into the Power Entry Module on the back of the scanner and then plug the male end of the cord into a wall outlet. Arrange your voting equipment to make sure that no one trips on the cord or accidentally unplugs the scanner on Election Day.

   Note: The message, "NO-AC," appears on the scanner's display screen if the scanner is not receiving power through the power cord. Check your connections and the wall outlet if this message appears on your scanner's display screen.



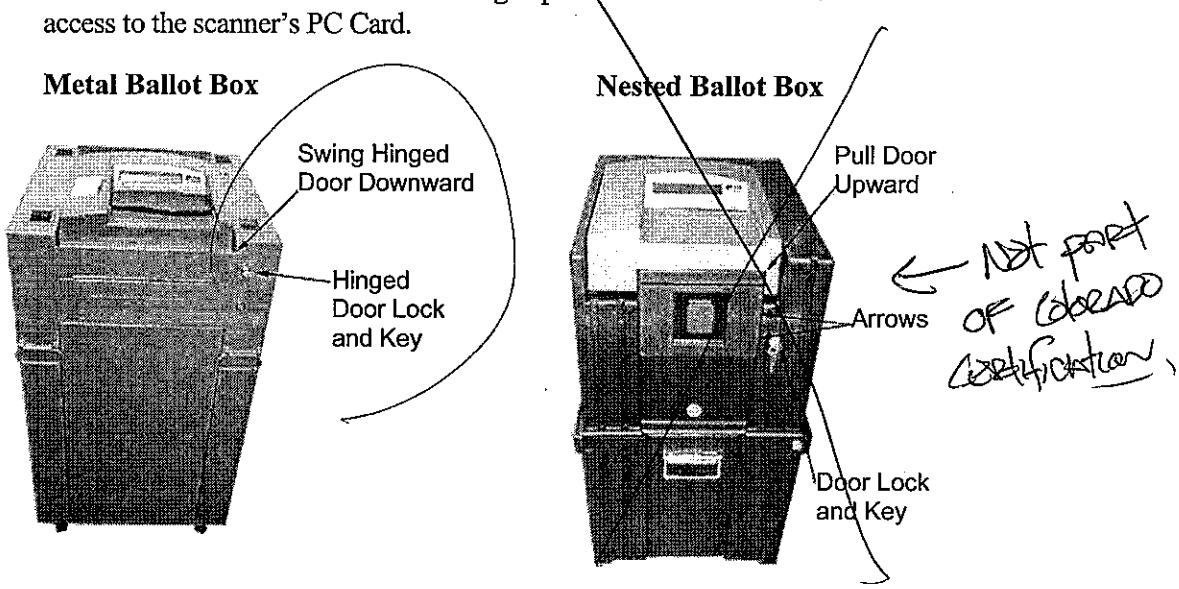
To attach the scanner to the ballot box

1. Slide the scanner against the back of the ballot box. Make sure the diverter connector at the back of the scanner locks into the slot on the ballot box.

2. Insert the scanner key into the control panel turn it to OPEN/CLOSE POLL position to start the Model 100 and generate an Initial State Report.

3. Slide the door on the front of the ballot box up until it covers the front of the scanner.

   Note: The front access door on the nested ballot box slides up and down, while the door on the metal box is a hinged panel. Both doors lock to limit access to the scanner's PC Card.



4. If you use a nested ballot box, align the bottom arrow on the door with the center of the lock and lock the door into place.

   OR

   If you use a metal ballot box, align the hole in the access door with the bracket on the box and lock the hinged panel into place. Test the door to make sure the lock properly engages.

Preparing the Counter

After you mount the scanner to the ballot box, there are a number of tasks that you must complete before you open the polls. Because the proper operation of the counter depends on performing the following tasks, it is important to carefully review this section before every election.

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 219

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
27.4.1(a)	Precinct Optical Scan Procedures for voters whose ballots are rejected or sorted by the precinct counter as a blank or overvoted ballot shall be given the opportunity to correct their ballot.	CC2-P3-219
		Test Date: 7/26/2007
		Test End Date/Time: 7/26/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the ballots rejected by the voting device due to overvote or blank ballots shall provide the voter the opportunity to correct the ballot.

Prerequisites:

DB2-P3-201; DB2-P3-206.

Test Procedures:

Use test setup and voting from DB2-P3-201. Document the findings of the device processing a blank and overvoted ballot.

Variances Used During Testing:

N/A

Test Expected Outcome

Precinct scanners recognize over votes and blank votes and allows voter to correct their ballot prior to casting.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 219

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 219

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☐ Yes ☒	No ☐ Yes ☒
	See DB2-P3-201.	See attached.

Acceptable Compensating Controls

Results Summary

The voting system fails to meet the requirements.

Final Test Status

FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lewis	T. Bishop	John Gardner
Printed name	Printed name	Printed name
Jerome C. Lewis	Tim Bishop	
Signature	Signature	Signature
9/20/07	9-20-07	9/20/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 219

Additional Observations and Findings

Observations:

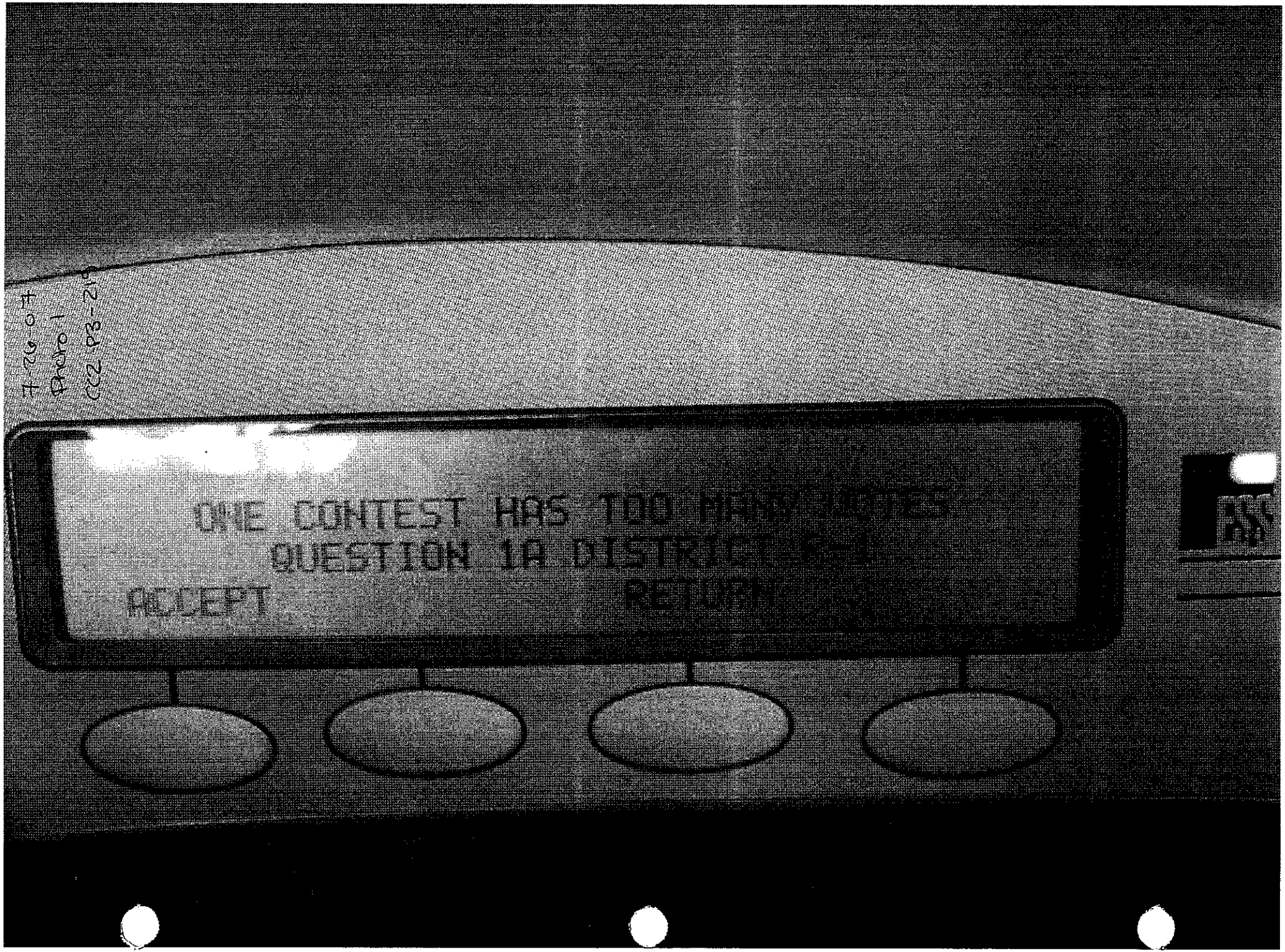
See notes in DB2-P3-201. The testing board was unable to complete the testing on the device due to the large number of errors when attempting to process ballots through the device, and was therefore unable to fully determine if the marked ballots (and rejected ballots) were processed accurately by the device.

Findings:

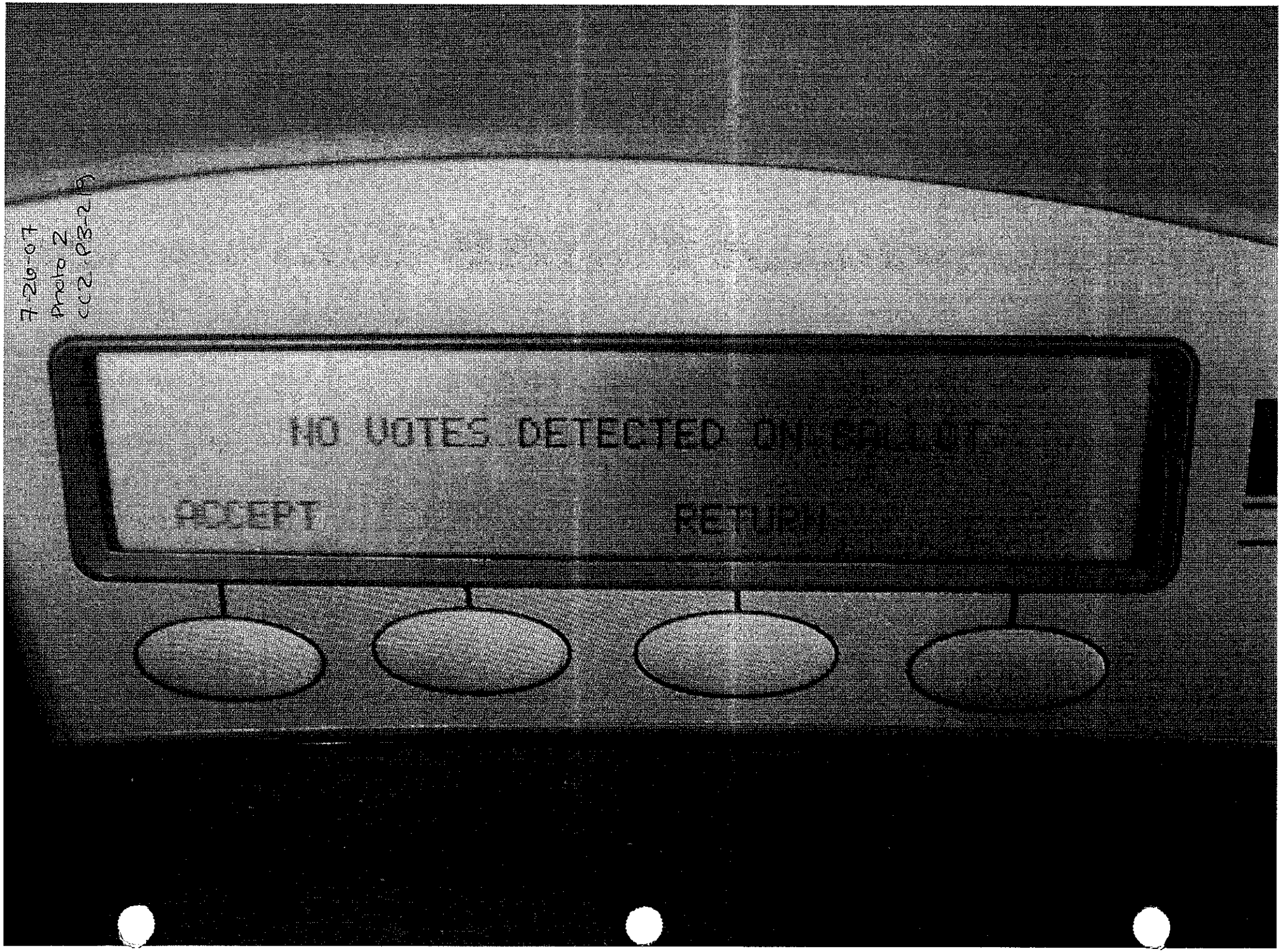
The voting system fails to meet the test requirements.

1st Review		2nd Review		Supervisor Approval	
Sarne Lonts		T Bishop		John Gardner	
Printed name		*Printed name*		*Printed name*	
Sarne Lonts	9/20/07	[illegible]	9-20-07	[illegible]	9/20/07
Signature	*Date*	*Signature*	*Date*	*Signature*	*Date*

7-20-04
Photo 1
CC2-03-219



7-29-07
Photo 2
CC2-P3-2B



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Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: [redacted] ESS

Application Date: *04/03/2007*

Test Number
CC2-P3 - 220

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
27.4.1(b)	Precinct Optical Scan Procedures for Ballots sorted to a write-in bin shall be tallied at the conclusion of the voting and delivered to the central counting center in a secure container.	CC2-P3-220
		Test Date: 8/30/2007
		Test End Date/Time: 8/31/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the OS unit sorts ballots with write-in votes separately from the other ballots.

Prerequisites:

DB2-P3-201

Test Procedures:

Use test DB2-P3-201 to vote and process ballots. Use coordinated election and Deck ESS-1CA for voting write-ins. Document findings.

Variances Used During Testing:

N/A

Test Expected Outcome

Precinct scanners that separate write-in ballots to a separate bin shall have the totals tallied at the conclusion of voting. Containers used shall be secured.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 220

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 220

Testing

Date	Time	Operator	Observations and Notes	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☐ Yes ☒	No ☐ Yes ☒
	DB2-P3-201	See Attached photos.

Acceptable Compensating Controls

Results Summary

The voting system meets the test requirements.

Final Test Status

PASS

1st Review	2nd Review	Supervisor Approval
Geneice Mathews	Michael L. Chadwell	John Gardner
Printed name	Printed name	Printed name
Signature: [signature] Date: 9-4-07	Signature: Michael L. Chadwell Date: 9.05.07	Signature: [signature] Date: 9/13/07

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 220

Additional Observations and Findings

Observations:

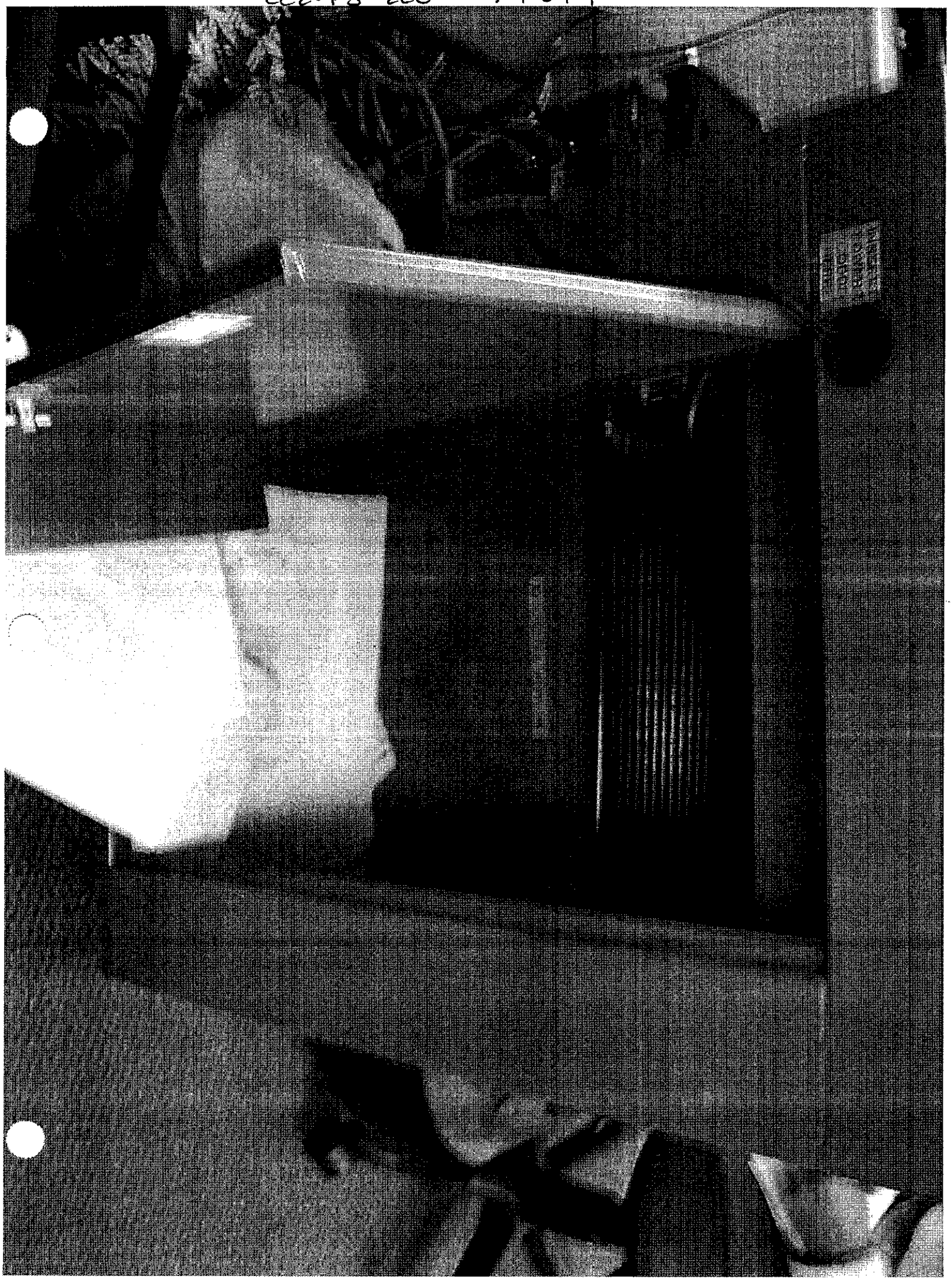
The voting system has a metal ballot box with a deflector to sort ballots to the left and right sides of the ballot box. See attached photos.

Findings:

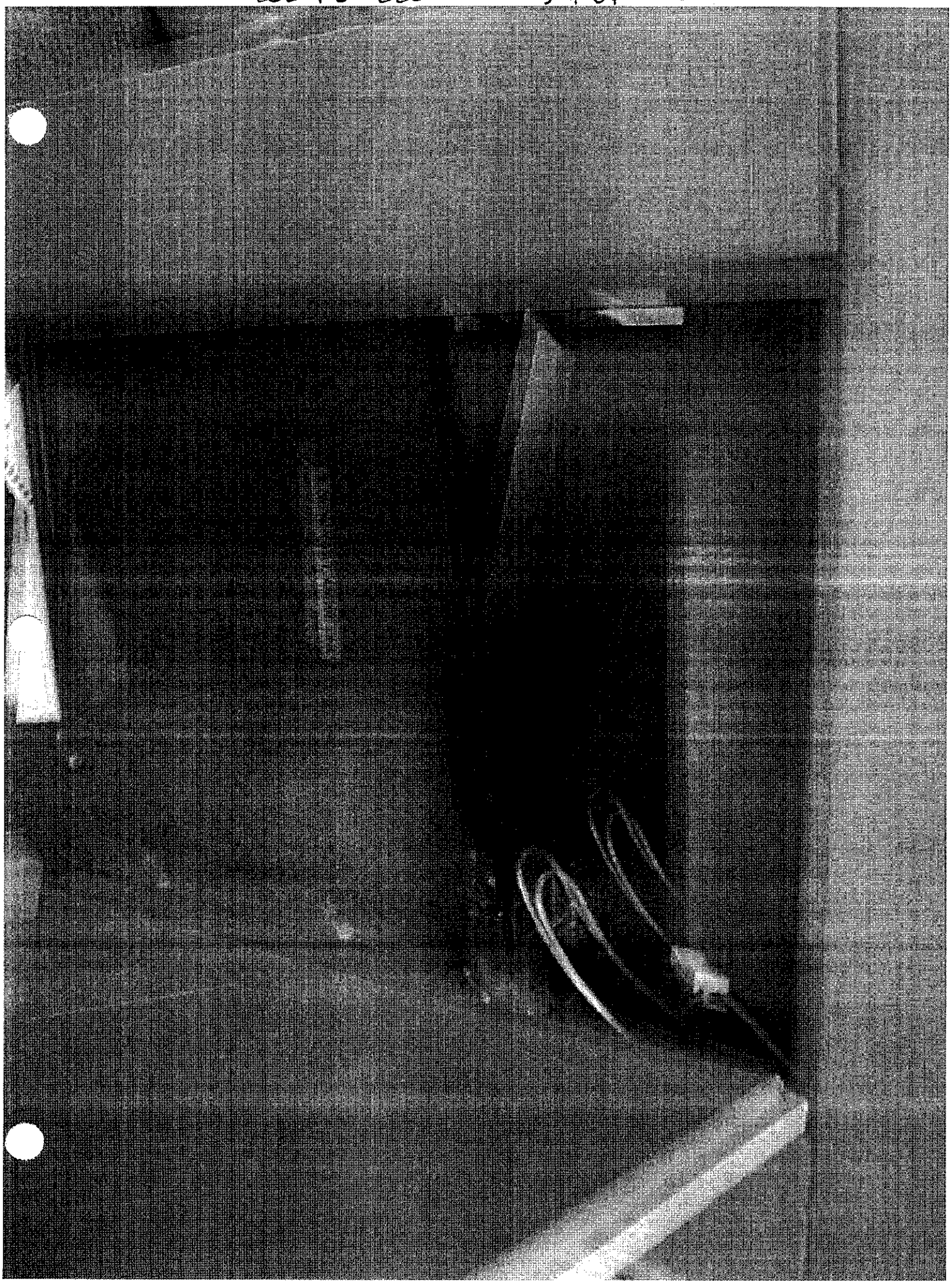
The voting system meets the test requirements.

1st Review	2nd Review	Supervisor Approval
Geneice Mathews	Michael L. Chadwell	John Gardner
Printed name	*Printed name*	*Printed name*
Signature — *Date* 9.4.07	*Signature* — *Date* 9.05.07	*Signature* — *Date* 9/13/07

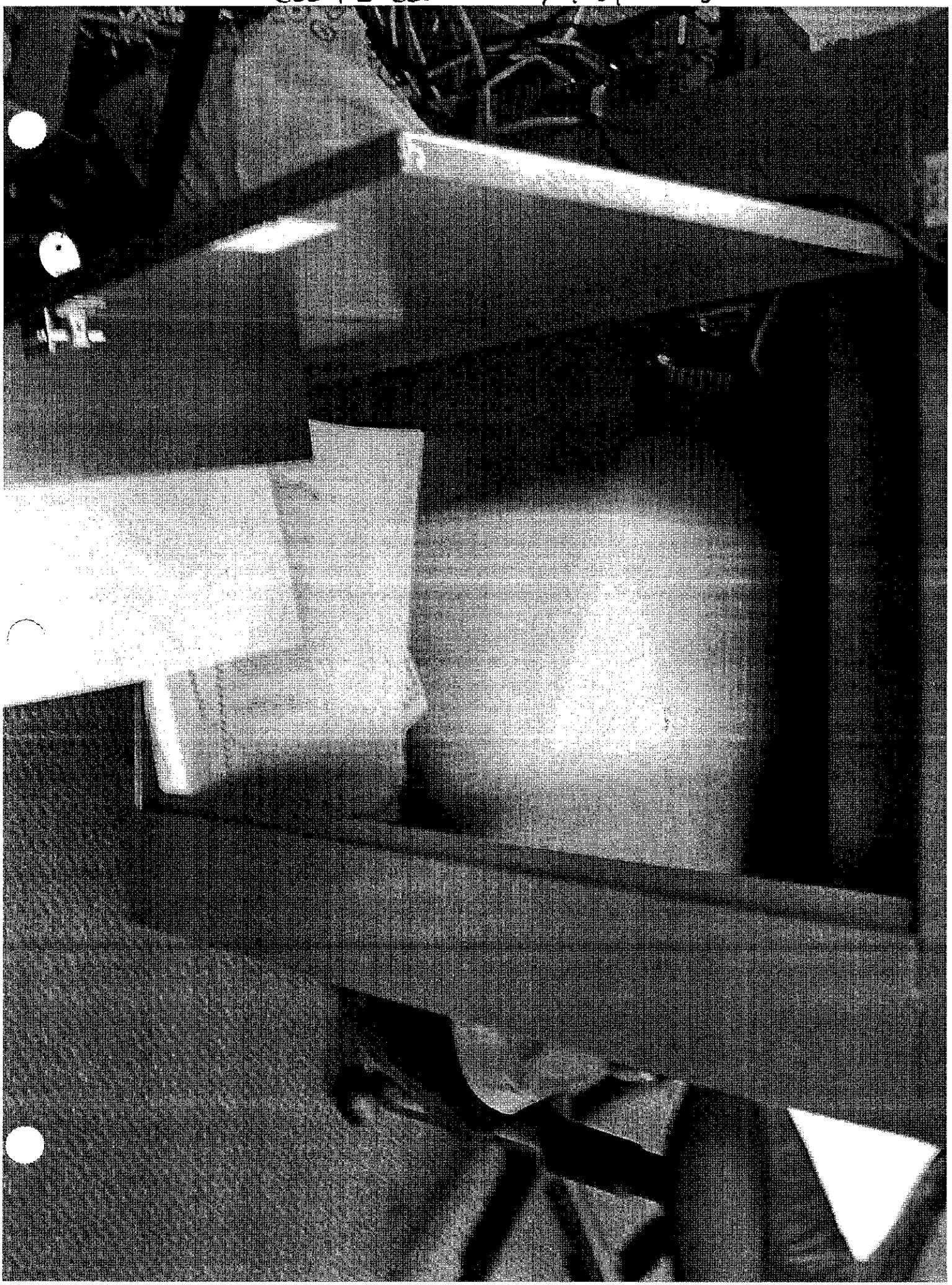
CC2-P3·220 9-4-07



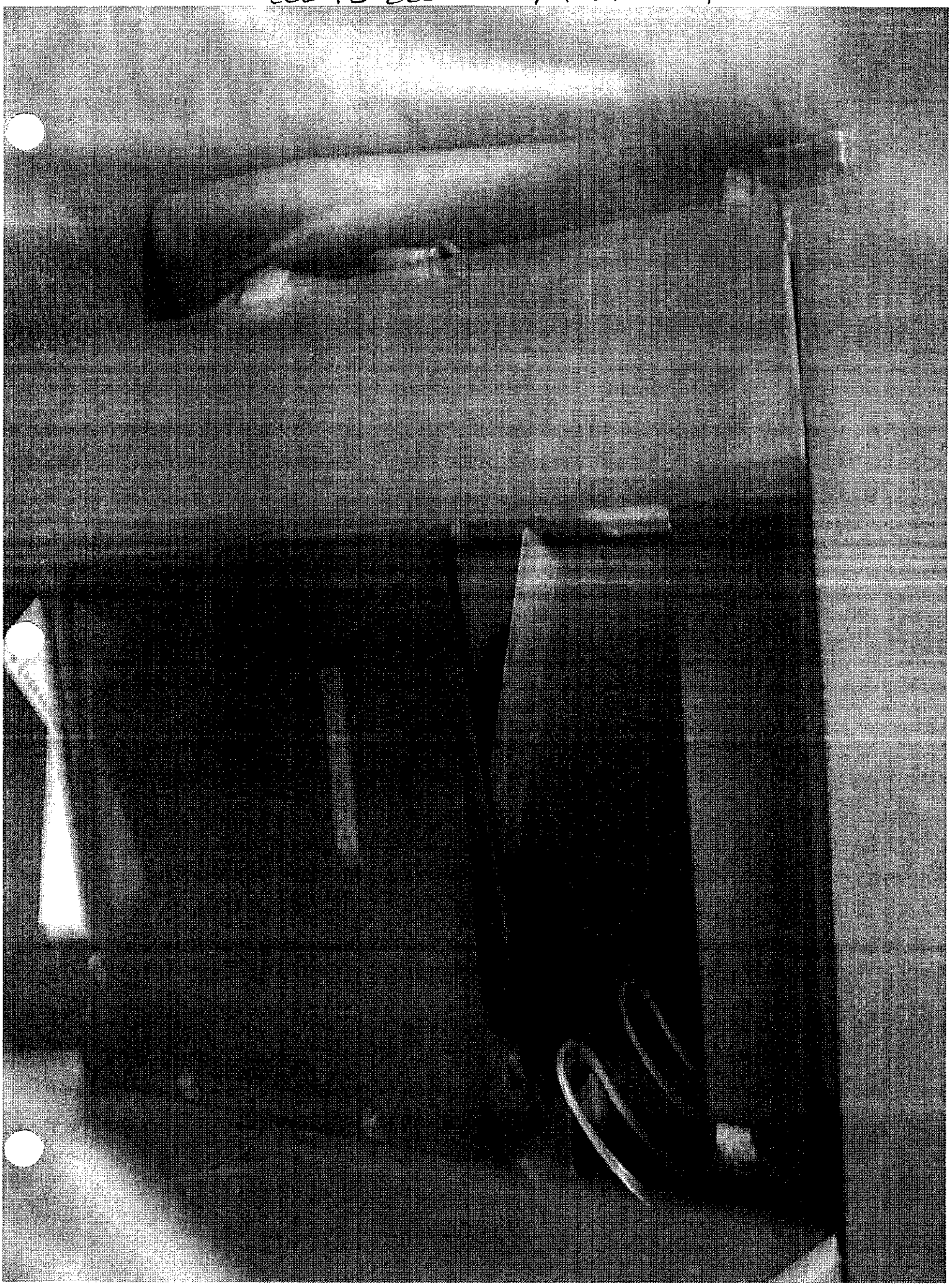
CC2-P3 - 220 3-4-07 2



CC2-P8-220 9.4.07 3



CC2-P3-220 9.4.07 4



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Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 221

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-615(1)(e)(I)	No electronic or electromechanical voting system shall be certified by the secretary of state unless such system: If the elector overvotes it notifies the elector before the ballot is cast that the elector has overvoted.	CC2-P3-221
		Test Date: 7/26/2007
		Test End Date/Time: 7/26/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the voting device notifies the voter of an overvote situation before the ballot is cast.

Prerequisites:

DB2-P3-206
DB2-P3-201 v2.4s

Test Procedures:

Use notes from test DB2-P3-201 for setup and voting, additionally, see notes on DB2-P3-206. Document the findings and effect of the machine processing overvoted ballots.

Variances Used During Testing:

N/A

Test Expected Outcome

The voting system device will notify the voter of an overvote before the vote is cast.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 221

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 221

Testing

Date	Time	Operator	Observations and Entries	Incident Reports

Attachments

Documents (list all documents)	No ☒ Yes ☐	Videos (list all videos)	No ☐ Yes ☒	Photos (list all photos)	No ☒ Yes ☐
		See DB2-P3-201.			

Acceptable Compensating Controls

Results Summary	Final Test Status
The voting system fails to meet the requirements.	FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lewis	T Bishop	John Gardner
Printed name	Printed name	Printed name
Signature: Jerome Lewis — Date: 9/20/07	Signature: T Bishop — Date: 9-20-07	Signature: [illegible] — Date: 9/20/07

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 221

Additional Observations and Findings

Observations:

See notes in DB2-P3-201. The testing board was unable to complete the testing on the device due to the large number of errors when attempting to process ballots through the device, and was therefore unable to fully determine if the marked ballots (and rejected ballots) were processed accurately by the device.

Findings:

The voting system fails to meet the test requirements.

1st Review		2nd Review		Supervisor Approval	
Jerome Lovato		T Bishop		John Gardner	
Printed name		*Printed name*		*Printed name*	
Signature	9/20/07 *Date*	*Signature*	9-20-07 *Date*	*Signature*	9/20/07 *Date*

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 222

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-615(1)(i); 45.6.2.3.14(b)	No electronic or electromechanical voting system shall be certified by the secretary of state unless such system: In a presidential election, permits each elector to vote by a single operation for all presidential electors of a pair of candidates for president and vice president.	CC2-P3-222
		Test Date
		8/16/2007
		Test End Date/Time
		8/16/2007
Cross Reference 1		Test Type (D,F,B)
		Functional
		Eq Type
		PCOS
Cross Reference 2		Equipment Model
		M100
		Serial number
Cross Reference 3		204157
		Manufacturer
		ES & S

Purpose:

The purpose of this test is to verify that the voting system allows voters in a presidential election to select by single operation a pair of electors when necessary.

Prerequisites:

DB2-P3-201, Completion of decks ESS 1CA, or ESS 1CO

Test Procedures:

Use setup and voting instructions from DB2-P3-201. Document the findings and allowances for voting a pair of candidates similar to a presidential election.

Variances Used During Testing:

N/A

Test Expected Outcome

In a presidential election, permits each elector to vote by a single selection for all presidential electors by selection of a pair of candidates for president and vice president. Functional testing includes candidate pairs.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 222

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 222

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☐ Yes ☒	No ☒ Yes ☐
	See DB2-P3-201.	

Acceptable Compensating Controls

Results Summary

The voting system fails to meet the requirements.

Final Test Status

FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lowts	T Bishop	John Gardner
Printed name	Printed name	Printed name
Jerome Lowts 9/20/07	T Bishop 9-20-07	9/20/07
Signature Date	Signature Date	Signature Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 222

Additional Observations and Findings

Observations:

See notes in DB2-P3-201. The testing board was unable to complete the testing on the device due to the large number of errors when attempting to process ballots through the device, and was therefore unable to fully determine if the marked ballots (including votes for pairs of candidates) were processed accurately by the device.

Findings:

The voting system fails to meet the test requirements.

1st Review	2nd Review	Supervisor Approval
Jerome Lewis	T Bishop	John Gardner
Printed name	*Printed name*	*Printed name*
Jerome L Lewis 9/20/07	T Bishop 9-20-07	9/20/07
Signature *Date*	*Signature* *Date*	*Signature* *Date*

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Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 223

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-611(1)(f)(II)	No nonpunch card electronic voting system shall be purchased, leased, or used unless it fulfills the following requirements: If the system uses a voting device: It permits the names of candidates and the text of issues to be printed on pages which are securely attached to the voting device, the pages to be securely locked in a metal frame or sealed to prevent tampering.	CC2-P3-223
		Test Date
		9/13/2007
		Test End Date/Time
		9/13/2007
Cross Reference 1		Test Type (D,F,B)
		Functional
		Eq Type
		PCOS
Cross Reference 2		Equipment Model
		M100
		Serial number
Cross Reference 3		204157
		Manufacturer
		ES & S

Purpose:

The purpose of this test is to verify that the vting device permits the names of candidates and text issues on pages which (where applicable) are secured to the voting device, or locked in a container as required herein to prevent tampering.

Prerequisites:

N/A

Test Procedures:

N/A

Variances Used During Testing:

N/A

Test Expected Outcome

The pages of ballot text are displayed and/or secured in such a manner as to prevent tampering.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 223

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 223

Test Log

Date	Time	Operator	Routines and Entries	Incident Reports

Attachments

Documents (list all documents)	No ☒ Yes ☐	Videos (list all videos)	No ☒ Yes ☐	Photos (list all photos)	No ☒ Yes ☐

Acceptable Compensating Controls

Results Summary

This test is not applicable for this voting device

Final Test Status

N/A

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T. Bishop	John Gardner
Printed name	Printed name	Printed name
Jerome Lovato 9/20/07	T. Bishop 9-20-07	9/20/07
Signature Date	Signature Date	Signature Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 223

Additional Observations and Findings

Observations:

This test is not applicable to this voting device as pages of ballots are not secured to the device.

Findings:

This test is not applicable for this voting device.

1st Review	2nd Review	Supervisor Approval
Jerome Lewis	T. Bishop	John Gardner
Printed name	*Printed name*	*Printed name*
Jerome Lewis 9/20/07	9-20-07	9/20/07
Signature *Date*	*Signature* *Date*	*Signature* *Date*

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 224

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
45.6.2.3.14(g)	Ballots shall include the following minimum race situations to simulate and test "real world" situations in the State of Colorado: Ability to contain a ballot question or issue of at least 200 words.	CC2-P3-224
		Test Date: 7/26/2007
		Test End Date/Time: 7/26/2007
Cross Reference 1:		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2:		Equipment Model: M100
		Serial number: 204157
Cross Reference 3:		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that ballots are printed and tested with a ballot question or issue with at least 200 words.

Prerequisites:

Completion of deck ESS 1CA, or ESS 1CO. DB2-P3-201.

Test Procedures:

Use test setup and voting from DB2-P3-201. Document the systems ability to correctly process ballots with the required length.

Variances Used During Testing:

N/A

Test Expected Outcome

Ballot capable of displaying a question of at least 200 words.

Environment	**2007-CDOS-ESS-001-0403**	*Test Number*
ction - Voting - Post		CC2-P3 - 224

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	*Time*	*Operator*	*Activities and Entries*	*Incident Reports*
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
ction - Voting - Post I		CC2-P3 - 224

Test Log

Date	Time	Operator	Actions and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☐ Yes ☒	No ☐ Yes ☒
	See DB2-P3-201.	See attached.

Acceptable Compensating Controls

Results Summary

The voting system fails to meet the requirements.

Final Test Status

FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lewis	T Bishop	John Gardner
Printed name	Printed name	Printed name
Signature: Jerome C Lewis — Date: 9/20/07	Signature: [illegible] — Date: 9-20-07	Signature: [illegible] — Date: 9/20/07

Environment	2007-CDOS-ESS-001-0403	Test Number
ction - Voting - Post		CC2-P3 - 224

Additional Observations and Findings

Observations:

See notes in DB2-P3-201. The testing board was unable to complete the testing on the device due to the large number of errors when attempting to process ballots through the device, and was therefore unable to fully determine if the marked ballots (including questions over 200 words in length) were processed accurately by the device.

Findings:

The voting system fails to meet the test requirements.

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T. Bishop	John Gardner
Printed name	*Printed name*	*Printed name*
Signature — *Date* 9/20/07	*Signature* — *Date* 9-20-07	*Signature* — *Date* 9/20/07

COORDINATED ELECTION
CERTIFICATION TEST BALLOT
PRECINCT 7202[illegible]

[illegible]

[illegible]

INSTRUCTIONS

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

JOHN CUNNINGHAM
REPUBLICAN

ANDREW JACKSON
DEMOCRAT

STATE HOUSE OF REPRESENTATIVES
DISTRICT 47
VOTE FOR ONE

FRANKLIN ROOSEVELT
DEMOCRAT

HERBERT HOOVER
REPUBLICAN

COUNTY COMMISSIONER
DISTRICT 1
VOTE FOR ONE

ANDY MCELHANY
COMMISSIONER

DAVID E. SCHUETTER
VICE-COMMISSIONER
REPUBLICAN

BILL MARTIN
COMMISSIONER

MARY E. FRENER
VICE-COMMISSIONER
DEMOCRAT

SCHOOL DISTRICT R-1
VOTE FOR THREE

NOREVE FRASER

EARL F. DODGE

LYNN PEFLEY

J. DEANNEZ

SANDRA PANETTA

County Question 1a

SHALL THE COUNTY BE PERMITTED TO EXPEND MONEY IN AMOUNT ABOVE THE TAX REVENUE PROVIDED FOR BY ARTICLE X, SECTION 20 OF THE COLORADO CONSTITUTION, THE AMOUNT BEING IN EXCESS OF TEN MILLION DOLLARS WITH THE PROCEEDS OF THE TAX TO BE COLLECTED, RETAINED AND EXPENDED BY THE COUNTY IN THE SAME MANNER AS OTHER COUNTY TAXES WITH ROAD AND BRIDGE PROPERTY TAX REVENUE, AND WITH THE COUNTY ADJUSTED AND LIMITED TO THE AMOUNT RETAINED PORTION BEING USED FOR THE PURPOSE OF ROAD AND BRIDGE AND DRAINAGE PROJECTS APPROVED BY THE COUNTY BOARD OF COMMISSIONERS?

YES

NO

County Question 1b

Shall the County be authorized to impose a sales and use tax of TABOR election notices per TABOR election in each holding a election of one or more regular elections. In general or coordinated elections, the TABOR election notice shall generally be forwarded to the County clerk to be included with these TABOR notices from other jurisdictions. In the next election, the County shall mail the notice and list of TABOR election notices to each registered elector. By mailing only one set of TABOR election notices, instead of the more required due to order of mailing notices separately, the County Clerk and Clerk and Recorder, the county shall save approximately $30,000 per TABOR election.

YES

NO

County Question 1c

SHALL THE COUNTY TAXES BE INCREASED $14.8 MILLION ANNUALLY (FIRST FULL FISCAL YEAR INCREASE) FOR THE PURPOSE OF IMPROVING PUBLIC SAFETY BY EXPANDING THE EXISTING COUNTY JAIL AND PAYING THE COSTS OF OPERATING, MAINTAINING, CONSTRUCTING AND FINANCING THE EXISTING AND EXPANDED JAIL AND RELATED DETENTION FACILITIES AND PROGRAMS BY THE IMPOSITION OF A 0.40 PERCENT (4 CENTS ON EVERY $10 PURCHASE) SALES AND USE TAX AND THE SIMULTANEOUS REPEAL OF THE COUNTY'S EXISTING 0.20 PERCENT (2 CENTS ON EVERY $10 PURCHASE) SALES AND USE TAX, WHICH WAS APPROVED BY VOTERS AT THE NOVEMBER 1997 ELECTION, TO FINANCE AN EXPANSION OF THE JAIL, SUCH 0.40 PERCENT SALES AND USE TAX TO BE IMPOSED, COLLECTED, ADMINISTERED AND ENFORCED IN THE 2004 AND EACH SUBSEQUENT COLLECTION YEAR AS PROVIDED IN BOARD OF COUNTY COMMISSIONERS RESOLUTION NO. CR2003-0380A, AND SHALL ALL REVENUES FROM SUCH TAX AND ANY EARNINGS THEREON, REGARDLESS OF AMOUNT, CONSTITUTE A VOTER APPROVED REVENUE CHANGE?

YES

NO

County Question 1d

Shall the County be authorized to grant a franchise to Poly Cross Energy for a period of twenty (20) years for the transmission of electrical energy within the County upon the terms and conditions of Franchise Ordinance #41, Series of 2003?

YES

NO

County Question 1e

SHALL THE COUNTY BE PERMITTED TO EXPEND MONEY IN AMOUNT ABOVE THE TAX REVENUE PROVIDED FOR BY ARTICLE X, SECTION 20 OF THE COLORADO CONSTITUTION, THE AMOUNT BEING IN EXCESS OF TEN MILLION DOLLARS WITH THE PROCEEDS OF THE TAX TO BE COLLECTED, RETAINED AND EXPENDED BY THE COUNTY IN THE SAME MANNER AS OTHER COUNTY TAXES WITH ROAD AND BRIDGE PROPERTY TAX REVENUE, AND WITH THE COUNTY ADJUSTED AND LIMITED TO THE AMOUNT RETAINED PORTION BEING USED FOR THE PURPOSE OF ROAD AND BRIDGE AND DRAINAGE PROJECTS APPROVED BY THE COUNTY BOARD OF COMMISSIONERS?

YES

NO

TURN BALLOT OVER
TO CONTINUE VOTING

1 copy LD-92-t

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 225

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
45.6.2.3.14(f)	Ballots shall include the following minimum race situations to simulate and test "real world" situations in the State of Colorado: A minimum of 20 pairs of "yes" and "no" positions for voting on ballot issues.	CC2-P3-225
		Test Date: 8/16/2007
		Test End Date/Time: 8/16/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that ballots are printed and tested with 20 pairs of yes and no positions for voting on ballot issues (a new election definition will be required with printed ballots).

Prerequisites:

N/A

Test Procedures:

Use ballots provided from vendor, or create custom ballots in the Unity software to accommodate the requirements of this test. Document the findings and ability of the system to accommodate.

Variances Used During Testing:

N/A

Test Expected Outcome

Ballot allows a minimum of 20 pairs of yes/no positions.

Environment	2007-CDOS-ESS-001-0403	Test Number
ction - Voting - Post		CC2-P3 - 225

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
8.16.07		Geneice	Not able to create ballots with a minimum #. of pairs of yes no vender not certifying their ballot on demand system. Vender did not provide this scenario for board to test.	

Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
ction - Voting - Post I		CC2-P3 - 225

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☒ Yes ☐	No ☒ Yes ☐

Acceptable Compensating Controls

Results Summary

Unable to test

Final Test Status

GM F

1st Review	2nd Review	Supervisor Approval
G Mathews	Michael L. Chadwell	John Gardner
Printed name	Printed name	Printed name
Signature	Signature	Signature
Date 8/6/07	Date 8.11.07	Date 8/13/07

Environment	2007-CDOS-ESS-001-0403	Test Number
ction - Voting - Post		CC2-P3 - 225

Additional Observations and Findings

Observations:

See log

Findings:

Vendor did not supply their Ballot on Demand system for certification. Ballots are set up with less than 20 pairs of yes / no & positions for ballot issues. Unable to test this scenario

1st Review	2nd Review	Supervisor Approval
G Mathews	Michael L. Chadwell	John Gardner
Printed name	Printed name	Printed name
Signature	Signature	Signature
Date: 8-16-07	Date: 9.11.07	Date: 9/13/07

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 226

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
45.6.2.3.14(d)	Ballots shall include the following minimum race situations to simulate and test "real world" situations in the State of Colorado: In a general election, allow a voter to vote for any candidate for any office, in the number of positions allowed for the office, and to select any measure on the ballot that the candidate is allowed to vote in, regardless of party.	CC2-P3-226
		Test Date: 7/26/2007
		Test End Date/Time: 7/27/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the printing of the ballots shall make allowances for a voter to vote any question, race, office or issue that they are allowed to regardless of party.

Prerequisites:

DB2-P3-201, decks ESS 1CO, ESS 1CA

Test Procedures:

Use ballot setup and voting from DB2-P3-201, document the findings of voting ballot decks ESS 1CO and ESS 1CA.

Variances Used During Testing:

N/A

Test Expected Outcome

In general election mode, voting system allows voter to cast a vote for any candidate in any of the positions allowed regardless of party affiliation.

Environment		Test Number
ction - Voting - Post	**2007-CDOS-ESS-001-0403**	CC2-P3 - 226

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
ction - Voting - Post I		CC2-P3 - 226

Test Log

Date	Time	Operator	Results and Comments	Incident Reports

Attachments

Documents (list all documents)	No ☒ Yes ☐	Videos (list all videos)	No ☐ Yes ☒	Photos (list all photos)	No ☒ Yes ☐
		See DB2-P3-201.			

Acceptable Compensating Controls

Results Summary	Final Test Status
The voting system fails to meet the requirements.	FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	Nic Bishop	John Gardner
Printed name	Printed name	Printed name
Signature: Jerome Lovato — Date: 9/20/07	Signature: Nic Bishop — Date: 9-20-07	Signature: [illegible] — Date: 9/20/07

Environment	2007-CDOS-ESS-001-0403	Test Number
ction - Voting - Post		CC2-P3 - 226

Additional Observations and Findings

Observations:

See notes in DB2-P3-201. The testing board was unable to complete the testing on the device due to the large number of errors when attempting to process ballots through the device, and was therefore unable to fully determine if the marked ballots (including selecting candidate of any party in a general election) were processed accurately by the device.

Findings:

The voting system fails to meet the test requirements.

1st Review		2nd Review		Supervisor Approval	
Jerome Lewis		T Bishop		John Gardner	
Printed name		*Printed name*		*Printed name*	
Signature	*Date* 9/27/07	*Signature*	*Date* 9-20-07	*Signature*	*Date* 9/20/07

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 227

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
45.6.2.3.13	Ballots shall include candidates to represent the maximum number of political parties in the State of Colorado, and shall accommodate all qualified political parties and political organizations.	CC2-P3-227
		Test Date: 8/16/2007
		Test End Date/Time: 8/16/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial/number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that ballots are printed with a representation of all qualified political parties in Colorado.

Prerequisites:

CC3-P3-338; DB2-P3-201.

Test Procedures:

See notes on DB2-P3-201 for ballot setup and machine voting. Document the findings of the voting device processing ballots with all qualified political parties and organizations as required.

Variances Used During Testing:

N/A

Test Expected Outcome

Ballot design allows for all major and minor political parties.

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election - Voting		CC2-P3 - 227

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election - Voting		CC2-P3 - 227

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	No ☒ Yes ☐	Videos (list all videos)	No ☐ Yes ☒	Photos (list all photos)	No ☒ Yes ☐
		See DB2-P3-201.			

Acceptable Compensating Controls

Results Summary	Final Test Status
The voting system fails to meet the requirements.	FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lovato	T Bishop	John Gardner
Printed name	Printed name	Printed name
Jerome Lovato	T Bishop	
Signature	Signature	Signature
9/20/07	9-20-07	9/20/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election - Voting		CC2-P3 - 227

Additional Observations and Findings

Observations:

See notes in DB2-P3-201. The testing board was unable to complete the testing on the device due to the large number of errors when attempting to process ballots through the device, and was therefore unable to fully determine if the marked ballots (including the accommodation of candidates of all political parties) were processed accurately by the device.

Findings:

The voting system fails to meet the test requirements.

1st Review		2nd Review		Supervisor Approval	
Jerome Lewis		T Bishop		John Gardner	
Printed name		*Printed name*		*Printed name*	
Jerome Lewis	9/20/07	T Bishop	9-20-07		9/20/07
Signature	*Date*	*Signature*	*Date*	*Signature*	*Date*

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 228

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
45.6.2.3.11	Ballot design shall cover the scope of allowable designs for the given system. For example, if a system is capable of producing 11" and 18" ballots, then both ballot styles shall be tested in each of the elections above. If more sizes are available, they shall also be tested. Ballots must be designed and presented with a maximum of four (4) columns and a minimum of one (1) column.	CC2-P3-228
		Test Date: 7/26/2007
		Test End Date/Time: 7/26/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the voting system provider has provided ballots in all formats possible by the system each type of ballot shall be presented for testing.

Prerequisites:

Instructions for voting system vendors.

Test Procedures:

See test log for procedures used to setup and program ballots with required number of columns.

Variances Used During Testing:

N/A

Test Expected Outcome

System is capable of producing ballots as documented. Design allows for at least one column and at most 4 columns.

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election - Voting		CC2-P3 - 228

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports
7-26-07		Gerrice	Ballots used are 14" and 19"	
			The primary provided by the vendor is	
			14" long. The Coordinated is 19" long	
			and the Recall is 14". The two	
			page ballot is 17"	
			Design allows for at least one	
			column and goes up to 3 columns	
			per page, it does not allow for	
			4 columns per page.	
7-31-07			Procedure in Database to Receive	
			Screen shots	
			(1) Open ESSIM, Open help	
			index, type in 'columns', select 'Columns'	
			in drop down list, receive another	
			list select 'Selecting Page Layout	
			Options', go to 'recomended	
			default options' this shows	
			Column layout selections.	
			(2) Open ESSIM, select 'Ballot',	
			select 'Page Layout', see drop down	
			these are the types of columns	
			a user can create at the most 3.	

Environment	**2007-CDOS-ESS-001-0403**	***Test Number***
Pre Election - Voting		CC2-P3 - 228

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	*Time*	*Operator*	*Activities and Entries*	*Incident Reports*
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election - Voting		CC2-P3 - 228

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election - Voting		CC2-P3 - 228

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	No ☐ Yes ☒	Videos (list all videos)	No ☐ Yes ☐	Photos (list all photos)	No ☐ Yes ☒
ESS IM users guide Doc 2 attached pg 21-22				Photo 1,	

Acceptable Compensating Controls

Results Summary	Final Test Status
~~Test Meets Expected Outcome~~ System cannot create ballots up to 4 columns only 3	F

1st Review	2nd Review	Supervisor Approval
Genelice Mathews	Michael L. Chadwell	John Gardner
Printed name	Printed name	Printed name
Signature	Signature	Signature
7-31-07	9.05.07	9/13/07
Date	Date	Date

Environment	2007-CDOS-ESS-001-0403	Test Number
Pre Election - Voting		CC2-P3 - 228

Additional Observations and Findings

Observations:

See log

Findings:

System is capable of producing ballots as documented, see doc attached. Design allows for at least one column and only goes up to 3 columns per page. System cannot create ballots up to 4 columns.

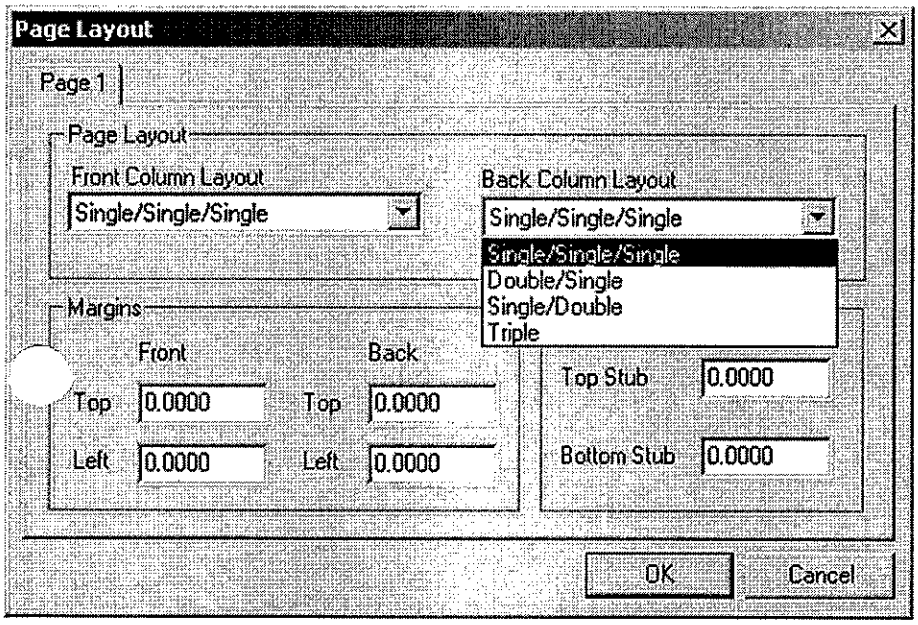
1st Review	2nd Review	Supervisor Approval
Genelle Mathews	Michael L. Chadwell	John Gardner
Printed name	Printed name	Printed name
Signature: [signature]	Signature: [signature]	Signature: [signature]
Date: 7-31-07	Date: 9.05.07	Date: 9/13/07

7-31-07
CC2-P3-228

Photo 1

Recommended Ballot Page Layout Settings

Ballot Type	Ballot Size	Front Column Layout	Back Column Layout	Oval Position	Oval Width	Overlay
AIS Precinct Count (New Oval)	14" 36 Rows 216 Ovals	Single/ Single/ Single	Single/ Single/ Single	Left	2	None



EMS (ESSIM) database for a blank election.
Screen shots show column options.

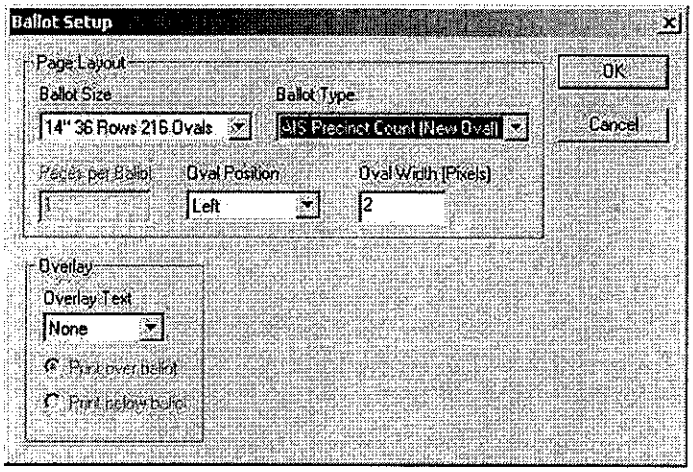
ESSIM Userguide
7-31-07
CC2-P3-228

Selecting Ballot Setup Options

Use the **Ballot Setup** command to configure the size of your ballots, select the number of ovals that appear on the ballot face, select a ballot type, format the appearance and position of voting targets, and place overlay text on your ballots.

To set up a ballot face

1. Under the **Ballot** menu, click **Ballot Setup** to open the Ballot Setup Window.



2. From the **Ballot Size** list, select the dimensions of your ballots as well as the number of rows and oval positions that appear on the ballot face. Select **14" 36 Rows 216 Ovals** if your jurisdiction uses standard 14-inch ES&S ballots. Select **17" 41 Rows 246 Ovals** if your jurisdiction uses standard 17-inch ballots.

   Note: The **Ballot Size** list contains custom settings for specific jurisdictions and four-column ballots. Check the ballot settings for your area or contact ES&S if your jurisdiction uses ballots with non-standard measurements.

3. From the **Ballot Type** list, select one of the following voting target types for your ballots.

   - **AIS Original:** Select **AIS Original** if your jurisdiction uses ballot stock pre-printed with standard ES&S oval voting targets. Original ovals work best with central scanners.

   - **AIS Precinct Count (New Oval):** Select **AIS Precinct Count (New Oval)** to have ES&S or a partner printer print ovals on blank ballot stock with your contest and candidate information. Use new ovals if you need to control the line width of your voting targets.

- **AIS Arrow:** Select **AIS Arrow** if your jurisdiction uses arrow as voting targets instead of ovals.

4. If your ballots take up more than one sheet of ballot stock, front and back, type the number of sheets that your ballot requires in the **Pages per Ballot** box.

5. From the **Oval Position** list, select **Left** or **Right** to place voting targets to the left or right of ballot text. Most jurisdictions place targets to the left. Check the documentation for your scanner or call ES&S customer support to determine whether your scanning equipment supports targets placed to the right of ballot text before selecting **Right**.

6. In the **Oval Width (Pixels)** box, type a pixel measurement, to set the thickness of oval voting targets. You cannot format ballot target thickness if you choose **AIS Arrow** from the **Ballot Type** list.

   Note: One pixel is a measurement representing the smallest amount of information displayed graphically on the screen as a single dot.

7. From the **Overlay** list, select **Test, Sample** or **Specimen** to print the selected word in light gray letters across the face of test ballots. Select **None** to format official ballots. Click **Print over ballot** to print overlay text over ballot text. Click **Print below ballot** to print ballot text above overlay text.

Photo 2
CC2223-228

INSTRUCTIONS

To vote correctly, fill in the oval next to the candidate of your choice. Be careful to stay within the lines.

Do not add any additional lines.

Do not remove ballot stub.

If you make a mistake, mark your ballot and see the Election Judge.

STATE SENATE
DISTRICT 1
VOTE FOR ONE

BUGGS BUNNY

DAFFY DUCK

STATE HOUSE OF REPRESENTATIVES
DISTRICT 29
VOTE FOR ONE

THERE ARE NO CANDIDATES FOR THIS OFFICE

COUNTY COMMISSIONER
ANDY CALLAHAN
VOTE FOR ONE

DAVID C. SCHUETHEIS

State of Colorado
Department of State
1700 Broadway
Suite 250
Denver, CO 80290

Mike Coffman
Secretary of State

Holly Lowder
Director of Elections

CDOS Certification Number: **2007-CDOS-ESS-001-0403**

Manufacturer: *ESS*

Application Date: *04/03/2007*

Test Number
CC2-P3 - 229

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Rule or Statute	2007-CDOS-ESS-001-0403	Test Number
1-5-615(1)(e)(II)	No electronic or electromechanical voting system shall be certified by the secretary of state unless such system: If the elector overvotes it notifies the elector before the vote is cast that an overvote for any office, ballot question, or ballot issue will not be counted.	CC2-P3-229
		Test Date: 7/31/2007
		Test End Date/Time: 7/31/2007
Cross Reference 1		Test Type (D,F,B): Functional
		Eq Type: PCOS
Cross Reference 2		Equipment Model: M100
		Serial number: 204157
Cross Reference 3		Manufacturer: ES & S

Purpose:

The purpose of this test is to verify that the voting device notifies the voter before the vote is cast that an overvote will not be counted.

Prerequisites:

CC2-P3-202

Test Procedures:

See notes on CC2-P3-202 for voting and election setup information. Document the process and ability of the system to notify an elector that an overvote will not be counted.

Variances Used During Testing:

N/A

Test Expected Outcome

The voting system will notify the voter that the system will not count an overvote.

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 229

Test Log

The test log shall contain procedural steps used to conduct and evaluate the tests. At a minimum, these procedural steps shall include any items related to the setup, start, process, measurements, shut down, retarting, stop and restoring the system as necessary.

Date	Time	Operator	Activities and Entries	Incident Reports
				Continue to next page...

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 229

Test Log

Date	Time	Operator	Activities and Entries	Incident Reports

Attachments

Documents (list all documents)	Videos (list all videos)	Photos (list all photos)
No ☒ Yes ☐	No ☐ Yes ☒	No ☒ Yes ☐
	See DB2-P3-201.	

Acceptable Compensating Controls

Results Summary	Final Test Status
The voting system fails to meet the requirements.	FAIL

1st Review	2nd Review	Supervisor Approval
Jerome Lewis	T Bishop	John Gardner
Printed name	Printed name	Printed name
Signature: Jerome Lewis — Date: 9/20/07	Signature: T Bishop — Date: 9-20-07	Signature: [illegible] — Date: 9/20/07

Environment	2007-CDOS-ESS-001-0403	Test Number
Voting		CC2-P3 - 229

Additional Observations and Findings

Observations:

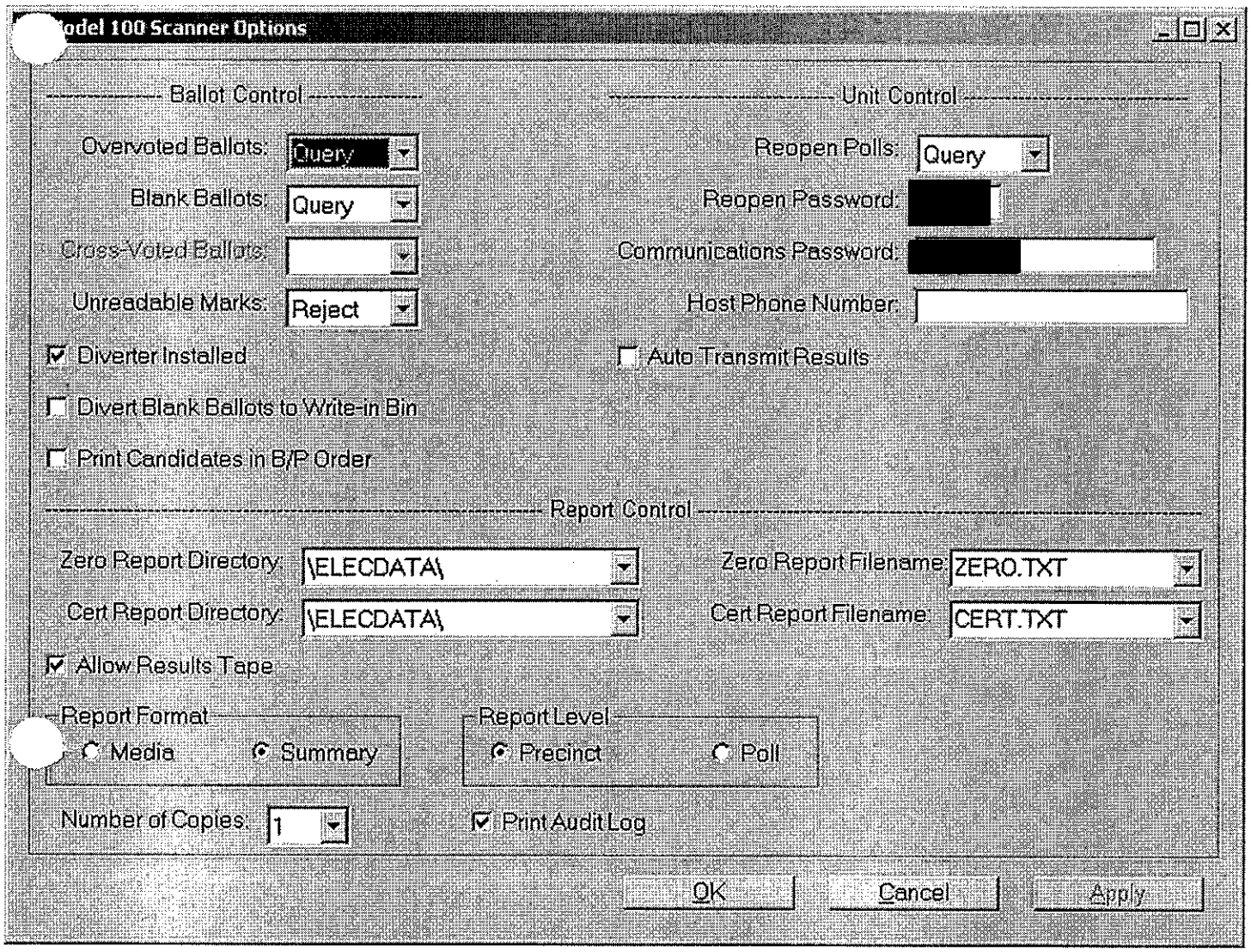
See notes in DB2-P3-201. The testing board was unable to complete the testing on the device due to the large number of errors when attempting to process ballots through the device, and was therefore unable to fully determine if the marked ballots (and rejected ballots) were processed accurately by the device.

Findings:

The voting system fails to meet the test requirements.

1st Review		2nd Review		Supervisor Approval	
Jerome Lovato		T Bishop		John Gardner	
Printed name		*Printed name*		*Printed name*	
Signature	9/20/07	Signature	9-20-07	Signature	9/20/07
Signature	*Date*	*Signature*	*Date*	*Signature*	*Date*

7-31-07
CC2-P3-229
Photo 1



EMS system for MUCO - overvoted ballots are set to Query - this allows the voter to accept or reject an overvoted ballot. Two other options are present which are Reject or Accept.