

# COMMONWEALTH OF PENNSYLVANIA TEST REPORT FOR RE-EXAMINATION OF DOMINION VOTING SYSTEMS AVC EDGE MODEL 2 DRE VOTING SYSTEM AND WINEDS 3.1.012

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# **1.0 INTRODUCTION**

# 1.1 Scope

A re-examination of the Dominion Voting Systems AVC Edge Model 2 Direct Recording Electronic (DRE) Voting System and Win-EDS 3.1.012 (hereafter referred to as "Edge Model 2 Voting System") was performed per the direction of the Secretary of the Commonwealth, acting through the Pennsylvania Department of State, Bureau of Commissions, Elections and Legislation. This test report documents the procedures followed, the results obtained, and the conclusions drawn from that re-examination.

# 1.2 Objective

The objective of the re-examination was to examine the Edge Model 2 Voting System, previously certified for use in the Commonwealth of Pennsylvania on February 15, 2006, to determine whether the system remains compliant with the requirements of Article XI-A of the Pennsylvania Election Code, sections 1101-A to 1122-A, 25 P.S. §§ 3031.1 – 3031.22 and to document compliance through the execution of single thread test cases where applicable.

# 1.3 References

The documents listed below were utilized in the development of the Test Report:

- Article XI-A of the Pennsylvania Election Code, sections 1101-A to 1122-A, 25 P.S. §§ 3031.1 3031.22
- Federal Election Commission 2002 Voting Systems Standards
- Help America Vote Act (HAVA) of 2002, Public Law 107-252, 42 U.S.C. § 15301 et seq.
- Pro V&V Test Protocol for Re-Examination of Dominion Voting System AVC Edge Model 2 DRE Voting System and WinEDS 3.1.012

# **1.4** Terms and Abbreviations

Term	Abbreviation	Definition	
Americans with Disabilities Act	ADA	Americans with Disabilities Act of 1990 is a law enacted by the United States Congress to prohibit discrimination based on disability.	
Commercial Off-The- Shelf	COTS	Commercial, readily available hardware or software.	
Direct Recording Electronic	DRE	An electronic voting system that utilizes electronic components for the functions of ballot presentation, vote capture, vote recording and tabulation which are logically and physically integrated into a single unit.	
Election Management System	EMS	Set of processing functions and databases within a voting system that defines, develops and maintains election databases, performs election definitions and setup functions, formats ballots, counts votes, consolidates and reports results, and maintains audit trails.	

Term	Abbreviation	Definition		
Federal Election	FEC	Commission created in 1975 to regulate the		
Commission	TLC	campaign finance legislation in the United States.		
Independent Testing Authority	ITA	Independent testing organizations accredited by the National Association of State Election Directors (NASED) to perform voting system qualification testing.		
Technical Data Package	TDP	Manufacturer's documentation related to the voting system required to be submitted with the system as a precondition for certification.		
Federal Election Commission 2002 Voting System Standards	VSS	Voluntary guidelines published by the FEC, the second iteration of national level voting system standards.		

## 2.0 SYSTEM OVERVIEW AND IDENTIFICATION

The Edge Model 2 Voting System is a DRE Voting System that consists of the AVC Edge Model 2 DRE voting device, the Card Activator and the ADA Handset.

The Edge Model 2 Voting System provides a color Liquid Crystal Display (LCD) with an integrated touchscreen to present the ballot to the voter and allow the voter to make selections. The Edge Model 2 Voting System also includes a control panel for use by election poll workers, electronic circuitry and processing devices for performing system functions, internal memory for storing ballot data and voting records, a removable results cartridge with non-volatile memory, protective and public counters, and integrated voter privacy panels.

The Edge Model 2 Voting System is a stand-alone system that does not require any networking to a central system in order to function. All processing, from loading the ballots generated in WinEDS (the election management software utilized by the Edge Model 2 Voting System) to recording voter's selections, are done on the individual units. Accumulating tallies is accomplished via a Results Cartridge.

The Results Cartridge stores:

- An election representation of the ballot
- Ballot logic to enable the voter to make those selections to which they are lawfully entitled
- The aggregated vote totals
- A randomized record of all individual ballots cast
- A chronological log of significant machine operations, including error conditions

The Card Activator is designed to activate voter cards, which enables the voter to vote upon card insertion into the AVC Edge Model 2 DRE voting device.

The ADA Handset is an optional audio voting accessory used for audio voting with the AVC Edge Model 2 DRE voting device.

# 2.1 Software

The software listed in Table 2.1 was used during the examination of the Edge Model 2 Voting System. Table 2.1 provides the component name, software/firmware version and a SHA-1 Hash, if calculated, during the re-examination.

#### Table 2.1 Software

Component Name	Version	Unique Identifier (digital signature or hash value)
AVC Edge Firmware	5.0.24	12202f7415c59e1f0a2c693c8f0fd3865f2d9497 – SHA1
WinEDS	3.1.012	Not Calculated

#### 2.2 Hardware

Table 2.2 provides hardware component name, model number, and the serial number for the units that were examined.

Component Name	Model Number	Serial Numbers(s)	Description	
AVC Edge Model 2 DRE Voting System	AVC Edge 2	45692, 46043, 47530	A DRE Voting device which uses color LCD with an integrated touchscreen, a control panel for use by election poll workers, electronic circuitry and processing devise, internal memory for storing ballot data and voting records, a removable results cartridge, protective and public counters, and integrated voter privacy panels.	
Card Activator		7037	Activates voter cards, which enables the voter to vote on the AVC Edge Model 2 DRE voting device upon card insertion.	
ADA Handset			An optional audio voting accessory used for audio voting.	

#### Table 2.2 Hardware

# 2.3 **Peripherals**

Table 2.3 provides the peripheral components used during the re-examination.

#### **Table 2.3 Peripherals**

Part Name	Model Number	Description	
PCMCIA Cards		Results cartridges	
Desktop Printer	Brother HL 2240	COTS Printer to print EMS reports	
Voter Access Cards		Smart cards programmed by Card Activator	

## 2.4 Test Support Equipment/Materials

The test materials listed in Table 2.4 were used during the re-examination.

#### **Table 2.4 Materials**

Part Name	Quanitity	Description	
8 <sup>1</sup> / <sub>2</sub> " x 11" paper	Various	EMS report paper	
Paper rolls	Various	Result paper rolls	
USB Flash Drive	1	Sandisk USB 2.0 Cruzer 8 GB	

#### **3.0 TEST PROCESS**

#### 3.1 Background

The Edge Model 2 Voting System was certified for use in the Commonwealth of Pennsylvania on February 15, 2006 after an examination was conducted pursuant to the Pennsylvania Election Code. The Edge Model 2 Voting System has been in use by Pennsylvania counties since its initial certification. Pursuant to section 1105-A of the Pennsylvania Election Code, 25 P.S. § 3031.5, a group of Pennsylvania voters formally requested that the Secretary conduct a re-examination of the Edge Model 2 Voting System. The Secretary granted the request. Pro V&V, Inc. was contracted to develop test protocols and conduct the re-examination testing to ascertain whether the certified electronic voting system complies with the requirements set forth in the Pennsylvania Election Code.

#### **3.2** General Information

The re-examination of the Edge Model 2 Voting System was performed by Jack Cobb of Pro V&V, Inc. (the "Examiner"), per the direction of the Secretary of the Commonwealth, acting through the Pennsylvania Department of State, Bureau of Commissions, Elections and Legislation. The re-examination commenced on March 5, 2012, at the Commonwealth Keystone Building, Hearing Room 1, 400 North Street, Harrisburg, Pennsylvania. The re-examination lasted approximately eight hours.

#### 3.3 Test Approach

To achieve the objective of this re-examination, the Examiner separated the requirements of Article XI-A of the Pennsylvania Election Code, sections 1101-A to 1122-A, 25 P.S. §§ 3031.1 -3031.22, into four main areas of test execution: (1) Review; (2) Targeted Functionality; (3) System Integration; and (4) Penetration Analysis. The "Review" testing consisted of analyzing ITA and other third-party reports for specific tests that satisfied the requirements of the Pennsylvania Election Code and verifying that the Edge Model 2 Voting System met those requirements. The "Targeted Functionality" testing sought to ascertain whether the Edge Model 2 Voting System met all of the requirements of the Pennsylvania Election Code that could be met by execution of a single thread test case. The "System Integration" testing sought to ascertain whether the Edge Model 2 Voting System met all of the requirements of the Pennsylvania Election Code that could be met by the execution of an entire election. General and closedprimary election definitions were devised and run for the pre-voting, voting, and post-voting functions of the voting system. The "Penetration Analysis" testing sought to ascertain whether the Edge Model 2 Voting System met all of the requirements of the Pennsylvania Election Code that could be met by analyzing security procedures and impoundment of ballots. Precinct tabulation devices were installed for delivery to the precinct, and analysis of the security procedures performed. Appendix A ("As Run Test Protocol") contains the details of the test protocol performed on the Edge Model 2 Voting System.

# 4.0 TEST FINDINGS AND RECOMMENDATIONS

The Edge Model 2 Voting System, listed in Section 2.0 of this report, was subjected to the tests summarized in the following paragraphs.

#### 4.1 Review

A review of the ITA reports listed on page 90 of Appendix A was conducted to determine compliance with the following sections of the Election Code:

- 25 P.S. § 3031.5(a), requiring that a DRE "ha[ve] been examined and approved by a federally recognized independent testing authority" and that it "meet any voting system performance and test standards established by the Federal Government;"
- 25 P.S. § 3031.7(11), requiring that a DRE be "suitably designed for the purpose used, ... constructed in a neat and workmanlike manner of durable material of good quality, ... safely and efficiently useable in the conduct of elections and, with respect to the counting of ballots cast at each district, ... suitably designed and equipped to be capable of absolute accuracy, which accuracy shall be demonstrated to the Secretary of the Commonwealth;"
- 25 P.S. § 3031.7(13), requiring that a DRE, "when properly operated, records correctly and computes and tabulates accurately every valid vote registered;"
- 25 P.S. § 3031.7(14), requiring that a DRE be "safely transportable;" and
- 25 P.S. § 3031.7(15), requiring that a DRE be "so constructed that a voter may readily learn the method of operating it."

**Summary Findings:** The test reports submitted by Dominion Voting Systems satisfied the requirements set forth in 25 P.S. § 3031.5(a). The Edge Model 2 Voting System was examined and approved by an ITA as meeting the applicable performance and test standards. *See* CIBER report Software Qualification Test Report Sequoia WinEDS 3.1.012, Version 3.0, dated March 17, 2006.

The design requirements of Sections 3031.7(11) and (14) of the Pennsylvania Election Code were met by the documented Product Safety Test and Accuracy Test. *See* page 91 of Appendix A. The transportation requirements of Section 3031.7(14) of the Pennsylvania Election Code were met by the combination of documented Hardware Non-Operating Environmental Tests which included: bench handling, vibration, low temperature, high temperature, and humidity. These tests were designed to test the storage of precinct tabulation devices between elections, as well as transportation between the storage facility and the polling place. *See* Wyle Report Numbers 51884-03, 51884-04, 51884-05, 51884-06, and 51884-07.

The accuracy requirements of Sections 3031.7(11) and (13) of the Pennsylvania Election Code were met by the documented Accuracy Test submitted in the ITA reports. *See* page 91 of Appendix A.

The manufacturer did not provide a Summative Usability Report to meet the requirements set forth in 25 P.S. § 3031.7(15). The Examiner, however, did not encounter any issues performing the method of operation for standard voting sessions or ADA voting sessions during execution of the re-examination. Additionally, Department of State staff members were used to input voting data for the system integration area of testing. No operational issues were reported.

By review of the above stated documents, and the certification to the FEC 2002 VSS of the Edge Model 2 Voting System, I conclude the Edge Model 2 Voting System meets these requirements of the Pennsylvania Election Code.

# 4.2 Targeted Functionality

As set forth in the Test Protocols published before the re-examination, nine test cases were designed to determine compliance with the requirements of 25 P.S. § 3031.7(1), (2), (3), (4), (5), (7), (10) and (16). The Examiner conducted each of these tests, with necessary modifications as discussed below. The following is a list of the individual test cases and a summary of the results and observations for each test case.

# Test Case Identifier: 01 – 1107-A(1), 25 P.S. § 3031.7(1) Voter Secrecy (Regular Voter):

This test case was designed to test for compliance with 25 P.S. § 3031.7(1), requiring that a DRE "provides for voting in absolute secrecy and prevents any person from seeing or knowing for whom any voter, except one who has received or is receiving assistance as prescribed by law, has voted or is voting." This test case required observation of voter input from a distance that is considered public space for a DRE in the standard voting position. Three different observation positions were used to observe what, if any, voter inputs could be seen.

**Summary Finding:** During the execution of this test case, the observer did report being able to see parts of the ballot and voter inputs. The observer could not see the actual selections. Any jurisdiction using the Edge Model 2 Voting System should follow Directive 4 of "Directive Concerning the Use, Implementation and Operation of Electronic Voting Systems by the County Board of Elections," dated April 28, 2009, and issued by the Secretary of the Commonwealth. In my opinion, the Edge Model 2 Voting System, if setup per Directive 4, can provide for secrecy so that no person can see whom any voter has voted for, thus meeting the requirement of the Election Code.

# <u>Test Case Identifier: 01 – 1107-A(1), 25 P.S. § 3031.7(1) Voter Secrecy (ADA Voter):</u>

This test case was designed to determine whether audible and visual voter input from a distance that is considered public space for a DRE in the ADA position could be observed by a third-party. Before test execution, it was determined that the examination room's size and acoustics were invalid for the audio portion of the test (only visual observations were recorded).

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. The observer did report being able to see parts of the ballot and voter inputs. It should be noted however, that this test was conducted while the Edge Model 2 Voting System was activated for a standard voting session for the purposes of the observations. In an actual ADA voting session the LCD display is not active. Any jurisdiction using the Edge Model 2 Voting System should follow Directive 4 of "Directive Concerning the Use, Implementation and Operation of Electronic Voting Systems by the County Board of Elections," dated April 28, 2009, and issued by the Secretary of the Commonwealth. In my opinion, the Edge Model 2 Voting System, if setup per Directive 4, can provide for secrecy so that no person can see whom any ADA voter has voted for, thus meeting the requirement of the Election Code.

# <u>Test Case Identifier: 02 – 1107-A(2), 25 P.S. § 3031.7(2) Selection of Candidates and</u> <u>Questions by Voter (Regular/ADA):</u>

This test case was designed to test for compliance with 25 P.S. § 3031.7(2), requiring that a DRE "provides facilities for voting for such candidates as may be nominated and upon such questions as may be submitted." This test case ensures a vote for a candidate for "1 of 1," "N of M," and "Question" contests could be recorded and reported as input for a standard voting session and an ADA voting session.

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. The Edge Model 2 Voting System successfully recorded and reported votes for "1 of 1," "N of M," and "Question" contests for both a standard voting session and an ADA voting session. The actual results obtained during execution met the expected results. *See* page 66 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude that the Edge Model 2 Voting System meets the requirements of Section 3031.7(2) of the Pennsylvania Election Code.

## <u>Test Case Identifier: 03 – 1107-A(3), 25 P.S. § 3031.7(3) Straight-Party and Pennsylvania</u> <u>Method:</u>

This test case was designed to test for compliance with 25 P.S. § 3031.7(3), which requires that a DRE allow a voter to perform straight-party voting according to the "Pennsylvania Method." This test case was designed to ensure that a straight-party selection and the Pennsylvania Method of straight-party voting could be recorded and reported as input for a standard voting session and an ADA voting session.

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. During the execution of this test case, the Edge Model 2 Voting System successfully recorded and reported straight-party votes and demonstrated the Pennsylvania Method of straight-party voting for both a standard voting session and an ADA voting session. The actual results obtained during execution met the expected results. *See* page 68 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude that the Edge Model 2 Voting System meets the requirements of Section 3031.7(3) of the Pennsylvania Election Code.

#### Test Case Identifier: 04 – 1107-A(4), 25 P.S. § 3031.7(4) Straight-Party and Write-In:

This test case was designed to test for compliance with 25 P.S. § 3031.7(4), which requires that a DRE permit a voter to vote for a candidate of his or her choice through a straight-party or write-in voting. This test case ensures that both a straight-party and write-in selection could be recorded and reported as input for a standard voting session and an ADA voting session.

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. During the execution of this test case, the Edge Model 2 Voting System successfully recorded and reported straight-party and write-in votes for both a standard voting session and an ADA voting session. The actual results obtained during execution met the expected results. *See* page 72 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude the Edge Model 2 Voting System meets the requirements of Section 3031.7(4) of the Pennsylvania Election Code.

# <u>Test Case Identifier: 05 – 1107-A(5), 25 P.S. § 3031.7(5) Selection of Candidate and Write-</u> <u>in:</u>

This test case was designed to test for compliance with 25 P.S. § 3031.7(5), which requires that a DRE permit a voter to vote for any candidate or write-in a candidate. This test case ensures that a candidate and write-in selection could be recorded and reported as input for a standard voting session and an ADA voting session.

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. During the execution of this test case the Edge Model 2 Voting System successfully recorded and reported candidate selections and write-in votes for both a standard voting session and an ADA voting session. The actual results obtained during execution met the expected results. *See* page 75 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude the Edge Model 2 Voting System meets the requirements of Section 3031.7(5) of the Pennsylvania Election Code.

# <u>Test Case Identifier: 07 – 1107-A(7), 25 P.S. § 3031.7(7) Attempt to Over Vote Contests and Questions (Regular/ADA):</u>

This test case was designed to test for compliance with 25 P.S. § 3031.7(7), which requires that a DRE prevent a voter from over voting. This test case ensures that a voter could not over vote for a contest or question during a standard voting session and an ADA voting session.

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. The Edge Model 2 Voting System successfully prohibited a voter from selecting more than the number of allowable selections, including write-in votes, for both a standard voting session and an ADA voting session. The actual results obtained during execution met the expected results. *See* page 78 of Appendix A. The objective criteria for evaluation were analyzed and the system met the criteria. Therefore, I conclude the Edge Model 2 Voting System meets the requirements of Section 3031.7(7) of the Pennsylvania Election Code.

# <u>Test Case Identifier: 10 – 1107-A(10), 25 P.S. § 3031.7(10) Ballot Review and Change (Regular/ADA):</u>

This test case was designed to test for compliance with 25 P.S. § 3031.7(10), which requires that a DRE allow for ballot review and change before casting the ballot. This test case ensures that a voter can review a voted ballot and make changes before casting the ballot and have a cast ballot input during a standard voting session and an ADA voting session.

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. During the execution of this test case, the Edge Model 2 Voting System provided a voter with a review screen and allowed for the voter to return to either the beginning of the ballot or an individual contest to make changes to his or her selections before casting the ballot for both a standard voting session and an ADA voting session. The actual results obtained during execution met the expected results. *See* page 81 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude the Edge Model 2 Voting System meets the requirements of Section 3031.7(10) of the Pennsylvania Election Code.

# <u>Test Case Identifier: 16 – 1107-A(16), 25 P.S. § 3031.7(16) Public Counter, No Re-opening of Polls, Media Security with Tamper Proof Locks and Zero Proof and Tally Reports:</u>

This test case was designed to test for compliance with 25 P.S. § 3031.7(16), which requires that a DRE have a public counter, have the ability to lock after the polls are closed, provide for voter secrecy, prohibit over votes, and print zero proof and results reports. This test case verifies the display of a public counter. It also ensures that the device provides (a) a lock to prevent tabulation after the polls are closed and to prevent re-opening of the polls, (b) tamper evident locks and seals, and (c) zero proof and results reports.

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. During the execution of this test case the Edge Model 2 Voting System provided a public counter that incremented with each cast vote; provided the ability to be locked after the polls were closed; precluded the re-opening of the polls after the polls were closed; provided design features that allow tamper evident locks and seals to be placed on the device (*see* photographs in Section 4.4); and provided zero proof and results reports. The actual results obtained during execution met the expected results. *See* page 84 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude the Edge Model 2 Voting System meets the requirements of Section 3031.7(16) of the Pennsylvania Election Code.

# 4.3 System Integration Testing

System Integration Testing was performed to test proprietary hardware, software and peripherals, as well as COTS materials configured as a precinct count system. This test meets many of the requirements of the Election Code that were previously verified in the Targeted Functionality area of testing, but was designed to specifically meet the following sections and requirements:

- 25 P.S. § 3031.1, defining "electronic voting system" to be a "system in which one or more voting devices are used to permit the registering or recording of votes and in which such votes are computed and tabulated by automatic tabulating equipment. The system shall provide for a permanent physical record of each vote cast;"
- 25 P.S. § 3031.7(4), requiring that a DRE "permits each voter, at other than primary elections, to vote a ticket selected from the nominees of any and all political parties, from the nominees of any and all political bodies, and from any persons whose names are not in nomination and do not appear upon the official ballot;"
- 25 P.S. § 3031.7(6), requiring that a DRE "permits each voter to vote for as many persons for any office as he is entitled to vote for and to vote for or against any question upon which he is entitled to vote and precludes each voter from voting or from having his vote tabulated for any candidate, or upon any question, for whom or upon which he is not entitled to vote;"
- 25 P.S. § 3031.7(8), requiring that a DRE "precludes each voter from voting or from having his vote tabulated more than once for any candidate for the same office or upon any question, except in districts and for offices where cumulative voting is authorized by law;"
- 25 P.S. § 3031.7(9), requiring that a DRE "permits each voter at a primary election to vote only for the candidates seeking nomination by a political party in which such voter is registered and enrolled, and for any candidate for nonpartisan nomination, and for any question upon which he is entitled to vote;" and

• 25 P.S. § 3031.17, requiring that the "county board of elections, as part of the computation and canvass of returns, shall conduct a statistical recount of a random sample of ballots after each election using manual, mechanical or electronic devices of a type different than those used for the specific election. The sample shall include at least two (2) per centum of the votes cast or two thousand (2,000) votes whichever is the lesser."

Two election definitions, a general and closed primary election, were devised to test and measure specific input devices, voting patterns and results. Pre-voting reports were generated, consisting of a ballot proof report, precinct summary report, and election summary report. The polls were opened, and precinct tabulator zero proof reports were generated. The Examiner and Department of State staff members attempted to input a complex voting pattern consisting of distinct combinations of vote selection as documented in the Test Protocol (*See* Appendix A Election Definitions). The polls were closed, and results reports were generated including cast vote records and ballot images. The voted data was then transferred to the election management system (EMS), and election summary reports, precinct summary reports, and ballot images were printed. At the conclusion of the test, the Examiner conducted a statistical recount of at least 10% of the votes cast using the cast vote records and ballot images. The procedure identified each ballot by the distinct voting pattern that was input. The Examiner also generated a backup of the EMS database and retained a copy with the other test data.

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. The Edge Model 2 Voting System successfully completed both the general and closed primary election. The actual results obtained during execution met the expected results. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude the Edge Model 2 Voting System meets the requirements of Sections 3031.1 and 3031.17 of the Pennsylvania Election Code in that the system generated a permanent physical record in the format of the cast vote record and ballot images that were used to conduct a statistical recount. The Edge Model 2 Voting System also complies with Sections 3031.7(4) and (9) in that test voters in the primary election were only able to vote for their party and the system rejected attempts to vote for non-party candidates. The Edge Model 2 Voting System meets the requirements for Sections 3031.7(6) and (8) in that the test voters cast votes on different ballot styles for candidates and questions and the Edge Model 2 Voting System precluded test voters from over voting.

# 4.4 Penetration Analysis

A penetration analysis was performed to verify compliance with 25 P.S. § 3031.7(12), which requires that a DRE "provides acceptable ballot security procedures and impoundment of ballots to prevent tampering with or substitution of any ballots or ballot cards."

The precinct tabulation devices were configured for delivery to a polling place from a warehouse; this included all seals and locks recommended by the manufacturer. The Examiner inspected the device for the ability to tamper with the transportation case and the device inside the case. The inspection examined the ports, the outer case, and memory devices from the aspect of the device as delivered to the polling place and configured for voting. The Examiner also examined both the precinct device and the EMS for password management of administrative functions and ensured the system counter cannot be reset by unauthorized persons. The Examiner photographed the

configuration and analyzed the configuration for possible vulnerabilities. Photographs 1.1 through 1.3 indicate locks and seals on the precinct tabulation devices.



Photograph 1.1 Edge Model 2 transportation case



Photograph 1.2 lock on cover to open polls



Photograph 1.3 lock on results cartridge door

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. During the conducting of this analysis, the Edge Model 2 Voting System provided acceptable ballot security procedures and impoundment of ballots to prevent tampering with or substitution of any ballots or ballot cards. It also provided acceptable password management and restriction of access to administrative functions. Therefore, I conclude the Edge Model 2 Voting System meets the requirements of Section 3031.7(12) of the Pennsylvania Election Code.

# 5.0 CERTIFICATION FOR USE

The Edge Model 2 Voting System, certified for use in the Commonwealth of Pennsylvania and presented for re-examination, meets the requirements of Article XI-A of the Pennsylvania Election Code, sections 1101-A to 1122-A, 25 P.S. §§ 3031.1 – 3031.22. As the Examiner, I recommend the voting system documented in Section 2.0 of this report remain certified for use in the Commonwealth of Pennsylvania.

APPENDIX A – AS RUN TEST PROTOCOL



# COMMONWEALTH OF PENNSYLVANIA

# **TEST PROTOCOL**

# FOR

# **RE-EXAMINATION OF**

# **DOMINION VOTING SYSTEMS**

# AVC EDGE MODEL 2 DRE VOTING SYSTEM

# AND WINEDS 3.1.012

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## 1.0 INTRODUCTION

The primary purpose of the re-examination is to confirm that the Dominion Voting Systems Edge Model 2 DRE Voting System and WinEDS 3.1.012 meets the requirements of Article XI-A of the Pennsylvania Election Code, sections 1101-A to 1122-A, 25 P.S. §§ 3031.1 – 3031.22. This re-examination is being performed per the direction of the Secretary of the Commonwealth, acting through the Pennsylvania Department of State, Bureau of Commissions, Elections and Legislation. This re-examination will commence on March 5, 2012, at the following location:

Commonwealth Keystone Building Hearing Room 1 400 North Street Harrisburg, Pennsylvania

The daily duration of this re-examination will be from 9:00 A.M. until 5:00 P.M. Eastern Standard Time unless a representative of the Secretary of the Commonwealth requests an extension, suspension, or a halt in testing.

## 1.0 References

The documents listed below were used in the development of the Test Protocol.

- Article XI-A of the Pennsylvania Election Code, sections 1101-A to 1122-A, 25 P.S. §§ 3031.1 3031.22
- Federal Election Commission 2002 Voting Systems Standards
- Help America Vote Act (HAVA) of 2002, Public Law 107-252, 42 U.S.C. § 15301 et seq.

# 1.1 Terms and Abbreviation

This subsection lists terms and abbreviations relevant to this re-examination

"ADA" – Americans with Disabilities Act

"COTS" – Commercial Off-The-Shelf

"Department" – Pennsylvania Department of State

"DRE" – Direct Recording Electronic

"EAC" – Election Assistance Commission

"EMS" – Election Management System

"Examiner" – The examiner appointed by the Secretary of the Commonwealth to conduct the reexamination

"FEC" - Federal Election Commission

"ITA" – Independent Testing Authority

"PA" - The Commonwealth of Pennsylvania

"Pennsylvania Election Code" - Article XI-A of the Pennsylvania Election Code, sections 1101-A to 1122-A, 25 P.S. §§ 3031.1 – 3031.22

"Secretary" – The Secretary of the Commonwealth

"TDP" - Technical Data Package

"VSS" - Federal Election Commission 2002 Voting System Standards

"VVSG" - Election Assistance Commission 2005 Voluntary Voting System Guidelines

# 1.2 Background

The Dominion Voting Systems Edge Model 2 DRE Voting System and WinEDS 3.1.012 were certified for use in the Commonwealth of Pennsylvania on January 25, 2006 after an examination conducted pursuant to the Pennsylvania Election Code. The Dominion Edge 2 DRE Voting System and WinEDS 3.1.012 have been in use by Pennsylvania counties since their initial certification. Pursuant to section 1105-A of the Pennsylvania Election Code, 25 P.S. § 3031.5, a group of Pennsylvania voters formally requested that the Secretary conduct a re-examination of the Dominion Edge 2 DRE Voting System. The Secretary granted the request.

The Test Protocol was developed to ascertain whether the certified electronic voting system complies with the requirements set forth in the Pennsylvania Election Code.

# 2.0 TEST ITEMS

This section contains detailed descriptions of the items tested during the re-examination, including all software, hardware, and peripherals, both proprietary and COTS, and any test support equipment or materials necessary for test performance.

# 2.1 Software

This subsection contains a listing of the software and firmware being evaluated.

# Table 2.1 Software

Component Name	Version	Unique Identifier (digital signature or hash value)
AVC Edge Firmware	5.0.24	TBD
WinEDS	3.1.012	TBD

## 2.2 Hardware

This subsection contains a listing of the hardware being evaluated.

Component Name	Model Number	Revision Number	Description
AVC Edge Model 2 DRE Voting System	AVC Edge 2	N/A	A DRE Voting device which uses color LCD with an integrated touchscreen, a control panel for use by election poll workers, electronic circuitry and processing devise, internal memory for storing ballot data and voting records, a removable results cartridge, protective and public counters, and integrated voter privacy panels.
Card Activator			

## Table 2.2 Hardware

## 2.3 **Peripherals**

This subsection contains detailed descriptions of optional equipment used by the system being evaluated.

## **Table 2.3 Peripherals**

Part Name	Model Number	Revision Number	Description
PCMCIA Cards	TBD	TBD	TBD
Desktop Printer	TBD	TBD	COTS Printer to print EMS reports

# 2.4 Test Support Equipment/Materials

This subsection contains detailed descriptions of the test support equipment and materials needed to perform the required testing.

The Examiner will provide a tape measure (to be used in Test Case 1), Test Execution Logs, and a digital camera for test documentation. The re-examination will be video recorded by the Department.

The voting system manufacturer must provide an EMS system currently certified for use in Pennsylvania loaded with the closed primary and general-election definitions (Appendix A). These election definitions are the ballot configurations that will be used throughout the re-examination. The manufacturer is responsible for providing the Department and the Examiner with technical staff to support the re-examination. The manufacturer must provide three precinct-tabulation devices for each voting system being examined. The manufacturer must be prepared to load the firmware for each precinct tabulation devices as they would be in the precinct on Election Day, including seals and locks. The manufacturer must be prepared to print pre-election reports, precinct results reports, audit logs, and post-election reports.

## 3.0 TEST MATERIALS

This section contains a detailed description of all materials made available to Examiner for the reexamination.

# 3.1 Technical Data Package

This subsection lists all manufacturer provided documentation that is relevant to the system being tested.

Document	Part	Version	Issue Date
Name	Number		
AVC Edge Audio Accessory Rev C Poll	096116601	1.00	October 2005
Worker's/Operator's Manual for AVC Edge Release 5.0	090110001	1.00	October 2003
AVC Edge Change Summary Release 5.021	096051903	1.00	12/29/05
AVC Edge Data Dictionary Release 5.0	096050701		10/17/05
AVC Edge Functional Specification Release 5.0	096050501	1.02	2005
AVC Edge System Maintenance Manual	096051001	1.03	5/3/05
AVC Edge Operator's Manual Release 5.0	096050901	1.06	5/12/06
Sequoia Voting Systems AVC Edge Test & Verification	096051202	1.01	October 2005
1)Firmware Release 5.0.19, 2)Audio Box Rev C	090031202	1.01	October 2003
WinEDS Technical Data Package Release 3.1	089351511	1.09	June 2006
WinEDS System Overview Release 3.1	089350011	1.13	May 2006
WinEDS Functional Specification Release 3.1	089350111	1.11	May 2006
WinEDS Software Specification Release 3.1	089350211	1.09	February 2006
WinEDS Security Specification Release 3.1	089350311	1.04	January 2006
WinEDS Penetration Analysis (Appendix B to Security	089350311	1.04	January 2006
Specification) Release 3.1			-
Noted 'Available Only By Special Request'			
WinEDS Test & Verification Specification	096051201	1.04	June 2007
WinEDS Operators Manual Release 3.1	089352111	1.03	January 2006
WinEDS Personnel & Training Requirements Release	089350511	1.04	January 2006
3.1			-
WinEDS Configuration Management Plan Release 3.1	089350611	1.06	February 2006
WinEDS Quality Assurance Program Release 3.1	089351911	1.04	January 2006
WinEDS Sample Reports Release 3.1	089352011	2.07	June 2006
WinEDS Installation Guide Software Release 3.1	none	1.00	February 2006
WinEDS Reference Guide Software Release 3.1	none	6.05	May 2006
WinEDS Change Release Summary Release 3.1	089352411	1.04	January 2006
WinEDS SDK: For Optech 400-C Release 3.1	089351111	1.04	January 2006
WinEDS SDK: For Insight and Eagle Release 3.1	089352311	1.01	January 2006
WinEDS Specification Diagrams Release 3.1	089351611	1.05	February 2006
WinEDS System Database Release 3.1	08935121	1.14	May 2006
WinEDS 3.1 FEC VSS 2002 Trace Matrix	092002-01	04	None-e-file
			date 9/12/2006
Tally Validation TDP supplement	None	None	None: e-file
			date 9/12/2006

## **Table 3.1 Documentation**

# 3.2 Third Party Test Reports

This subsection lists the reports provided by third party entities that are relevant to the system being evaluated and the test engagement.

Report Title	Description	Report No.	Issue Date
Hardware Qualification Testing of the Edge Models I & II DRE Voting Machines, VeriVote Printer, Card Activator, and ADA Audio Adapter Peripherals (Firmware Version 5.0.14)	Wyle Laboratories Hardware Qualification Test Report.	51884-03	March 16, 2006
Change Release Report of the Edge Model I & II DRE Voting Machines, VeriVote Printer, Card Activator, and ADA Audio Adapter Peripherals (Firmware Version 5.0.21)	Wyle Laboratories Hardware Functional Test Report.	51884-04	March 16, 2006
Change Release Report of the Edge Models I & II DRE Voting Machines with VeriVote Printer (Firmware Version 5.0.22)	Wyle Laboratories Hardware Functional Test Report.	51884-05	March 16, 2006
Change Release Report of the Edge Models I & II DRE Voting Machines with VeriVote Printer (Firmware Version 5.0.23)	Wyle Laboratories Hardware Functional Test Report.	51884-06	March 16, 2006
Change Release Report of the Edge Models I & II DRE Voting Machines with VeriVote Printer (Firmware Version 5.0.24)	Wyle Laboratories Hardware Functional Test Report.	51884-07	March 16, 2006

# Table 3.2 Third Party Test Reports

# 3.3 **Previous Test Results**

This subsection describes the results of any previous testing performed by the Department that are relevant to the re-examination and the system being evaluated.

# Table 3.3 Previous Test Results

Report Title	Report Title Description			
Sequoia Voting Systems Edge 2 DRE Voting System and WinEDS Election Database System	An Evaluation prepared for the Secretary of the Commonwealth of Pennsylvania by Michael Ian Shamos, Ph.D, J.D		October 2005	
Sequoia Voting Systems Edge 2 DRE Voting System, Version 5.0.21	An Evaluation prepared for the Secretary of the Commonwealth of Pennsylvania by Michael Ian Shamos, Ph.D, J.D		January 2006	

Commonwealth of Pennsylvania	
Department of State Examination	Results of Examination
Results of Sequoia's AVC Edge 2	Results of Examination
Electronic Voting System	

# 4.0 TEST SPECIFICATIONS

This section contains a detailed description of the procedures to be followed during test setup and preparation.

The re-examination of the voting system will occur in an environmentally controlled room. The room will be configured such that the Department, the Examiner, and the voting system manufacturer have their own independent work areas. The public will be allowed to observe the examination, but may not comment or interact with either the employees of the Department, the Examiner, or the voting system manufacturer, at any time. The manufacturer will be allotted time and space to stage the voting system prior to the re-examination. This time and space will be determined between the Department and the manufacturer in advance of the examination date. Once the manufacturer informs the Department that the voting system is properly set up, the Examiner will provide the manufacturer with the firmware/software for the precinct tabulation device, submitted to the Department from the trusted source. The manufacturer will load the firmware/software on to the required media for installation onto the precinct tabulation device and install the firmware/software onto the precinct tabulation device before commencement of the re-examination. Once each precinct tabulation device is loaded with the firmware/software, the manufacturer will not be allowed access to the internal components of the devices without the consent of the Department or the Examiner. If the re-examination is suspended, the precinct tabulation devices will be secured in a manner to ensure control of the test environment. If, at any point, the Department or the Examiner determines that the control of the test environment has been compromised, all firmware/software will be reloaded on the precinct tabulation devices.

The voting system manufacturer shall set up the precinct tabulation devices as they would be in the precinct on Election Day, minus the locks and seals. The locks and seals will be installed and evaluated at a later time in the re-examination.

The Examiner will maintain photographic and written documentation of the re-examination. This will include, but is not limited to, photographs of the firmware/software installation, test execution notes and observations, photographs of the test setup, and collection of test data. The Department will video record the re-examination.

# 5.0 TEST PROCEDURES

#### This section contains a detailed description of the test sequence, test procedures and expected results.

The test cases for this re-examination are contained in Appendix B of this Test Protocol. All steps of the tests cases contain an expected result to provide objective pass/fail criteria. There are no dependencies for execution of the test cases. The test cases have been divided into four main areas for execution: (1) Review; (2) Targeted Functionality; (3) System Integration; and (4) Penetration Analysis. -The Review area of this re-examination will not be performed on-site during the set dates of the re-examination. The Review area of testing includes documentation review of third-party reports and review of the

manufacturer's TDP. All other areas of testing will be performed on-site during the re-examination. The test sequence for this re-examination will be as follows:

# **Review:**

- 1107-A(11), 25 P.S. § 3031.7(11) Suitably Designed, Constructed in Workmanlike Manner of Durable Material, Safely and Efficiently Useable, Capable of Absolute Accuracy
- 1107-A(13), 25 P.S. § 3031.7(13) Record Correctly, Computes and Tabulates Accurately
- 1107-A(14), 25 P.S. § 3031.7(14) Safely Transportable
- 1107-A(15), 25 P.S. § 3031.7(15) Voter May Readily Learn to Operate

# **Targeted Functionality Test Cases:**

- Test Case Identifier: 01 1107-A(1), 25 P.S. § 3031.7(1) Voter Secrecy (Regular Voter)
- Test Case Identifier: 01 1107-A(1), 25 P.S. § 3031.7(1) Voter Secrecy (ADA Voter)
- Test Case Identifier: 02 1107-A(2), 25 P.S. § 3031.7(2) Selection of Candidates and Questions by Voter (Regular/ADA)
- Test Case Identifier: 03 1107-A(3), 25 P.S. § 3031.7(3) Straight Party and Pennsylvania Method
- Test Case Identifier: 04 1107-A(4), 25 P.S. § 3031.7(4) Straight Party and Write-In
- Test Case Identifier: 05 1107-A(5), 25 P.S. § 3031.7(5) Selection of Candidate and Write-in
- Test Case Identifier: 07 1107-A(7), 25 P.S. § 3031.7(7) Attempt to Over Vote Contests and Questions (Regular/ADA)
- Test Case Identifier: 10 1107-A(10), 25 P.S. § 3031.7(10) Ballot Review and Change (Regular/ADA)
- Test Case Identifier: 16 1107-A(16), 25 P.S. § 3031.7(16) Public Counter, No Reopening of Polls, Media Security with Tamper Proof Locks and Zero Proof and Tally Reports

# System Integration Test Cases:

Test Case Identifier: 04, 06, 08, 09, Permanent Physical Record, and Statistical Sample – 1107-A(4), 25 P.S. § 3031.7(4) Enables Voting for Legal Combinations; 1107-A(6), 25 P.S. § 3031.7(6) Permits Voting for as Many Candidates as Entitled, Permits Voting For or Against Questions, Precludes Voting for Unauthorized Candidates or Questions; 1107-A(8), 25 P.S. § 3031.7(8) Precludes Multiple Voting and Tabulating Multiple Votes; 1107-A(9), 25 P.S. § 3031.7(9) Permits Voter at Primary to Vote Only for Candidates in Party of Registration, Any Candidate for Nonpartisan Nomination, and For Any Entitled Question; 1101-A, 25 P.S. § 3031.1 Provides for Permanent Physical Record of Each Vote Cast; and 1117-A, 25 P.S. § 3031.17

# **Penetration Analysis Test Cases:**

• Test Case Identifier: 12 – 1107-A(12), 25 P.S. § 3031.7(12) Acceptable Ballot Security Procedures and Impoundment of Ballots

## 6.0 TEST DATA

This section contains a detailed description of the test election definitions and ballot logic being exercised.

The election definitions being used for this re-examination are provided in Appendix A of this Test Protocol. A predefined set of election parameters are included in the election definitions. Both the general election and the closed primary election definitions provide the voting variations, geographic subdivisions, parties, supported languages and test voting pattern with results being tested. The only languages required for this re-examination are English and Spanish. The Department provided the Spanish translation. Each test voting pattern provides the input method and device. For all Write-In selections, the name will be input as "John Doe." For multiple Write-In selections, the name will be appended with the character "I" for the number of Write-In selections (*i.e.*, "John Doe I," "John Doe II," "John Doe III," and "John Doe IIII" in a "Vote for Four" contest with four write-ins).

## 6.1 Data Recording

This subsection contains a detailed description of the procedures to be followed during test execution and data collection.

All test data produced during this re-examination is the property of the Department. The output test data will be collected and stored in an appropriate manner as to allow for data analysis. Actual results from executed tests will be recorded in real-time in Test Execution Logs.

#### 6.2 Data Evaluation

The Examiner will evaluate all test results against the expected results set forth in the test cases provided in Appendix B. The acceptable range for system performance and the expected results is derived from the test designers experience and expertise. If an expected result is not achieved, an evaluation will be performed as to "why" the test or test step did not produce the expected results. This evaluation will consider test error, invalid expectations, and system performance. Failure to achieve the expected results does not constitute a test failure. A test failure only occurs when the "Criteria for Evaluation of Test Results," as set forth in the test cases, are not achieved for a specific test.

# **APPENDIX** A

# **ELECTION DEFINITIONS**

## **Election Definition: Pennsylvania Certification Closed Primary Election**

#### **Primary Election Description:**

A closed primary election for 2 parties in 3 precincts. This election contains 35 contests compiled into 6 ballot styles. Each ballot style contains 15 contests. The voting variations supported in a primary election by the Commonwealth of Pennsylvania are defined in this election. The voting variations are as follows:

- Partisan contest
- Non-Partisan
- Primary Presidential delegation nominations
- Write-In voting
- N of M Contest
- Cross-Party Filed Candidates

This closed primary election was designed to functionally test the handling of multiple ballot styles across geographical subdivisions, support for two languages, and support for common primary specific voting variations.

# **Configuration:**

#### EMS computer loaded with software certified for use in Pennsylvania to create the following configuration:

Name: Pennsylvania Certification Closed Primary Election Voting Devices: 1 machine for each precinct Precincts: Precinct 1, Precinct 2, Precinct 3 Parties: Republican, Democrat Languages: English, Spanish Totals Contests: 35 Contests as follows:

Precinct 1 REP	Precinct 2 REP	Precinct 3 REP	Precinct 1 DEM	Precinct 2 DEM	Precinct 3 DEM	
President of the United States Vote for One			President of the United States Vote for One			
James Collins			Barry Josey			
Alexander P. Bicket			Calvin Marino			
Carol Koethen			Write-In			
Write-In						
United States Senator Vote for One			United States Senator Vote for One			
Bob Ford Allegheny	County		Oscar Draper Cumberland County			
Colby Lincoln Delaware County			Carter McGaw Philadelphia County			
Write-In			Write-In			
5 <sup>th</sup>	<b>tive in Congress District</b> e for One	Representative in Congress 10 <sup>th</sup> District Vote for One	n Representative in Congress Representative 5 <sup>th</sup> District Congress Vote for One 10 <sup>th</sup> District Vote for One Vote for One			
Ben Baker Allegheny	County	Cheryl Simon	Barbara Barret Hicks Montgomer	y County	William Sullivan	

	York County		Butler County		
Write-In		Clinton Testo			
	Lois Koss Erie County	Centre County	Write-In		
		Write-In			
Governor	Write-In	Governor			
Vote for One		Vote for One			
Dean Lindsey		Charles Jasen			
Allegheny County		Montgomery County			
Don Etter Allegheny County		Shirley Henning Luzerne County			
Joe Carlton Washington County		Write-In			
Edwin Lewis Lancaster County					
Samuel Lawton Bucks County					
Write-In					
Lieutenant Governor Vote for One		Lieutenant Governor Vote for One			
Scott Montes Berks County		Sherman R. Bucher Philadelphia County			
Saul Currier Lehigh County		Richard V. Suits Cambria County			
Arnold Krill Lycoming County		Tabathia Song Allegheny County			
Write-In		Kenneth Interlicchio Philadelphia County			
		Write-In			
Representative in the General Assembly 83 <sup>rd</sup> District Vote for One	Representative in the General Assembly 84 <sup>th</sup> District Vote for One	Representative in the General Assembly 83 <sup>rd</sup> District Vote for One	Representative in the General Assembly 84 <sup>th</sup> District Vote for One		
Harry Rider Cascade	Peter Valle <i>Muncy</i>	R. J. Abbott Shrewsbury	Neil Carey <i>Lewis</i>		
Robert Tyrell <i>McNett</i>	Write-In	Peter F. Saxton Willamsport	Saul Currier <i>Eldred</i>		
Write-In		Write-In	Write-In		
Delegate to the National Convention –5 <sup>th</sup> District Vote for Not More Than Three		Delegate to the National Convention Electing 2 Males and 2 Fema Vote Not More Than Fou	ales		
Gloria Dillion Heather Heidelbaugh Herbert Devine		Vincent Seymour (M) Committed to Barry Josey			
George A. Fisk Doris Shiddles Andre Ninia		Toni Hamilton (F) Committed to Calvin Marino			
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza		Sam Patel (M) Committed to Barry Josey			

Write-In	Robert Rocco (M) Committed to Calvin Marino
Write-In Write-In	Renee Cohn Jubelrier (F) Committed to Calvin Marino
	Morton Steele (M) Committed to Calvin Marino
	Mary Burke (F) Committed to Barry Josey
	Nyda E. Hambin (F) Committed to Barry Josey
	Write-In Write-In
	Write-In Write-In
Judge of the Superior Court Vote for One	Judge of the Superior Court Vote for One
Richard Maxian Philadelphia County	Linda Gapp Cumberland County
Marjorie Hall Delaware County	Patricia Smallmon Allegheny County
Robert L. Linkey Bucks County	Write-In
Write-In	
Judge of the Commonwealth Court Vote for One	Judge of the Commonwealth Court Vote for One
Chris Carpenter Montgomery County	Eugene Ruff Washington County
Write-In	Lewis Tese Luzerne County
	Write-In
Judge of the Court of Common Pleas Vote for Not More Than Two	Judge of the Court of Common Pleas Vote for Not More Than Two
Mary L. Daniel Armstrong	Joanne Shollzert Williamsport
John Roy Clinton	Kerry Jones Williamsport
Jack "Duke" Brodisky <i>McNett</i>	Steven Miller Lewis
Jon Young Muncy	Shirley Henning Mill Creek
Vic Stabile Gamble	Write-In
Write-In	Write-In
Write-In	
County Chief Executive Four Year Term	County Chief Executive Four Year Term
Vote for One	Vote for One

Norman Powers Williamspo	ort		Micheal Santarcangelo Fairfield			
Sandra Reilly <i>McNett</i>			Charles Place Gamble			
Write-In			Write-In			
School Director Region 6 Four Year Term Vote for Not More Than Two			School Director Region 6 Four Year Term Vote for Not More Than Two			
Gerald Danson			Douglas Stone			
Greg Ortiz			Gerald Danson			
Shlomo Archibald			Greg Ortiz			
Delores DeVan			Shlomo Archibald			
Write-In			Delores DeVan			
Write-In			Write-In			
			Write-In			
Commissioner	Commissioner	Commissioner	Commissioner	Commissioner	Commissioner	
<b>Seat 1</b> Four Year Term Vote for One	Seat 2 Four Year Term Vote for One	<b>Seat 3</b> Four Year Term Vote for One	Seat 1 Four Year Term Vote for One	Seat 2 Four Year Term Vote for One	Seat 3 Four Year Term Vote for One	
Stephen Harrick	Steve West	William Malicki	George Fisk	Tetty Rogiers	Arnold Wells	
Write-In	Write-In	Gary Klemann	Write-In	Write-In	Write-In	
		Write-In	A			
			rendum A nd Issue			
section two of chapte	sure the preservation and er one hundred eighteen of ion dollars for capital facilit	the laws of nineteen hu	al rail passenger and fre ndred seventy-four, auth	ight services to the inhat orizing the creation of a st	bitants of the state, shall ate debt in the amount of	
Yes						
No						
Spanish						
Distrito electoral 1 REP	Distrito electoral 2 REP	Distrito electoral 3 REP	Distrito electoral 1 DEM	Distrito electoral 2 DEM	Distrito electoral 3 DEM	
Pre	sidente de los Estados U Vote por uno	nidos	Pres	sidente de los Estados U Vote por uno	Inidos	
	·					
James Collins			Barry Josey			
Alexander P. Bicket			Calvin Marino			
Carol Koethen			Por escrito			
Por escrito						

Senador de los Estados Un Vote por uno	nidos	Senador de los Estados Ur Vote por uno	nidos	
Bob Ford Condado de Allegheny Colby Lincoln Condado de Delaware Por escrito		Oscar Draper Condado de Cumberland Carter McGaw Condado de Filadelfia Por escrito		
Representante en el Congreso       Representante en el Congreso         5° Distrito       el Congreso         Vote por uno       10° Distrito         Ben Baker       Vote por uno         Condado de Allegheny       Cheryl Simon         Por escrito       York         Lois Koss       Condado de         Erie       Por escrito		Representante en el Congreso         5° Distrito         Vote por uno         Barbara Barret Hicks         Condado de Montgomery         Clinton Testo         Condado Centre         Por escrito         Gobernador         Vote por uno	Representante en el Congreso 10.º Distrito Vote por unoWilliam Sullivan Condado de ButlerPor escrito	
Vote por uno Dean Lindsey <i>Condado de Allegheny</i> Don Etter <i>Condado de Allegheny</i> Joe Carlton <i>Condado de Washington</i> Edwin Lewis <i>Condado de Lancaster</i> Samuel Lawton <i>Condado de Bucks.</i> Por escrito		Charles Jasen Condado de Montgomery Shirley Henning Condado de Luzerne Por escrito		
Vicegobergador Vote por uno Scott Montes <i>Condado de Berks</i> Saul Currier <i>Condado de Lehigh</i> Arnold Krill <i>Condado de Lycoming</i> Por escrito		Vicegobergador Vote por uno Sherman R. Bucher <i>Condado de Filadelfia</i> Richard V. Suits <i>Condado de Cambria</i> Tabathia Song <i>Condado de Allegheny</i> Kenneth Interlicchio <i>Condado de Filadelfia</i> Por escrito		
Representante en la Asamblea General 83.º Distrito Vote por uno	Representante en la Asamblea General 84.° Distrito Vote por uno	Representante en la Asamblea General 83.° Distrito Vote por uno	Representante en la Asamblea General 84.º Distrito Vote por uno Neil Carey	

Mary L. Daniel		Joanne Shollzert				
Juez de la corte de primeras ir Vote por no más de dos		Juez de la corte de primeras No vote por más de d	instancias <sup>OS</sup>			
		Write-In				
Write-In		Lewis Tese Condado de Luzerne				
Chris Carpenter Condado de Montgomery		Eugene Ruff Condado de Washington				
Juez de la corte del estado Vote por uno		Juez de la corte del es Vote por uno	1200			
	do	luoz de la corte del co	tado			
Condado de Bucks. Write-In						
Robert L. Linkey		Write-In				
Marjorie Hall <i>Condado de Delaware</i>		Patricia Smallmon Condado de Allegheny				
Richard Maxian Condado de Filadelfia		Linda Gapp Condado de Cumberland				
Juez de la corte supren Vote por uno	Ia	Juez de la corte suprema Vote por uno				
		(M) Committed to Barry Josey Write-In Write-In Write-In Write-In				
		Mary Burke ( <i>M</i> ) Committed to Barry Josey Nyda E. Hambin				
		Morton Steele (H) Committed to Calvin Marino				
Write-In		Renee Cohn Jubelrier (M) Committed to Calvin Marino				
Write-In Write-In		Robert Rocco (H) Committed to Calvin Marino				
Diane Rubin Elizabeth Piazza		(H) Committed to Barry Josey				
Andre Ninia Brian Getz Chad Snow		(M) Committed to Calvin Marino				
Herbert Devine George A. Fisk Doris Shiddles		(H) Committed to Barry Josey Toni Hamilton				
Gloria Dillion Heather Heidelbaugh		No vote por más de cua Vincent Seymour				
Delegado a la convención naciona No vote por no más de tr		Delegado a la convención nacional – 5.º Distrito Elija 2 damas y 2 caballeros				
Por escrito		Por escrito				
Robert Tyrell <i>McNett</i>	Por escrito	Peter F. Saxton Willamsport	Eldred Por escrito			
Cascade	Muncy	Shrewsbury	Saul Currier			

Armstrong			Williamsport				
John Roy <i>Clinton</i>			Kerry Jones Williamsport				
Jack "Duke" Brodisky McNett			Steven Miller Lewis				
Jon Young <i>Muncy</i>			Shirley Henning <i>Mill Creek</i>				
Vic Stabile			Por escrito				
Gamble			Por escrito				
Por escrito							
Por escrito		1-			1-		
<b>Jefe principal del condado</b> Término de cuatro años Vote por uno				Jefe principal del condac Término de cuatro años Vote por uno			
Norman Powers Williamspol	rt		Micheal Santarcangelo Fairfield				
Sandra Reilly <i>McNett</i>			Charles Place Gamble				
Por escrito			Por escrito				
Director de la escuela Región 6 Término de cuatro años No vote por más de dos			Director de la escuela Región 6 Término de cuatro años No vote por más de dos				
Gerald Danson			Douglas Stone				
Greg Ortiz			Gerald Danson				
Shlomo Archibald			Greg Ortiz				
Delores DeVan			Shlomo Archibald				
Por escrito			Delores DeVan				
Por escrito			Por escrito				
			Por escrito				
Comisionado Puesto 1 Término de cuatro	Comisionado Puesto 2 Término de cuatro	Comisionado Puesto 3 Término de cuatro	Comisionado Puesto 1 Término de cuatro	Comisionado Puesto 2 Término de cuatro	Comisionado Puesto 3 Término de cuatro		
años Vote por uno	años Vote por uno	años Vote por uno	años Vote por uno	años Vote por uno	años Vote por uno		
Stephen Harrick	Steve West	William Malicki	George Fisk	Tetty Rogiers	Arnold Wells		
Por escrito	Por escrito	Gary Klemann	Por escrito Por escrito Por escrito				
		Por escrito					
		Referéndun	n a nivel estatal				
		Asunte	o del bono				
Para promover y ase	gurar la preservación y m ión dos del capítulo cient	ejoramiento del pasajer	o férreo esencial y servio	cios de carga para los ha	bitantes del estado, ¿se		
	de doscientos cincuenta r						

Sí										
51										
No										
INO										
Voting Pattern:										
8										
Precinct 1 REP	В	В	В	В	В	В	В	В	В	В
	1	2	3	4	5	6	7	8	9	10
James Collins	Х			President of	the United S	tates X		Х		X
Alexander P.	^				^	^		^		^
Bicket		Х					Х			
Carol Koethen			Х						Х	
Write-In				X	1 - 1					
Bob Ford			Х	United S	tates Senato	or	Х		Х	1
Colby Lincoln	Х	Х	^	Х	Х		^	Х	^	Х
Write-In		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Х		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
			Rep	resentative ir	n Congress 5	5 <sup>th</sup> District				
Ben Baker	Х	Х	Х	Х	U		Х	Х	Х	Х
Write-In						Х				
		I	T		overnor	T	1	T	T	
Dean Lindsey				Х	V		Х			
Don Etter Joe Carlton	Х		Х		Х	v			Х	Х
Edwin Lewis	^	Х				Х			^	^
Samuel Lawton		~						Х		
Write-In										
				Lieutena	ant Governo	r				
Scott Montes					Х					Х
Saul Currier Arnold Krill	V		Х	Х		Х	Х	Х	Х	-
Write-In	Х	Х	^			^	^	^		-
		~	Representa	ative in the G	eneral Asser	nbly 83 <sup>rd</sup> Dis	strict			1
Harry Rider	Х	Х		Х		Х		Х	Х	
Robert Tyrell			Х				Х			Х
Write-In					X\	le metien				
Gloria Dillion	Х	Х	Pro	esidential No X	mination De			Х	Х	X
Heather	Λ			Χ	~	Λ		Λ	Χ	
Heidelbaugh		Х			Х					Х
Herbert Devine		Х	Х	Х			Х	Х	Х	Х
George A. Fisk	Х		V		Х		ļ		V	
Doris Shiddles Andre Ninia			Х					Х	Х	
Brian Getz	Х	+	Х	Х	-		1	^	-	
Chad Snow	~						Х			
Diane Rubin							X			
Elizabeth Piazza					Х					
Write-In						X				
Write-In Write-In						Х				
vv/IIC-II1		<u> </u>	I	Judae of the	e Superior C	ourt	1		I	1
Richard Maxian					X		Х		U	
Marjorie Hall		Х				Х				
Robert L. Linkey	Х		V	Х				Х		Х
Write-In			X	dge of the Co						
Chris Carpenter	Х	X	Ju X	Age of the Co	X X	U U	X	Х	Х	X
Write-In	~	^	^	^	^		^	^	^	^
			Juc	Ige of the Co	urt of Comm	on Pleas	1	1	L	
Mary L. Daniel	Х	Х		Х		Х		Х	Х	Х
John Roy		Х						U		

Jack "Duke"	Х		Х	Х	Х		Х		Х	х
Brodisky	^			^	^		^		^	^
Jon Young			Х				U			
Vic Stabile					Х					
Write-In						Х				
Write-In										
				County Ch	ief Executiv	'e				
Norman Powers	Х		Х	X		X	Х	Х		Х
Sandra Reilly	7	Х		~	Х	~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	Х	~~~~
Write-In		~			Χ.				X	
White in				School Dire	ector Region	6				
Gerald Danson	Х		Х	X	Jotor Region	X		Х		
Greg Ortiz	X		~	~	Х	Λ	Х	Χ		Х
Shlomo Archibald	Λ	Х	Х	Х	X		X X	Х	Х	X
Delores DeVan		X		^	^	Х	^	^	Х	^
		^				^			^	
Write-In										
Write-In			ι	L I						
<b>.</b>					ioner Seat 1					
Stephen Harrick	U	Х	Х	Х	Х		Х	Х	Х	Х
Write-In			ı			Х				
					endum A					
Yes	U		Х	Х	Х		Х	Х		Х
No		Х				Х			Х	
Precinct 1 DEM	В	В	В	В	В	В	В	В	В	В
	1	2	3	4	5	6	7	8	9	10
			F	resident of t	he United St	tates				
Barry Josey	Х	U				Х				
Calvin Marino			Х	Х	Х			Х	Х	Х
Write-In							Х			
				United Sta	ates Senato	r				
Oscar Draper	Х		Х	Х	Х	Х		Х		Х
Carter McGaw		Х					Х		Х	
Write-In		~					Х		Λ	
WIIIC-III			Bonr	esentative in	Congress 5	th District				
Barbara Barret			Repre	semarive m	Congress 5	DISTLICT				
	Х	Х	Х		Х		Х		Х	
Hicks				X				V		V
Clinton Testo				Х		X		Х		Х
Write-In			ι			Х				
<u> </u>		1								
Charles Jasen	Х				vernor					
Shirley Henning			Х	X	X X		Х			
		Х	Х		ſ	Х	Х	Х	Х	
Write-In		X	Х	Х	X		Х	Х	Х	X
		X	X	Х	ſ		Х	Х	Х	X
Sherman R.		X	X	X Lieutena	X		X	Х	Х	X
Sherman R. Bucher		X		Х	X			X	X	X
Sherman R. Bucher Richard V. Suits		X	X	X Lieutena	X		X  X	X	X	X
Sherman R. Bucher	X	X	X	X Lieutena	X			X	X	X
Sherman R. Bucher Richard V. Suits	X			X Lieutena	X nt Governor					X
Sherman R. Bucher Richard V. Suits Tabathia Song	X	x	X	X Lieutena	X			X		X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio	X	×	X	X Lieutena X	X nt Governor X	X	X			
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth	X	×	X	X Lieutena X	X nt Governor X	X	X			X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In		X	X	X Lieutena X ive in the Ge	X nt Governor X	X 1bly 83 <sup>rd</sup> Dis	X	X		X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In R. J. Abbott	X	×	X	X Lieutena X	X nt Governor X neral Assem	X	X		X	
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton		X	X	X Lieutena X ive in the Ge	X nt Governor X	X 1bly 83 <sup>rd</sup> Dis	X	X		X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In R. J. Abbott		X	X Representat	X Lieutenar X ive in the Ge	X nt Governor X neral Assem	X nbly 83 <sup>rd</sup> Dis X	X	X	X	X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In		X	X Representat X Pre:	X Lieutena X ive in the Ge	X nt Governor X neral Assem X nination Delo	X nbly 83 <sup>rd</sup> Dis X	x trict	X	X	X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour	X	X	X Representat X Pre:	X Lieutenau X ive in the Ge X sidential Non	X nt Governor X neral Assem	X nbly 83 <sup>rd</sup> Dis X egation	X	X X	X	X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton		X	X Representat X Pre: U U	X Lieutenar X ive in the Ge	X nt Governor X neral Assem X nination Del X	X nbly 83 <sup>rd</sup> Dis X	x trict X X	X	X	X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton Sam Patel	X X		X Representat X U U U U	X Lieutenau X ive in the Ge X sidential Non	X nt Governor X neral Assen X nination Del X	X nbly 83 <sup>rd</sup> Dis X egation X	x trict	X X X	X	X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton Sam Patel Robert Rocco	X	X	X Representat X Pre: U U	X Lieutenau X ive in the Ge X sidential Non	X nt Governor X neral Assem X nination Del X	X nbly 83 <sup>rd</sup> Dis X egation	x trict X X	X X	X	X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton Sam Patel Robert Rocco Renee Cohn	X X X	X X X X X	X Representat X U U U U	X Lieutenar X ive in the Ge X sidential Non X	X nt Governor X neral Assem X nination Delo X U	X nbly 83 <sup>rd</sup> Dis X egation X X	x trict X X	X X X X X X	X	X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton Sam Patel Robert Rocco Renee Cohn Jubelrier	X X X X X	X X X X X X X	X Representat X U U U U	X Lieutenau X ive in the Ge X sidential Non X X X X	X nt Governor X neral Assen X nination Del X	X nbly 83 <sup>rd</sup> Dis X egation X X X	x trict X X	X X X X X X X	X	X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton Sam Patel Robert Rocco Renee Cohn Jubelrier Morton Steele	X X X	X X X X X	X Representat X U U U U	X Lieutenar X ive in the Ge X sidential Non X	X nt Governor X neral Assem X nination Delo X U	X nbly 83 <sup>rd</sup> Dis X egation X X	trict X X X X X X	X X X X X X	X X X X X	X
Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton Sam Patel Robert Rocco Renee Cohn Jubelrier	X X X X X	X X X X X X X	X Representat X U U U U	X Lieutenau X ive in the Ge X sidential Non X X X X	X nt Governor X neral Assem X nination Delo X U	X nbly 83 <sup>rd</sup> Dis X egation X X X	x trict X X	X X X X X X X	X	X

Write-In										
									Х	Х
Write-In										Х
Write-In										Х
Write-In										Х
		1		Judge of the	Superior C	ourt				1
Linda Gapp				Х				Х		
Patricia Smallmon	Х	Х	Х		Х	Х			Х	Х
Write-In							Х			
				dge of the Co	mmonwealt	1				•
Eugene Ruff			Х	Х		Х	Х	Х	Х	
Lewis Tese	Х	Х			Х					Х
Write-In										
				ge of the Cou						•
Joanne Shollzert	Х		Х	Х	Х	Х		Х		Х
Kerry Jones	Х	Х		Х	Х		Х	Х	Х	
Steven Miller		Х				Х			Х	
Shirley Henning			Х				Х			
Write-In										Х
Write-In										
				County Ch	ief Executiv	ve				•
Micheal	Х		Х	х	Х		Х	х	х	
Santarcangelo			~~		~		~		~	
Charles Place		Х				Х		ļ		Х
Write-In										
<u> </u>				School Dire	ector Regio	nő		1		1
Douglas Stone		Х		X		ļļ	.,		X	
Gerald Danson	Х		Х	Х			Х	Х	Х	X
Greg Ortiz		Х			Х			ļ		Х
Shlomo Archibald	Х		Х		Х	X	Х			
Delores DeVan						Х		Х		
Write-In										
Write-In										
			~		ioner Seat			N/	N/	×
George Fisk	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Write-In										
Maa			X		endum A	r r	X		(	1
Yes No	Х		Х	Х	Х	N/	Х	U	X	
		Х				X			Х	X
		Х				Х			Х	Х
	В		В	В	В	B	В	В		B
	B 1	B 2	B 3	B 4	B 5	B 6	B 7	B 8	Х В 9	
		В	3		5	B 6			В	В
Precinct 2 REP James Collins		В	3	4	5	B 6			В	В
Precinct 2 REP James Collins Alexander P.	1	B 2	3	4	5 he United S	B 6 itates	7		B 9	В
Precinct 2 REP James Collins Alexander P. Bicket	1	B 2	3	4 President of t	5 he United S	B 6	7	8	B 9	В
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen	1	B 2	3	4	5 he United S	B 6 itates	7		B 9	B 10
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In	1	B 2	3	4 President of t	5 he United S X	B 6 tates X	7	8	B 9	В
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In	1	В 2 Х	3	4 President of t	5 he United S	B 6 tates X	7	8 X	B 9	В 10
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford	1 X	B 2	3 X	4 President of t	5 he United S X ates Senato	B 6 itates X	7 X	8	В 9 Х	B 10
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln	1	В 2 Х	3	4 President of t X United St	5 he United S X	B 6 tates X	7	8 X	B 9	В 10
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford	1 X	В 2 Х	3 X X	4 President of t X United St X X X	5 he United S X ates Senato	B 6 itates X r	7 X	8 X	В 9 Х	В 10
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln Write-In	1 X X	B 2 X	3 X X Repr	4 President of t X United St	5 he United S X ates Senato X Congress S	B 6 itates X r	7 X X	8 X X	В 9 Х	B 10 X
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln Write-In Ben Baker	1 X	В 2 Х	3 X X	4 President of t X United St X esentative in	5 he United S X ates Senato	B 6 tates X r x	7 X	8 X	В 9 Х	В 10
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln Write-In Ben Baker	1 X X	B 2 X	3 X X Repr	4 President of t  X United St  X esentative in  X X	5 he United S X ates Senato X Congress S X	B 6 itates X r	7 X X	8 X X	В 9 Х	B 10 X
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln Write-In Ben Baker Write-In	1 X X	B 2 X	3 X X Repr	4 President of t  X United St  X esentative in  X Go	5 he United S X ates Senato X Congress S	B 6 tates X r x	7 X X X X	8 X X	В 9 Х	B 10 X
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey	1 X X	B 2 X	3 X X Repr U	4 President of t  X United St  X esentative in  X X	5 he United S X ates Senato X Congress 5 X vernor	B 6 tates X r x	7 X X	8 X X	В 9 Х	B 10 X
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter	1 X X X X	B 2 X	3 X X Repr	4 President of t  X United St  X esentative in  X Go	5 he United S X ates Senato X Congress S X	B 6 itates X r r T br bistrict	7 X X X X	8 X X	B 9 X X	B 10 X X
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton	1 X X	B 2 X	3 X X Repr U	4 President of t  X United St  X esentative in  X Go	5 he United S X ates Senato X Congress 5 X vernor	B 6 tates X r x	7 X X X X	8 X X	В 9 Х	B 10 X
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton Edwin Lewis	1 X X X X	B 2 X	3 X X Repr U	4 President of t  X United St  X esentative in  X Go	5 he United S X ates Senato X Congress 5 X vernor	B 6 itates X r r T br bistrict	7 X X X X	8 X X X	B 9 X X	B 10 X X
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton Edwin Lewis Samuel Lawton	1 X X X X	B 2 X	3 X X Repr U	4 President of t  X United St  X esentative in  X Go	5 he United S X ates Senato X Congress 5 X vernor	B 6 itates X r r T br bistrict	7 X X X X	8 X X	B 9 X X	B 10 X X
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton Edwin Lewis	1 X X X X	B 2 X	3 X X Repr U	4 President of t X United St X resentative in X Go X Go X	5 he United S X ates Senato X Congress 5 X vernor X	B 6 itates X	7 X X X X	8 X X X	B 9 X X	B 10 X X
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton Edwin Lewis Samuel Lawton Write-In	1 X X X X X	B 2 X	3 X X Repr U	4 President of t X United St X resentative in X Go X Go X	5 he United S X ates Senato X Congress 5 X vernor	B 6 itates X	7 X X X X	8 X X X X X X	B 9 X X	B 10 X X
Precinct 2 REP James Collins Alexander P. Bicket Carol Koethen Write-In Bob Ford Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton Edwin Lewis Samuel Lawton	1 X X X X	B 2 X	3 X X Repr U	4 President of t X United St X resentative in X Go X Go X	5 he United S X ates Senato X Congress 5 X vernor X	B 6 itates X	7 X X X X	8 X X X	B 9 X X	B 10 X X

Write In		1	1		1	V	T	1	1	
Write-In			Bonrocont-t	ive in the Ge	noral Accor		triot			
Horny Didor	V			ive in the Ge			SILICI	V	1	v
Harry Rider	Х	Х	Х	v	Х	Х		Х	~	Х
Robert Tyrell				Х			Х		Х	
Write-In			Dra	aidontial Nar	mination Del	logotica				
	X	X		sidential Nor	mination De	egation	N N	X	1	X
Gloria Dillion	Х	Х	Х				Х	Х		Х
Heather	Х		Х							Х
Heidelbaugh		-								
Herbert Devine	Х			Х	Х		Х	U		Х
George A. Fisk		X						U		
Doris Shiddles		Х			Х					
Andre Ninia			Х							
Brian Getz				Х	Х					
Chad Snow				Х		Х				
Diane Rubin						Х			Х	
Elizabeth Piazza						Х	Х			
Write-In									Х	
Write-In									Х	
Write-In										
1				Judge of the	Superior C	ourt	·			
Richard Maxian				X						Х
Marjorie Hall		Х				Х				
Robert L. Linkey	Х	-	Х		Х	-	Х	Х	Х	
Write-In						1	1			
		1	Jud	ge of the Co	mmonwealt	h Court	I	1	1	
Chris Carpenter	Х	U	X	X	X	X	Х	Х	Х	Х
Write-In	Λ	0	Λ	Λ	~~~~~	~~~~	~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	Λ
Willo III			ludo	e of the Cou	irt of Comm	on Pleas				
Mary L. Daniel		Х	X	X		X	Х	Х	Х	
John Roy	Х	X	~	~		~	~	~	X	Х
Jack "Duke"	^	^					-		^	~
Brodisky	Х		Х		Х	Х		Х		Х
Jon Young				Х			-			
Vic Stabile				^	Х		v			
					^		Х			
Write-In										
Write-In										
News an Decement	X	1		County Cr	hief Executiv			V	V	
Norman Powers	Х	N/	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	X	Х	Х	×	Х	Х	×
Sandra Reilly		Х	Х	Х			Х			Х
Write-In										
					ector Regio	n 6	1			
Gerald Danson	U	Х		Х	Х			Х	Х	Х
Greg Ortiz	U	Х	Х			Х		Х	Х	
Shlomo Archibald			Х	Х	Х		ļ			Х
Delores DeVan						Х				
Write-In							Х			
Write-In							U			
				Commiss	sioner Seat					
Steve West	Х		Х	Х	Х	Х	Х	Х	U	Х
Write-In		Х								
				Refer	endum A		·			
Yes	U		Х	Х	Х	Х	Х	Х	U	
No		Х					1			Х
		•							•	
Precinct 2 DEM	В	В	В	В	В	В	В	В	В	В
	1	2	3	4	5	6	7	8	9	10
			P	President of t	the United S	tates				
Barry Josey	Х	Х		Х		Х		Х		Х
Calvin Marino		1	Х		Х		Х			
Write-In									Х	
				United St	ates Senato	r				
		r	V	X	Solution and	-	Х			Х
Oscar Draper	X		~	^						
	Х	X	Х	^	X		~	x		Λ
Oscar Draper Carter McGaw Write-In	X	Х			Х	X	~	Х	X	Λ

Dauhana Dawa t		1	Repro	esentative in	Congress 5	" District	1	1		1
Barbara Barret Hicks			Х	Х	Х		Х	Х	Х	Х
Clinton Testo		Х				Х				
Write-In	Х	~ ~		<del> </del>		~				
		ı	ı	Gov	vernor		•			
Charles Jasen	Х	Х	Х		Х	Х			Х	
Shirley Henning				Х				Х		Х
Write-In							Х			
				Lieutena	nt Governor					
Sherman R.		х						Х		
Bucher		~						~		
Richard V. Suits										Х
Tabathia Song			Х				Х			
Kenneth	Х			х	х	Х			Х	
Interlicchio							-			
Write-In										
	Х		Representat	ive in the Ge			strict	V	V	
R. J. Abbott	Χ	Х	V	Х	Х	Х	V	Х	Х	V
Peter F. Saxton Write-In			Х	<u>├</u>			Х			Х
		1	Dro	sidential Non	nination Dol	anation	L	I		1
Vincent Seymour		Х	rre:			X	ſ	Х		
Toni Hamilton	Х	^	Х	^	Х	× X	Х	^	Х	х
Sam Patel	Λ	Х	^	Х	~	X	^	Х	Λ	X
Robert Rocco	Х	^	Х	^	Х	× X	Х	^ U	Х	X
Renee Cohn						~		_		
Jubelrier	Х		Х		Х		Х	U	Х	Х
Morton Steele	Х		Х	† †	Х		Х		Х	
Mary Burke		Х	1	Х			1			
Nyda E. Hambin		Х		Х						
Write-In										
Write-In										
Write-In										
Write-In										
				Judge of the	Superior Co					
Linda Gapp		Х				Х		Х		
Patricia Smallmon	Х		Х	Х	Х		Х		Х	Х
Write-In			_							
		1 x -	Jud	Ige of the Co		n Court				1
Eugene Ruff	Х	Х		Х	Х		Х	Х	Х	
Lewis Tese			Х			Х				Х
Write-In			L			DI -				
	V	V		ge of the Cou			T	× ×	V	V
Joanne Shollzert	X	X	Х	v	X	X U	v	Х	X	Х
Kerry Jones	Х	Х	v	Х	Х	U	X		Х	v
Steven Miller			Х	Х			Х	Х		Х
Shirley Henning Write-In				~				~		
Write-In			1	╂───┤			+			
		1	1	County Ch	ief Executiv	<u>م</u>	l	1		1
Micheal										
Santarcangelo	Х		Х		Х	Х	Х		Х	
Charles Place		Х		Х				Х		Х
Write-In		~	1				ł			
		1	1	School Dire	ector Region	6	1	1		1
Douglas Stone		Х				-	U		Х	
Gerald Danson		X	1	Х		Х	U	Х	X	Х
Greg Ortiz	Х	-	Х					-		X
Shlomo Archibald			X	Х		Х	1	Х		
Delores DeVan	Х				Х			-		1
Write-In					X					
Write-In										
			•	Commiss	ioner Seat 2		•			
Tetty Rogiers	Х	Х	Х	Х	U	Х	Х	Х	Х	Х
Write-In										

Maa					rendum A	1				-
Yes	Х	Х	U	Х	U		U	Х	Х	
No						Х				Х
		-								-
Precinct 3 REP	B 1	B 2	В 3	B 4	В 5	B 6	B 7	B 8	В 9	В 10
		2	-	President of	-	-	1	0	3	10
James Collins	Х	Х		U		X		Х		Х
Alexander P.		~		0	Х	~	Х	~		~
Bicket					~		~			
Carol Koethen			Х						Х	
Write-In										
				United S	tates Senat	or				
Bob Ford	U					Х			Х	
Colby Lincoln		Х		Х	Х		Х	Х		Х
Write-In			Х			th				
	1		Repro	esentative in	Congress 1	0 <sup>°°</sup> District				-
Cheryl Simon	V	Х	×	Х	V	V	V	V	Х	V
Lois Koss	Х		Х	+	Х	Х	Х	Х		Х
Write-In					Worner				<b>I</b>	
Dean Lindsey	1		T	X	overnor	1	X		T	
Dean Lindsey Don Etter	1		X	^	Х	1	^			
Joe Carlton	Х	_				X			Х	X
Edwin Lewis		Х	+	+		~				~
Samuel Lawton	1		+	-		1		Х		
Write-In	1	1	1	1	1				1	
		1	1	Lieuten	ant Governo	or	1	-1	I	1
Scott Montes	Х		Х			X		Х		
Saul Currier	1		1	Х	1	1	1	1		Х
Arnold Krill		Х			Х		Х		Х	
Write-In										
				tive in the G	eneral Asse		istrict			
Peter Valle	Х	Х	X	Х	U	Х	Х		Х	Х
Write-In								Х		
		1	Pre	esidential No					T	
Gloria Dillion	Х				Х	U	Х			
Heather	Х	1				U		Х	Х	
Heidelbaugh	V				×	+	v	+		_
Herbert Devine George A. Fisk	Х			-	X	U	X			~
Doris Shiddles		X	+		^		Х			X
Andre Ninia		X		Х				X		
Brian Getz			Х	^	1			X		X
Chad Snow	1	_	X	Х				^	Х	X
Diane Rubin	1	-	X			1		1		~
Elizabeth Piazza	1	1		Х	1	1				
Write-In	1	1	1		1				Х	
Write-In		1	1	1						
Write-In	1		1		1	1	1	1		1
		1		Judge of th	e Superior (	Court			I	
Richard Maxian			Х	-			Х			Х
Marjorie Hall		1			Х			Х		
Robert L. Linkey	Х	Х		Х		Х			Х	
Write-In			ĺ							
				dge of the C						
Chris Carpenter	U	Х	Х		Х	Х	Х	Х	U	Х
Write-In				Х						
				ge of the Co		non Pleas				
Mary L. Daniel		U	Х	Х	Х		Х	Х	Х	Х
John Roy		U		Х					Х	
Jack "Duke"	Х		Х		Х	Х		Х		Х
Brodisky	-							-		
Jon Young	1		1	1	1	Х	1	1		
Vic Stabile				-	-		Х			

Write-In	Х									
Write-In	^			1	+					
	1	1		County	Chief Execut	ive		1		1
Norman Powers	Х		Х	X		X	Х	T	Х	
Sandra Reilly		Х			Х			Х		Х
Write-In		~		-			1			
White in				School D	irector Regi	on 6				
Gerald Danson	1	Х	Х			X	1	Х		Х
Greg Ortiz			X	Х		~		X	Х	~
Shlomo Archibald	Х	Х		X	Х	Х	Х		X	Х
Delores DeVan	X				X		X			~
Write-In	~									
Write-In										
		1		Commi	ssioner Seat	3				
William Malicki	Х	Х	Х		Х		Х	Х	Х	Х
Gary Klemann				Х		Х				
Write-In										
		•	•	Refe	erendum A	•	•	•	•	
Yes	Х		Х		Х	Х		Х	Х	
No		Х		Х			Х			Х
Precinct 3 DEM	В	В	В	В	В	В	В	В	В	В
	<u>Б</u>	<u>В</u> 2	3	Б 4	5	6	7	8	9	ы 10
		<b>∠</b>	<u>່</u> ວ	4 President o			1	0	9	10
Barry Josey				X		X		Х		
Calvin Marino	Х		Х	^	Х	^	Х	^	Х	Х
Write-In	^	Х	^	-	^		^		^	~
	1	~	<b>I</b>	United	States Senat	or		-	<b>I</b>	
Oscar Draper		Х		X	X	X		Х	Х	
Carter McGaw	Х		Х	~ ~			Х		~ ~	Х
Write-In					1					
	1		Rep	resentative i	n Congress	10 <sup>th</sup> District	<b>I</b>	1	- 1	
William Sullivan	Х	Х	X	X	X	X	Х	U	Х	Х
Write-In	1				1	-				
				G	overnor	•	•			
Charles Jasen	Х		U	Х	X		Х		Х	
Shirley Henning		Х				Х	T	1		Х
Write-In								Х		
		•	•	Lieuter	ant Govern	or	•	•	•	
Sherman R.		Х	Х		х			х		
Bucher		X	~		~			X		
Richard V. Suits										Х
Tabathia Song							Х			
Kenneth	Х			Х		Х			Х	
Interlicchio				^					~	_
Write-In			<u> </u>		<u> </u>					
N 10			Represent	ative in the C	eneral Asse					
Neil Carey	Х	Х		Х		Х	Х	Х		Х
Saul Currier			Х		Х				Х	_
Write-In				a a la const - L M					1	
Vincent Courses	1	-		esidential N		elegation	V		V	-
Vincent Seymour Toni Hamilton	v	v	U	~	X	v	X	v	Х	
	Х	Х	U	Х	V	Х	v	Х	~	
Sam Patel	v	v	U	V	X U	v	Х	v	Х	
Robert Rocco Renee Cohn	Х	Х	0	Х		Х		Х		
Jubelrier	Х	Х		Х	U	Х		Х		
Morton Steele	Х	U		Х	+	Х	+	Х		
Mary Burke	^			^	+	^	X	- ^	Х	
Nyda E. Hambin		+			+	+	X	+	- ^	-
Write-In	-	+	+		+		^		Х	Х
Write-In				-	+		+		- ^	X
Write-In				-	+		+			X
		+		+	+	+	+	+		X
Write-In										

Linda Gapp			Х			Х		Х		
Patricia Smallmon	Х	Х		Х	Х		Х		Х	Х
Write-In										
			Jud	ge of the Co	mmonwealt	h Court				
Eugene Ruff	Х	Х		X		Х	Х		Х	
Lewis Tese			Х		Х			Х		Х
Write-In										
			Judg	je of the Cou	Irt of Comm	on Pleas				
Joanne Shollzert		Х	Х		Х	Х		Х	Х	
Kerry Jones			Х	Х	Х	U	Х	Х		
Steven Miller		Х					Х		Х	Х
Shirley Henning				Х						Х
Write-In	X X									
Write-In	Х									
				County Cl	nief Executiv	ve				
Micheal Santarcangelo	х		Х	Х		Х	Х		Х	х
Charles Place					Х			Х		
Write-In		Х			~			~		
WINC III		Л		School Dir	ector Regio	n 6				
Douglas Stone	Х		Х					Х		
Gerald Danson	,,	Х	X	Х	Х	Х				Х
Greg Ortiz	Х			X					Х	
Shlomo Archibald		Х			Х		Х	Х	X	Х
Delores DeVan						Х	X			
Write-In										
Write-In										
				Commiss	sioner Seat	3				
Arnold Wells	Х	Х	Х	Х	Х	Х	Х		Х	Х
Write-In								Х		
		-		Refer	endum A					
Yes	Х		Х		Х		Х		Х	
No		Х		Х		Х		Х		Х

### **Test Results:**

Precinct 1 REP	
President of the United St	ates
James Collins	5
Alexander P. Bicket	2
Carol Koethen	2
Write-In	1
Undervotes	0
Childer votes	0
United States Senator	
Bob Ford	3
Colby Lincoln	6
Write-In	1
Undervotes	0
Chidervotes	0
Representative in Congres	s 5th District
Ben Baker	8
Write-In	1
Undervotes	1
Childervotes	1
Governor	
Dean Lindsey	2
Don Etter	2

P	
Joe Carlton	4
Edwin Lewis	1
Samuel Lawton	
Write-In	
	0
Undervotes	0
Lieutenant Governor	
Scott Montes	2
Saul Currier	2
Arnold Krill	5
Write-In	1
Undervotes	0
Bernersterting in the Commu	1 4
Representative in the Genera	
Harry Rider	6
Robert Tyrell	3
Write-In	1
Undervotes	0
Chaervotes	·
<b>D</b>	
Presidential Nomination Dele	
Gloria Dillion	7
Heather Heidelbaugh	3
Herbert Devine	7
Goorgo A Eist-	2
George A. Fisk	
Doris Shiddles	2
Andre Ninia	1
Brian Getz	3
Chad Snow	
Diane Rubin	1
Elizabeth Piazza	1
Write-In	2
Undervotes	0
Under votes	
Judge of the Superior Court	
Richard Maxian	2
Marjorie Hall	2 2
Robert L. Linkey	4
Write-In	1
Undervotes	1
Judge of the Commonwealth	Court
Chris Carpenter	9
Write-In	0
Undervotes	1
Judge of the Court of Comm	on Pleas
Mary L. Daniel	7
John Roy	1
John Kuy	
Jack "Duke" Brodisky	7
Jon Young	1
Vic Stabile	1
Write-In	1
Undervotes	2
Undervotes	2
County Chief Executive	
Norman Powers	7
Sandra Reilly	3
Write-In	0
Undervotes	0
	U C
School Director Region 6	
Gerald Danson	5
Greg Ortiz	4
Shlomo Archibald	8
Delores DeVan	3
Write-In	0
Undervotes	0
Commissioner Seat 1	
Commissioner seat I	

Stephen Harrick         8           Write-In         1           Undervoes         1           Referendum A         -           Yes         6           No         3           Undervoes         1           President DEM         -           President of the United States         -           Barry Josey         2           Calvin Marino         6           Write-In         1           Undervoes         0           Representative in Congress Stripter         1           Burban Buret Hicks         6           Chrolen Isoson         3           Undervoe	
Undervotes         1           Referendum A         -           Yes         6           No         3           Undervote         1           President of the United States         -           President of the United States         -           Calvin Marino         6           Calvin Marino         6           Write-In         1           Undervotes         3           Write-In         0           Undervotes         0           Representative in Congress 5th         District           Barbon Barret Hicks         6           Coltron Testo         3           Write-In         1           Undervotes         0           Gevernor         -           Charles Jasen         5           Shiriby Henning         4           Write-In         1           Undervotes         0           Undervotes         2     <	
Referendum A         6           Yes         6           No         3           Undervote         1           President of the United Statuses         5           Barry Josey         2           Calvin Marino         6           Verite-In         1           Undervotes         0           Representative in Congress Str         5           Mrite-In         1           Undervotes         0           Representative in Congress Str         3           Write-In         1           Undervotes         0           Cover Nor         3           Undervotes         0           <	
Yes         6           No         3           Undervore         1           Precinct 1 DEM	
Yes         6           No         3           Undervore         1           Precinct 1 DEM	
No         3           Undervore         1           Precinct DEM	
Undervoir         1           President of the United States	
Precinct 1 DEM           President of the United States           Barry Josey         2           Calvin Marino         6           Write-In         1           Undervotes         1           Scar Drapery         7           Carter McGaw         3           Write-In         0           Undervotes         0           Representative in Congress 5D District           Barbara Barret Hicks         6           Cintor Testo         3           Write-In         1           Undervotes         0           Representative in Congress 5D District           Barbara Barret Hicks         6           Cintor Testo         3           Write-In         1           Undervotes         0           Governor         -           Charles Jasen         5           Shirley Henning         4           Write-In         1           Undervotes         0           Lieutenant Governor         -           Kichard V. Suits         1           Tabathia Song         2           Kichard V. Suits         1           Undervotes         0	
President of the United States           Barry Josey         2           Calvin Marino         6           Write-In         1           Undervotes         1           Oscar Draper         7           Carter McGaw         3           Undervotes         0           Write-In         0           Undervotes         0           Barbara Barret Hicks         6           Barbara Barret Hicks         6           Clinton Testo         3           Write-In         1           Undervotes         0           Clinton Testo         3           Write-In         1           Undervotes         0           Governor         7           Charles Jasen         5           Shirley Henning         4           Write-In         1           Undervotes         0           Eterteration         5           Shirley Henning         4           Write-In         1           Undervotes         0           Eterteration         5           Shirley Henning         1           Kehard V. Suits         1	
President of the United States           Barry Josey         2           Calvin Marino         6           Write-In         1           Undervotes         1           Oscar Draper         7           Carter McGaw         3           Undervotes         0           Write-In         0           Undervotes         0           Barbara Barret Hicks         6           Barbara Barret Hicks         6           Clinton Testo         3           Write-In         1           Undervotes         0           Clinton Testo         3           Write-In         1           Undervotes         0           Governor         7           Charles Jasen         5           Shirley Henning         4           Write-In         1           Undervotes         0           Eterteration         5           Shirley Henning         4           Write-In         1           Undervotes         0           Eterteration         5           Shirley Henning         1           Kehard V. Suits         1	
President of the United States           Barry Josey         2           Calvin Marino         6           Write-In         1           Undervotes         1           Oscar Draper         7           Carter McGaw         3           Undervotes         0           Write-In         0           Undervotes         0           Barbara Barret Hicks         6           Barbara Barret Hicks         6           Clinton Testo         3           Write-In         1           Undervotes         0           Clinton Testo         3           Write-In         1           Undervotes         0           Governor         7           Charles Jasen         5           Shirley Henning         4           Write-In         1           Undervotes         0           Eterteration         5           Shirley Henning         4           Write-In         1           Undervotes         0           Eterteration         5           Shirley Henning         1           Kehard V. Suits         1	
President of the United States           Barry Josey         2           Calvin Marino         6           Write-In         1           Undervotes         1           Oscar Draper         7           Carter McGaw         3           Undervotes         0           Write-In         0           Undervotes         0           Barbara Barret Hicks         6           Barbara Barret Hicks         6           Clinton Testo         3           Write-In         1           Undervotes         0           Clinton Testo         3           Write-In         1           Undervotes         0           Governor         7           Charles Jasen         5           Shirley Henning         4           Write-In         1           Undervotes         0           Eterteration         5           Shirley Henning         4           Write-In         1           Undervotes         0           Eterteration         5           Shirley Henning         1           Kehard V. Suits         1	
Barry Josey         2           Calvin Marino         6           Write-In         1           Undervotes         1           Oscar Draper         7           Carter McGaw         3           Write-In         0           Undervotes         0           Barbara Barret Hicks         6           Clinton Testo         3           Write-In         1           Undervotes         0           Barbara Barret Hicks         6           Clinton Testo         3           Write-In         1           Undervotes         0           Governor         5           Shriley Henning         4           Write-In         1           Undervotes         0           Governor         5           Shriley Henning         4           Write-In         1           Undervotes         0           Euternant Governor         5           Kenneth Interviceti         1           Undervotes         0           Undervotes         0           Euternant Governor         1           Representative in the Governor         1	
Calvin Marino 6 Write-In 1 Undervotes 1 Cosar Draper 7 Carter McGaw 3 Carter McGaw 3 Undervotes 0 Representative in Congress 5tb Jistrict Barbara Barret Hicks 6 Chinton Testo 3 Write-In 1 Undervotes 0 Governor 5 Charles Jasen 5 Shirley Henning 4 Write-In 1 Undervotes 0 Eleutenant Governor 5 Shirley Henning 4 Write-In 1 Undervotes 0 Lieutenant Governor 5 Shirley Henning 4 Shirley Henning 4 Write-In 1 Undervotes 0 Lieutenant Governor 5 Lieutenant Governor 5 Kenneuh Interlicchio 5 Write-In 1 Undervotes 0 Kenneuh Interlicchio 5 Kenneuh Interlicchi	
Write-In       1         Undervotes       1         Oscar Draper       7         Carter McGaw       3         Write-In       0         Undervotes       0         Representative in Congress 5/// District       1         Barbana Barter Hicks       6         Clinton Testo       3         Write-In       1         Undervotes       0         Governor       1         Charles Jasen       5         Shirley Henning       4         Write-In       1         Undervotes       0         Eutenant Governor       1         Eitentant Governor       1         Eitentant Governor       1         Shirley Henning       4         Write-In       1         Undervotes       0         Vitue-In       1         Tabathia Song       2         Kenneth Interlicechio       5         Write-In       1         Undervotes       0         Write-In       1         Undervotes       1         Write-In       1         Undervotes       5         Kenneth Intertic	
Undervotes       1         Orierd States Senator       7         Oscar Draper       7         Carter McGaw       3         Write-In       0         Undervotes       0         Representative in Congress J: District       1         Cinton Testo       3         Write-In       1         Undervotes       0         Governor       -         Charles Jasen       5         Shirley Henning       4         Write-In       1         Undervotes       0         Shirley Henning       5         Shirley Henning       1         Hettertant Covernor       -         Extense and Covernor       -	
United States Senator         Oscar Drapen       7         Carter McGaw       3         Write-In       0         Undervotes       0         Representative in Congress Strict       5         Barbara Baret Hicks       6         Clinton Testo       3         Write-In       1         Undervotes       0         Governor       5         Shirley Henning       4         Write-In       1         Undervotes       0         Shirley Henning       4         Write-In       1         Undervotes       0         Eutenant Covernor       5         Shirley Henning       4         Write-In       1         Undervotes       0         Eutenant Covernor       5         Sherman R. Bucher       1         Richard V. Suits       1         Tabathia Song       2         Kenneth Interficechio       5         Write-In       1         Undervotes       0         Representative in the General-Xesembly B37d District         Rabatha Song       5         Write-In       1	
Oscar Draper         7           Carter McGaw         3           Write-In         0           Undervotes         0           Representative in Congress 5th District           Barbara Barret Hicks         6           Clinton Testo         3           Write-In         1           Undervotes         0           Governor           Charles Jasen           Shritey Henning         4           Write-In         1           Undervotes         0           District Size Size Size Size Size Size Size Size	
Oscar Draper         7           Carter McGaw         3           Write-In         0           Undervotes         0           Representative in Congress 5th District           Barbara Barret Hicks         6           Clinton Testo         3           Write-In         1           Undervotes         0           Governor           Charles Jasen           Shritey Henning         4           Write-In         1           Undervotes         0           District Size Size Size Size Size Size Size Size	
Carter McGaw         3           Write-In         0           Representative in Congress 5	
Write-In       0         Representative in Congress 5/// District         Barbara Barret Hicks       6         Clinton Testo       3         Write-In       1         Undervotes       0         Governor       0         Charles Jasen       5         Shirley Henning       4         Write-In       1         Undervotes       0         Eteitemant Governor       5         Shirley Henning       4         Write-In       1         Undervotes       0         Eteitemant Governor       5         Shirley Henning       4         Write-In       1         Undervotes       0         Eteitemant Governor       5         Kirland V, Suits       1         Richard V, Suits       1         Tabathia Song       2         Kenneth Interlicchio       5         Write-In       1         Undervotes       0         Representative in the General Sarbity Ext         R. J. Abbott       5	
Undervotes         0           Representative in Congress J- bistrict           Barbara Barret Hicks         6           Chinto Testo         3           Write-In         1           Undervotes         0           Governor         -           Charles Jasen         5           Shirley Henning         4           Undervotes         0           Eternant Governor         -           Literant Governor         -           Kinder J. Suits         1           Undervotes         0           Virte-In         1           Undervotes         0           Eternant Governor         -           Kichard V. Suits         1           Tabathia Song         2           Kenneth Interlicchio         5           Write-In         1           Undervotes         0	
Representative in Congress 5H District         Barbara Barret Hicks       6         Clinton Testo       3         Write-In       1         Undervotes       0         Governor       -         Charles Jasen       5         Shirley Henning       4         Write-In       1         Undervotes       0         Burner Hicks       5         Shirley Henning       4         Write-In       1         Undervotes       0         Eutenant Governor       -         Eitentenant Governor       -         Shirley Henning       4         Write-In       1         Undervotes       0         Eitentenant Governor       -         Kichard V. Suits       1         Richard V. Suits       1         Tabathia Song       2         Kenneth Interlicchio       5         Write-In       1         Undervotes       0         Representative in the Generative istard District         R. J. Abbott       5	
Barbara Barret Hicks         6           Clinton Testo         3           Write-In         1           Undervotes         0           Governor         -           Charles Jasen         5           Shirley Henning         4           Write-In         1           Undervotes         0           Virte-In         1           Undervotes         0           Lieutenant Governor         -           Lieutenant Governor         0           Lieutenant Governor         -           Shernan R. Bucher         1           Richard V. Suits         1           Tabathia Song         2           Kenneth Interlicchio         5           Write-In         1           Undervotes         0	
Barbara Barret Hicks         6           Clinton Testo         3           Write-In         1           Undervotes         0           Governor         -           Charles Jasen         5           Shirley Henning         4           Write-In         1           Undervotes         0           Virte-In         1           Undervotes         0           Lieutenant Governor         -           Lieutenant Governor         0           Lieutenant Governor         -           Shernan R. Bucher         1           Richard V. Suits         1           Tabathia Song         2           Kenneth Interlicchio         5           Write-In         1           Undervotes         0	
Clinton Testo3Write-In1Undervotes0Governor5Charles Jasen5Shirley Henning4Write-In1Undervotes0Lieutenant GovernorLieutenant Governor-Lieutenant Governor-Shernan R. Bucher1Richard V. Suits1Tabathia Song2Kenneth Interlicchio5Write-In1Undervotes0	
Write-In1Undervotes0Governor-Charles Jasen5Shirley Henning4Write-In1Undervotes0Lieutenant GovernorLieutenant Governor-Tabatha Song2Kenneth Interlicchio5Write-In1Undervotes0	
Undervotes0Governor5Charles Jasen5Shirley Henning4Write-In1Undervotes0Lieutenant GovernorSherman R. Bucher1Richard V. Suits1Tabathia Song2Kenneth Interlicchio5Write-In1Undervotes0Rite-In ter General Kerneth Interlicchio5Representative in the General Kerneth Ister KernethR. J. Abbott5	
Governor         Charles Jasen       5         Shirley Henning       4         Write-In       1         Undervotes       0         Lieutenant Governor         Lieutenant Governor         Sherman R. Bucher       1         Richard V. Suits       1         Tabathia Song       2         Kenneth Interlicchio       5         Write-In       1         Undervotes       0	
Charles Jasen       5         Shirley Henning       4         Write-In       1         Undervotes       0         Lieutenant Governor         Sherman R. Bucher       1         Richard V. Suits       1         Tabathia Song       2         Kenneth Interlicchio       5         Write-In       1         Undervotes       0	
Charles Jasen       5         Shirley Henning       4         Write-In       1         Undervotes       0         Lieutenant Governor         Sherman R. Bucher       1         Richard V. Suits       1         Tabathia Song       2         Kenneth Interlicchio       5         Write-In       1         Undervotes       0	
Shirley Henning       4         Write-In       1         Undervotes       0         Lieutenant Governor         Sherman R. Bucher       1         Richard V. Suits       1         Tabathia Song       2         Kenneth Interlicchio       5         Write-In       1         Undervotes       0	
Write-In       1         Undervotes       0         Lieutenant Governor       1         Sherman R. Bucher       1         Richard V. Suits       1         Tabathia Song       2         Kenneth Interlicchio       5         Write-In       1         Undervotes       0         Representative in the General Assembly 83rd District         R. J. Abbott       5	
Undervotes       0         Lieutenant Governor       1         Sherman R. Bucher       1         Richard V. Suits       1         Tabathia Song       2         Kenneth Interlicchio       5         Write-In       1         Undervotes       0         Representative in the General Assembly 83rd District         R. J. Abbott       5	
Lieutenant Governor         Sherman R. Bucher       1         Richard V. Suits       1         Tabathia Song       2         Kenneth Interlicchio       5         Write-In       1         Undervotes       0         Representative in the General Assembly 83rd District         R. J. Abbott       5	
Sherman R. Bucher     1       Richard V. Suits     1       Tabathia Song     2       Kenneth Interlicchio     5       Write-In     1       Undervotes     0       Representative in the General Assembly 83rd District       R. J. Abbott     5	
Sherman R. Bucher     1       Richard V. Suits     1       Tabathia Song     2       Kenneth Interlicchio     5       Write-In     1       Undervotes     0       Representative in the General Assembly 83rd District       R. J. Abbott     5	
Richard V. Suits     1       Tabathia Song     2       Kenneth Interlicchio     5       Write-In     1       Undervotes     0         Representative in the General Assembly 83rd District       R. J. Abbott     5	
Tabathia Song       2         Kenneth Interlicchio       5         Write-In       1         Undervotes       0         Representative in the General Assembly 83rd District         R. J. Abbott       5	
Kenneth Interlicchio     5       Write-In     1       Undervotes     0       Representative in the General Assembly 83rd District       R. J. Abbott     5	
Write-In     1       Undervotes     0       Representative in the General Assembly 83rd District       R. J. Abbott     5	
Undervotes 0 Representative in the General Assembly 83rd District R. J. Abbott 5	
Representative in the General Assembly 83rd DistrictR. J. Abbott5	
R. J. Abbott 5	
R. J. Abbott 5	
Write-In 1	
Undervotes 1	
Presidential Nomination Delegation	
Vincent Seymour 3	
Toni Hamilton 5	
Sam Patel 3	
Robert Rocco 5	
Renee Cohn Jubelrier 5	
Morton Steele 4	
Mary Burke 2	
Nyda E. Hambin 1	
Write-In 5	
Undervotes 7	
Judge of the Superior Court	
Linda Gapp 2	
Patricia Smallmon 7	
Write-In 1	
Undervotes 0	
Judge of the Commonwealth Court	
Eugene Ruff 6	
Lewis Tese 4	

XX7 ', X	
Write-In	0
Undervotes	0
Judge of the Court of Com	mon Diag
Joanne Shollzert	7
Kerry Jones	7
Steven Miller	3
Shirley Henning	2
Write-In	1
Undervotes	0
County Chief Executive	
Micheal Santarcangelo	7
Charles Place	
Write-In	3
	0
Undervotes	0
School Director Region 6	
Douglas Stone	3
Gerald Danson	7
Greg Ortiz	3
Shlomo Archibald	5
Delores DeVan	$\frac{3}{2}$
Write-In	
Undervotes	0
Undervotes	0
Commissioner Seat 1	
George Fisk	10
Write-In	0
Undervotes	0
Referendum A	
Yes	5
No	4
Undervote	1
Precinct 2 REP	
I I telinet 2 KEI	
President of the United Sta	
James Collins	5
Alexander P. Bicket	2
Carol Koethen	2
Write-In	1
Undervotes	0
United States Senator	
Bob Ford	2
Colby Lincoln	3 6
Coloy Lincoln	
Write-In	1
Undervotes	0
Ponrecontative in Congress	

#### **Representative in Congress 5th District** Ben Baker 6

Ben Baker	6
Write-In	2
Undervotes	2

## Governor

Governor	
Dean Lindsey	2
Don Etter	2
Joe Carlton	4
Edwin Lewis	1
Samuel Lawton	1
Write-In	0
Undervotes	0

Lieutenant Governor	
Scott Montes	2
Saul Currier	3
Arnold Krill	4
Write-In	1
Undervotes	0
Representative in the General	Assembly 83rd District
Harry Rider	7
Robert Tyrell	3
Write-In	0
Undervotes	0
Presidential Nomination Delega	ation
Gloria Dillion	
	6
Heather Heidelbaugh	3
Herbert Devine	5
George A. Fisk	1
Doris Shiddles	2
Andre Ninia	1
Brian Getz	2
Chad Snow	2
Diane Rubin	2 2
Elizabeth Piazza	2
Write-In	2 2
Undervotes	2
Undervotes	2
Judge of the Superior Court	
Richard Maxian	2
Marjorie Hall	2
Robert L. Linkey	6
Write-In	0
Undervotes	0
Judge of the Commonwealth C	lourt
Chris Carpenter	9
Write-In	0
Undervotes	1
Judge of the Court of Common	1 Pleas
Mary L. Daniel	7
John Roy	4
Jack "Duke" Brodisky	6
Jon Young	1
Vic Stabile	2
Write-In	0
Undervotes	0
County Chief Engenting	
County Chief Executive	
Norman Powers	5
Sandra Reilly	5
Write-In	0
Undervotes	0
School Director Region 6	
Careld Day	
Gerald Danson	6
Greg Ortiz	5
Shlomo Archibald	4
Delores DeVan	1
Write-In	1
Undervotes	3
	د.
Commissioner Seat 2	
Steve West	8
Write-In	1
Undervotes	1
Referendum A	
Yes	6
No	2
Undervote	2
-	

President of the United States	
Barry Josey	6
Calvin Marino	3
Write-In	1
Undervotes	0
United States Senator	
Oscar Draper	5 3
Carter McGaw	
Write-In	2
Undervotes	0
Representative in Congress 5th	n District
Barbara Barret Hicks	7
Clinton Testo	2
Write-In	1
Undervotes	0
Governor	
Charles Jasen	6
Shirley Henning	3
Write-In	1
Undervotes	0
Lieutenant Governor	
Sherman R. Bucher	2
Richard V. Suits	1
Tabathia Song	2
Kenneth Interlicchio	5
Write-In	0
Undervotes	0
Representative in the General	Assembly 83rd Distri
R. J. Abbott	7
Peter F. Saxton	3
Write-In	0
Undervotes	0
Presidential Nomination Deleg	ation 4
Vincent Seymour Toni Hamilton	4 7
Sam Patel	5
Robert Rocco	5 7
Renee Cohn Jubelrier	6
Refice Confit Jubenfel	5
Morton Steele	2
Morton Steele Mary Burke	2
Mary Burke	.)
Mary Burke Nyda E. Hambin	2
Mary Burke	2 0 2
Mary Burke Nyda E. Hambin Write-In Undervotes	0
Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Court	0 2
Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Court Linda Gapp	0 2 3
Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Court Linda Gapp Patricia Smallmon	0 2 3 7
Mary Burke Nyda E. Hambin Write-In	0 2 3
Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Court Linda Gapp Patricia Smallmon Write-In Undervotes	0 2 3 7 0 0
Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Court Linda Gapp Patricia Smallmon Write-In Undervotes Judge of the Commonwealth C	0 2 3 7 0 0 2 Court
Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Court Linda Gapp Patricia Smallmon Write-In Undervotes Judge of the Commonwealth C Eugene Ruff	0 2 3 7 0 0 2 2 0 2 0 2 0 2
Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Court Linda Gapp Patricia Smallmon Write-In Undervotes Judge of the Commonwealth C Eugene Ruff Lewis Tese	0 2 3 7 0 0 0 2 2 0 2 0 2 0 2
Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Court Linda Gapp Patricia Smallmon Write-In Undervotes Judge of the Commonwealth C Eugene Ruff Lewis Tese Write-In	0 2 3 7 0 0 0 2 2 0 2 0 2 0 2
Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Court Linda Gapp Patricia Smallmon Write-In Undervotes Judge of the Commonwealth C Eugene Ruff Lewis Tese	0 2 3 7 0 0 0 2 2 0 2 0 2 0 2
Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Court Linda Gapp Patricia Smallmon Write-In Undervotes Judge of the Commonwealth C Eugene Ruff Lewis Tese Write-In	0 2 3 7 0 0 0 2 0 2 0 0 0

Steven Miller	3
Shirley Henning	2
Write-In	0
Undervotes	1
Childer + Step	-
County Chief Executive	
Micheal Santarcangelo	6
Charles Place	4
Write-In	0
Undervotes	0
ondervotes	0
School Director Region 6	
Douglas Stone	2
Gerald Danson	6
Greg Ortiz	3
Shlomo Archibald	4
Delores DeVan	2
Write-In	1
Undervotes	2
Undervotes	2
Commissioner Seat 2	
Tetty Rogiers	9
Write-In	0
Undervotes	1
Chacivotes	1
Referendum A	
Yes	5
No	2
Undervote	3
Precinct 3 REP	
President of the United States	
James Collins	5
Alexander P. Bicket	2
Carol Koethen	2
Write-In	0
Undervotes	1
United States Senator	
Bob Ford	2
Colby Lincoln	2 6
Write-In	
	1
Undervotes	1
D (1)	
<b>Representative in Congress 10</b>	
Cheryl Simon	3
Lois Koss	7
Write-In	0
Undervotes	0
C	
Governor	
Dean Lindsey	2
Don Etter	2
Joe Carlton	4
Edwin Lewis	1
Samuel Lawton	1
Write-In	0
Undervotes	0
Lieutenant Governor	
Scott Montes	4
Scott Montes	4
Saul Currier	2
Saul Currier Arnold Krill	2 4
Saul Currier Arnold Krill Write-In	2 4 0
Saul Currier Arnold Krill	2 4
Saul Currier Arnold Krill Write-In	2 4 0 0

Peter Valle

Write-In	1	
Undervotes	1	
Presidential Nomination D	legation	
Gloria Dillion	3	
Heather Heidelbaugh	3	
Herbert Devine	3	
George A. Fisk	4	
Doris Shiddles	1	
Andre Ninia	3	
Brian Getz	3	
Chad Snow	4	
Diane Rubin	1	
Elizabeth Piazza	1	
Write-In	1	
Undervotes	3	
Undervotes	5	
Judge of the Superior Cou		
Richard Maxian	3	
Marjorie Hall	2	
Robert L. Linkey	5	
Write-In	0	
Undervotes	0	
Judge of the Commonweal		
Chris Carpenter	7	
Write-In	1	
Undervotes	2	
Judge of the Court of Com		
Mary L. Daniel	7	
John Roy	2	
Jack "Duke" Brodisky	6	
Jon Young	1	
Vic Stabile	1	
Write-In	1	
Undervotes	2	
County Chief Executive		
Norman Powers	6	
Sandra Reilly	4	
Write-In	0	
Undervotes	0	
School Director Region 6		
Gerald Danson	5	
Greg Ortiz	4	
Shlomo Archibald	8	
Delores DeVan	3	
Write-In	0	
Undervotes	0	
Commissioner Seat 3		
William Malicki	8	
Gary Klemann	2	
Write-In		
Undervotes	0	
Referendum A		
Yes	6	
No	4	
Undervote	0	
Precinct 3 DEM		
President of the United Sta	tes	

Barry Josey	3
Calvin Marino	6
Write-In	1
Undervotes	0
United States Senator	
Oscar Draper	6
Carter McGaw	4
Write-In	0
Undervotes	0
Representative in Congress 10	
William Sullivan	9
Write-In	0
Undervotes	1
Coverner	
Governor	
Charles Jasen	5
Shirley Henning	3
Write-In	1
Undervotes	1
Lieutenant Governor	
Sherman R. Bucher	4
Richard V. Suits	1
Tabathia Song	1
Kenneth Interlicchio	4
Write-In	0
Undervotes	0
Childer votes	
Representative in the General	
Neil Carey	7
Saul Currier	3
Write-In	0
Undervotes	0
	•
D	
Presidential Nomination Deleg	
Vincent Seymour	3
Toni Hamilton	5
Sam Patel	3
Robert Rocco	5
Renee Cohn Jubelrier	5
Morton Steele	4
Mary Burke	2
Nyda E. Hambin	1
Write-In	5
Undervotes	7
Judge of the Superior Court	
Linda Gapp	3
Patricia Smallmon	7
Write-In	0
Undervotes	0
Judge of the Commonwealth C	Court
Eugene Ruff	6
Lewis Tese	4
Write-In	0
Undervotes	0
Undervotes	v
Judge of the Court of Common	
Joanne Shollzert	6
Kerry Jones	5
Steven Miller	4
Shirley Henning	$\frac{1}{2}$
Write-In	2
Undervotes	1
County Chief Executive	

Micheal Santarcangelo	7
Charles Place	2
Write-In	1
Undervotes	0
Undervotes	0
School Director Region 6	
Douglas Stone	3
Gerald Danson	6
Greg Ortiz	3
Shlomo Archibald	6
Delores DeVan	2
Write-In	0
Undervotes	0
Commissioner Seat 3	
	0
Arnold Wells	9
Write-In	1
Undervotes	0
Referendum A	
Yes	5
No	5
Undervote	0
Undervote	0
Precinct 3 Non Partisan	
Referendum A	
Yes	2
No	2
Undervote	1
Undervote	1
Cumulative Totals	REP:
President of the United Sta	top
James Collins	15
Alexander P. Bicket	6
Carol Koethen	6
Write-In	2
Write-In Undervote	
Undervote	2
Undervote United States Senator	2 1
Undervote United States Senator Bob Ford	2 1 8
Undervote United States Senator Bob Ford Colby Lincoln	2 1 8 18
Undervote United States Senator Bob Ford Colby Lincoln Write-In	2 1 8 18 3
Undervote United States Senator Bob Ford Colby Lincoln	2 1 8 18
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote	2 1 8 18 3 1
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress	2 1 8 18 3 1 5 <b>5 th District</b>
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker	2 1 8 18 3 1 5 <b>5th District</b> 14
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress	2 1 8 18 3 1 5 <b>5 th District</b>
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote	2 1 8 18 3 1 1 <b>s 5th District</b> 14 3 3
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress	2 1 8 18 3 1 1 s 5th District 14 3 3 s
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon	2 1 8 18 3 1 1 <b>s 5th District</b> 14 3 3 <b>s 10th District</b> 3
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss	2 1 8 8 3 1 s 5th District 14 3 3 s 10th District 3 7
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss Write-In	2 1 8 18 3 1 1 <b>s 5th District</b> 14 3 3 <b>s 10th District</b> 3
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss	2 1 8 8 3 1 s 5th District 14 3 3 s 10th District 3 7
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss Write-In	2 1 8 8 18 3 1 5 <b>5th District</b> 14 3 3 5 <b>10th District</b> 3 7 0
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss Write-In	2 1 8 8 18 3 1 5 <b>5th District</b> 14 3 3 5 <b>10th District</b> 3 7 0
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss Write-In Undervote	2 1 8 18 3 1 5 <b>5th District</b> 14 3 3 5 <b>10th District</b> 3 7 0 0
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss Write-In Undervote	2 1 8 18 3 1 1 5 <b>5th District</b> 3 5 <b>10th District</b> 3 7 0 0
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss Write-In Undervote Governor Dean Lindsey Don Etter	2 1 8 18 3 1 5 5th District 14 3 3 5 10th District 3 7 0 0 0
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss Write-In Undervote Governor Dean Lindsey Don Etter Joe Carlton	2 1 8 18 3 1 5 5th District 14 3 3 5 10th District 3 7 0 0 0 12
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss Write-In Undervote Governor Dean Lindsey Don Etter Joe Carlton Edwin Lewis	2 1 8 18 3 1 5 5th District 14 3 3 5 10th District 3 7 0 0 0 1 2 3
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss Write-In Undervote Governor Dean Lindsey Don Etter Joe Carlton Edwin Lewis Samuel Lawton	2 1 8 18 3 1 5 <b>5th District</b> 3 5 <b>10th District</b> 3 7 0 0 0 0 1 3 3 3
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss Write-In Undervote Governor Dean Lindsey Don Etter Joe Carlton Edwin Lewis Samuel Lawton Write-In	2 1 8 8 18 3 1 5 <b>5 th District</b> 14 3 3 5 <b>1 oth District</b> 3 7 0 0 0 0
Undervote United States Senator Bob Ford Colby Lincoln Write-In Undervote Representative in Congress Ben Baker Write-In Undervote Representative in Congress Cheryl Simon Lois Koss Write-In Undervote Governor Dean Lindsey Don Etter Joe Carlton Edwin Lewis Samuel Lawton	2 1 8 18 3 1 5 <b>5th District</b> 3 5 <b>10th District</b> 3 7 0 0 0 0 1 3 3 3

Lieutenant Governor	
Scott Montes	8
Saul Currier	7
Arnold Krill	13
Write-In	2
Undervotes	0
Donnegentative in the Conseq.	A sample 92nd District
Representative in the General	
Harry Rider	13
Robert Tyrell	6
Write-In	1
Undervotes	0
Representative in the General	Ascembly 84rd District
Peter Valle	
	8
Write-In	1
Undervotes	1
Presidential Nomination Delega	ation
Gloria Dillion	16
Heather Heidelbaugh	9
Herbert Devine	15
George A. Fisk	7
Doris Shiddles	5
Andre Ninia	5
Brian Getz	8
Chad Snow	7
Diane Rubin	4
Elizabeth Piazza	4
Write-In	5
Undervotes	5
Judge of the Superior Court	
Richard Maxian	7
Marjorie Hall	6
Robert L. Linkey	15
Write-In	1
Undervotes	1
Judge of the Commonwealth C	lourt
Chris Carpenter	25
Write-In	1
Undervotes	4
Judge of the Court of Common	
Mary L. Daniel	21
John Roy	7
Jack "Duke" Brodisky	19
Jon Young	3
Vic Stabile	4
Write-In	2
Undervotes	4
County Chief Executive	
Norman Powers	18
Sandra Reilly	12
Write-In	0
Undervotes	0
Undervotes	U
School Director Region 6	
Gerald Danson	16
Greg Ortiz	13
Shlomo Archibald	20
Delores DeVan	7
Write-In	1
Undervotes	3
Commissioner Seat 1 REP	

Stephen Harrick	8
	8
Write-In	1
Undervotes	1
Commissioner Seat 2 RI	EP
Steve West	8
Write-In	1
Undervotes	1
	1
Commissioner Seat 3 RI	<b>TP</b>
William Malicki	8
Gary Klemann	2
Write-In	0
Undervotes	0
Undervotes	U
Referendum A REP	
Yes	18
No	9
Undervote	3
Undervote	5
<b>Cumulative Total</b>	s DEM:
President of the United	States
Barry Josey	11
Calvin Marino	15
Write-In	15
Undervotes	1
United States Senator	
Oscar Draper	18
Carter McGaw	10
Write-In	2
Undervotes	0
	U
Representative in Congr	
Barbara Barret Hicks	13
Clinton Testo	5
Write-In	2
Undervotes	0
Donnocontativo in Cara-	age 10th District
Representative in Congr	
William Sullivan	9
Write-In	0
Undervotes	1
Governor	
Charles Jasen	16
Shirley Henning	10
Write-In	3
	5

Write-In	3
Undervotes	1
Lieutenant Governor	
Sherman R. Bucher	7
Richard V. Suits	3
Tabathia Song	5
Kenneth Interlicchio	14
Write-In	1
Undervotes	0
Representative in the Generative	al Assembly 83rd District
R. J. Abbott	12
Peter F. Saxton	6
Write-In	1
Undervotes	1
Representative in the Generative	al Assembly 84rd District
Neil Carey	7
Saul Currier	3

Write-In	0
Undervotes	0
Presidential Nomination Deleg	ation
Vincent Seymour	10
Toni Hamilton	17
Sam Patel	11
Robert Rocco	17
Renee Cohn Jubelrier	16
Morton Steele	13
Mary Burke	6
Mary Burke	
Nyda E. Hambin	4
Write-In	10
Undervotes	16
Judge of the Superior Court	
Judge of the Superior Court	
Linda Gapp	8
Patricia Smallmon	21
Write-In	1
Undervotes	0
Judge of the Commonwealth C	`ourt
Eugene Duff	
Eugene Ruff	19
Lewis Tese	11
Write-In	0
Undervotes	0
Judge of the Court of Common	n Diag
Judge of the Court of Common	
Joanne Shollzert	21
Kerry Jones	18
Steven Miller	10
Shirley Henning	6
Write-In	3
Undervotes	2
County Chief Executive	
Micheal Santarcangelo	20
Charles Place	9
Write-In	1
Undervotes	0
School Director Region 6	
Douglas Stone	8
Gerald Danson	19
Greg Ortiz	9
Shlomo Archibald	15
Delores DeVan	6
Write-In	
Undervotes	2
Chucivous	
a	
Commissioner Seat 1 DEM	
George Fisk	10
Write-In	0
Undervotes	0
Commissioner Seat 2 DEM	
Tetty Rogiers	9
Write-In	0
Undervotes	1
Undervotes	1
<b>Commissioner Seat 3 DEM</b>	
Arnold Wells	9
Write-In	1
Undervotes	0
Referendum A DEM	
Yes	15
No	11
Undervote	4

#### **Cumulative Totals Non Partisan:**

33 20 7

**Referendum A** Yes No Undervote

#### Election Definition: Pennsylvania Certification General Election

#### **General Election Description:**

A general election combining presidential year contests, non-presidential year contests, and municipal contests into a single election held in 3 precincts one of which is a split precinct on the "Representative in the General Assembly" contests. This election contains 21 contests compiled into 4 ballot styles (excluding language styles). 15 of the contests are in all ballot styles. The other 6 are split between at least 2 of the precincts with a maximum of 21 different contests spread across the 3 precincts. All voting variations supported by the Commonwealth of Pennsylvania are defined in this election. The voting variations are as follows:

- Partisan contest
- Non-Partisan contest
- N of M contest
- Referendum contest
- Retention Contest
- Straight Party voting
- Write-In voting
- Split Precinct
- Cross-Party Nominated

This general election was designed to functionally test the handling of multiple ballot styles across geographical subdivisions, support for English and Spanish languages, support for all Pennsylvania voting variations, and audio support for English and Spanish.

#### **Configuration:**

# EMS computer loaded with software certified for use in Pennsylvania to create the following configuration:

Name: Pennsylvania Certification General Election Voting Devices: 1 machine for each precinct Precincts: Precinct 1, Precinct 2 split into 2a and 2b, Precinct 3 Parties: Republican, Democratic, Green, Libertarian Languages: English, Spanish Totals Contests: 21 Contests as follows:

Precinct 1	Precinct 2a	Precinct 2b	Precinct 3
	·	Straight Party	·
Republican			
Democratic			
Green			
Libertarian			
		e President of the United States	
		f One Party for President and Vice	e President
	or inse	rt the names of candidates	
James Collins Arthur Remus			

Republican	
Calvin Marino Keith Satterwhite Democratic	
John P. Defazio Louis Denn <i>Green</i>	
June Perkins David Heroux <i>Libertarian</i>	
Write-In	
Unit	ted States Senator
	Vote for One
Colby Lincoln <i>Republican</i>	
Oscar Draper Democratic	
Eric Sheely <i>Libertarian</i>	
Write-In	
Representative in Con 5 <sup>th</sup> District Vote for One	gress Representative in Congress 10 <sup>th</sup> District Vote for One
Ben Baker	
Republican	Lois Koss <i>Republican</i>
Barbara Barrett Hicks Democratic	William Sullivan Democratic
Write-In	Write-In
	or/Lieutenant Governor Party for Governor and Lieutenant Governor
Joe Carlton	
Arnold Krill <i>Republican</i>	
Charles Jasen Kenneth Interlicchio <i>Democratic</i>	
Robert Marsh Theodore Kopp <i>Green</i>	
Write-In	
Representative in the General Assembly 83 <sup>rd</sup> District	Representative in the General Assembly
83 <sup>rd</sup> District Vote for One	Representative in the General Assembly 84 <sup>th</sup> District Vote for One
Harry Rider Republican	Peter Valle Republican
R. J. Abbott Democratic	Neil Carey Democratic

Derek Carlson Libertarian	Write-In	
Write-In		
	Judge of the Superior Court	
	Vote for One	
Robert L .Linkey <i>Republican</i>		
Patricia Smallmon		
Democratic		
Write-In		
	Judge of the Commonwealth Court	
	Vote for One	
Chris Carpenter Republican		
Eugene Ruff		
Democratic		
Write-In		
	Judge of the Court of Common Pleas Vote for Not More Than Two	
Mary L. Daniel		
Republican		
Jack "Duke" Brodisky <i>Republican</i>		
Joanne Schollzert Democratic		
Kerry Jones Democratic		
Write-In		
Write-In		
	County Chief Executive Four Year Term	
	Vote for One	
Norman Powers <i>Republican</i>		
Micheal Santarcangelo		
<i>Democratic</i> Write-In		
	October Constanting	
	County Controller Four Year Term Vote for One	
Paul M Bertel-Lincoln		
Republican		

Donna Berke Democratic		
Write-In		
wile-in		
	District Attornov	
	District Attorney Four Year Term	
	Vote for One	
Franklin Margo		
Republican		
Denold Llensley		
Donald Hensley Democratic		
Democratic		
Write-In		
	School Director	
	Region 6	
	Four Year Term Vote for Not More Than Two	
Gerald Danson		
Republican/Democra	tic	
Shlomo Archibald		
Republican/Democra	tic	
Write-In		
Muite In		
Write-In		
Commissioner	Commissioner	Commissioner
Seat 1	Seat 2	Seat 3
Four Year Term	Four Year Term	Four Year Term
Vote for One	Vote for One	Vote for One
Stephen Harrick	Steve West	William Malicki
Republican	Republican	Republican
George Fisk	Tetty Rogiers	Arnold Wells
Democratic	Democratic	Democratic
Democratic	Democratic	Democratic
Write-In	Write-In	Write-In
		-
	Statewide Referendum	
	Water and Sewer Improvements Bond Referendum	
Do you favor the incurring of i	ndahtadhaca by the Commanusalth of \$400,000,000 for sucres	and loops to municipalities and
	ndebtedness by the Commonwealth of \$400,000,000 for grants a Il labor, materials, necessary operational machinery and equipm	
easements plans and specific	ations, surveys, estimates of costs and revenues, prefeasibility	studies engineering and legal
	s necessary or incident to the acquisition, construction, improveme	
treatment system projects?	the drinking water system, storm water, nonpoint source projects,	
treatment system projects?		
treatment system projects? Yes		
Yes		
Yes	the drinking water system, storm water, nonpoint source projects,	
Yes		
Yes No	the drinking water system, storm water, nonpoint source projects, Retention of Tony Grzanich	
Yes No	the drinking water system, storm water, nonpoint source projects,	
Yes No	the drinking water system, storm water, nonpoint source projects, Retention of Tony Grzanich	

No			
	Retentio	n of Debbie Marks	
Shall Debbie Marks be retain	ined for an additional term as Ju	stice of the Supreme Court of the Co	ommonwealth of Pennsylvania?
Yes			
No			
Spanish Distrito electoral 1	Distrito electoral 2a	Distrito electoral 2b	Distrito electoral 3
		rtido íntegro	Distrito electoral 5
Republicano			
Demócrata			
Verde			
Libertario			
	Prosidente//ieczas	idente de los Estados Unidos	
	Vote para el candidato de un	partido para presidente y vicepreside	ente
	o inserte los no	ombres de los candidatos	
James Collins Arthur Remus			
Republicano			
Calvin Marino Keith Satterwhite			
Demócrata			
John P. Defazio Louis Denn			
Verde			
June Perkins			
David Heroux <i>Libertari</i> o			
Por escrito			
	Senador de	e los Estados Unidos	
	V	ote por uno	
Colby Lincoln <i>Republican</i> o			
Oscar Draper Demócrata			
Eric Sheely <i>Libertario</i>			
Por escrito			
	Representante en el Cong 5º Distrito	reso	Representante en el
	Vote por uno		Congreso 10.º Distrito
Ben Baker			Vote por uno
Republicano			Lois Koss

			Republicano
Barbara Barret Hicks Demócrata			William Sullivan Demócrata
Por escrito			Por escrito
	Gobernador/v Vote para el candidato de un partid	<b>icegobernador</b> o para gobernador y vicegoberna	dor
Joe Carlton Arnold Krill <i>Republicano</i>			
Charles Jasen Kenneth Interlicchio Demócrata			
Robert Marsh Theodore Kopp <i>Verde</i>			
Por escrito			
Representar	nte en la Asamblea General 83.º Distrito Vote por uno	84.° D	a Asamblea General Distrito Dor uno
Harry Rider <i>Republican</i> o		Peter Valle <i>Republicano</i>	
R. J. Abbott Demócrata		Neil Carey Demócrata	
Derek Carlson <i>Libertario</i>		Por escrito	
Por escrito			
		I orte suprema por uno	
Robert L. Linkey <i>Republicano</i>			
Patricia Smallmon Demócrata			
Por escrito			
		rte del estado por uno	
Chris Carpenter <i>Republicano</i>			
Eugene Ruff Demócrata			
Por escrito			
	Juez de la corte de No vote por	<b>primeras instancias</b> más de dos	
Mary L. Daniel			

Republicano	
Jack "Duke" Brodisky <i>Republican</i> o	
Joanne Schollzert Demócrata	
Kerry Jones Demócrata	
Por escrito	
Por escrito	
	Jefe principal del condado Término de cuatro años
	Vote por uno
Norman Powers <i>Republicano</i>	
Micheal Santarcangelo Demócrata	
Por escrito	
	Contralor del condado
	Término de cuatro años Vote por uno
Paul M Bertel-Lincoln <i>Republicano</i>	
Donna Berke Demócrata	
Por escrito	
	Procurador del distrito Término de cuatro años Vote por uno
Franklin Margo <i>Republicano</i>	
Donald Hensley Demócrata	
Por escrito	
	Director de la escuela
	<b>Región 6</b> Término de cuatro años No vote por más de dos
Gerald Danson Republicano/Demócrata	
Shlomo Archibald Republicano/Demócrata	
Por escrito	
Por escrito	

Comisionado		1					60	minic	onado							Comi	siona	do	
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Por escrito		Pc	or esc	crito										F	or eso	crito			
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de previabilidad, servi																			
mejora, expansión, ex																ua pluv	viales,	proye	ctos
de recurso sin punto, o	créditos	de nu	utrien	tes y	proy	ectos	de s	istem	as de	tratar	niento	de a	guas r	negras	s?				
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No																			
					R	eten	ción	de T	ony G	rzani	ch								
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Sí																			
No																			
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Method for stranging	i party.																		
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Green			~						<u> </u>								<u> </u>		
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Libertarian			<u> </u>	<b>D</b>		A.C		l al d -	 		lite d C		<u> </u>	Х	l		L		
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Calvin Marino	1					Х						Х	Х		Х		Х		
Keith Satterwhite			1																
John P. Defazio							1	1		1	1	1	1	1			1		

Louis Denn																			
June Perkins							Х							Х					1
David Heroux																			
Write-In																		Х	
						Ur	nited	State	es Ser	nator									
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Oscar Draper						Х				Х	Х		Х	Х		Х	Х	Х	
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Derek Carlson	+-+-				~			Х			~			Х		-			+
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Chris Carpenter							Х	Х		Х			Х		Х				
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No	х	Х	Х	^	^	^	Х	Х	^	^	^	^	^	х	х	^	0	0	х	^
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Democratic				Х																
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James Collins Arthur Remus					Х	Х	Х				Х	Х				Х	Х	Х	Х	
Calvin Marino									Х				Х	Х						
Keith Satterwhite	L	L	L	L	L		L	L	L		L		L		L				L	
John P. Defazio																			T	
Louis Denn																			<u> </u>	
June Perkins								Х							Х			1		
David Heroux	<b> </b>		<b> </b>						<b> </b>				<b> </b>				<b> </b>		<b> </b>	
Write-In									01-1-											Х
Calby Lincoln					V		X	lited	State	es Ser		V	1	V	1	r	V	V	<u>1</u>	V
Colby Lincoln Oscar Draper					Х	Х	^		Х		Х	Х	х	Х			Х	Х	х	Х
Eric Sheely						^		х	^				^		х				^	
Write-In								~							~	Х				
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Ben Baker					X	X	X		X	l	X			Х	U	Х	Х	Х		
Barbara Barrett								Х				Х			-				Х	Х
Hicks																				
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Joe Carlton Arnold Krill					Х		Х	Х	Х			Х			U	Х	Х		Х	Х
Charles Jasen						Х					Х		Х					Х		
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Harry Rider					X	X			X					X		Х	Х	T		Х
R. J. Abbott							Х	İ			Х	Х	Х			İ	1	Х	Х	1
Derek Carlson								Х							Х					L
Write-In																				
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Robert L .Linkey						U	Х		Х			Х	Х	Х				Х	Х	Х
Patricia Smallmon					Х						Х				Х	Х	Х			
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Chris Carpenter					Х	Х	Х		Х		Х	Х		Х		Х	V	U	Х	
Eugene Ruff	<b> </b>		<b> </b>					Х	<b> </b>				Х		V		Х		<b> </b>	Х
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Mary L. Daniel	<u> </u>		<u> </u>		X	X	Х	Х	V		X U	<u> </u>	v	Х	X	X X		Х	Х	
Jack "Duke"					Х	Х			Х		U		Х		Х	^		1	1	
Brodisky			1	1	1	1	i i	1	1	i i	I	1	1		1	1	1	1	1	1
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Norman Powers					Х		Х	Х	Х			U	Х				Х	Х	Х	(	Х
Micheal						Х					Х				Х	Х					
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Paul M Bertel-					Х	Х		Х			Х			Х	U	Х		Х			U
Lincoln		-					V		V			V	V				v			,	
Donna Berke		-					Х		Х			Х	Х				Х		Х	·	
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Donald Hensley Write-In					^			^	^			^	^		Х		^	^	^	`	^
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Gerald Danson			r		Х	Х	X	X	X		X	X	U	1	Х	Х	Х		Х	(	Х
Shlomo Archibald					X	X	X	X	~		X	X	U		X	Ŭ	~	X	X		X
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Steve West					U		X		X		X	Х			Х		Х	Х	1	T	
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res	Х	Х	Х	X		X	Х											-			
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No Yes No Precinct 2b Republican Democratic Green Libertarian	Х В 1	X B 2	U B 3	Х В 4 Х	B 5 U Pres	B 6	<b>Rete</b> X B 7 U	B 8 8 Str U	B 9 aight U sider	B 10 B	B 11 /	іs X B 12 X	B 13	B 14 U	B 15	B 16	X           B           17           X           X	B 18	E	3 9	В 20 U
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No Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus	Х В 1	X B 2	U B 3	Х В 4 Х	B 5 U Pres	B 6	Rete X B 7 U	B 8 8 Str U	B 9 aight U sider	B 10 Party	B 11 /	іs X B 12 X	B 13	B 14 U	B 15	B 16	X           B           17           X           X	B 18	E	3 9	В 20 U
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No Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus	Х В 1	X B 2	U B 3	Х В 4 Х	B 5 U Pres	B 6	Rete X B 7 U	B 8 8 Str U	B 9 aight U sider	B 10 Party	B 11 /	B 12 X ited S	B 13	B 14 U	B 15 X	B 16	X           B           17           X           X	B 18	E	3 9	В 20 U
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Peter Valle					Х	Х		Х	Х		Х				Х	Х	Х		Х	
Neil Carey							Х					Х	Х					Х		Х
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Robert L. Linkey					Х		Х	Х			Х	Х	Х		Х	Х	Х	Х		
Patricia Smallmon						Х			Х					Х						Х
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Chris Carpenter						Х		Х	Х		Х		Х			Х	Х	U		Х
Eugene Ruff							Х					Х		Х					Х	
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Lincoln					Ŭ		~	~	~			~	~		~	~		~	~	~
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Donald Hensley					Х	Х	Х	Х	Х		~	Х	Х	~	Х	Х	~	Х	Х	Х
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Gerald Danson	<u> </u>				Х	Х	X	X	necu		X	X	U	Х	Х	Х		Х	Х	Х
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					Х	Х		X	X	ner Se	at 2 X	Х	Х		Х	Х	Х	Х	Х	v
Tetty Rogiers					X	X	X			ner Se		Х	Х	v	Х	Х	Х	X	X	X
					X	X	X	X	X		X	Х	Х	Х	Х	Х	Х	X	X	X
Tetty Rogiers Write-in						X	X	X	X de Re	her Se	X				X	Х	X	X	X	X
Tetty Rogiers Write-in Yes	X	X			X		X	X	X	eferen	X	X X	X X	X X						
Tetty Rogiers Write-in	 X	X	X	X		X	X Sta	X atewic X	X de Re X	eferen	X dum X	X			X	X  X	X	X X X	X X X	x
Tetty Rogiers Write-in Yes No			X		X	X	X Sta	X atewic X ntion	de Re X	eferen X ony Gr	X dum X	X	X		X	X	X		X	X
Tetty Rogiers Write-in Yes No Yes	X X	X		x		X	X Sta X Reter	X atewic X	X de Re X	eferen	dum X Z	X		Х				x		
Tetty Rogiers Write-in Yes No			x		X	X F X	X Sta X Reter	x atewic X ntion X	de Re X of To	eferen X ony Gi X	dum X rzanio X	X ch U	X		X	X	X		X	X
Tetty Rogiers Write-in Yes No Yes No		X	X	Х	X	X F X	X Sta X Reter	x atewic X ntion X	X de Re X of To X	eferen X ony Gr X ebbie	dum X Zanio X Mark	X ch U	X	X	X	X X	X	x	X	X X
Tetty Rogiers Write-in Yes No Yes No Yes	X				X	X F X	X Sta X Reter	X atewic X ntion X	de Re X of To	eferen X ony Gi X	dum X rzanio X	X ch U	X	Х	X	X	X	x	X	X
Tetty Rogiers Write-in Yes No Yes No		X	X	Х	X	X F X	X Sta X Reter	x atewic X ntion X	X de Re X of To X	eferen X ony Gr X ebbie	dum X Zanio X Mark	X ch U	X	X	X	X X	X	x	X	X X
Tetty Rogiers Write-in Yes No Yes No Yes	X	X	X	Х	X	X F X	X Sta X Reter	X atewic X ntion X	X de Re X of To X	eferen X ony Gr X ebbie	dum X Zanio X Mark	X ch U	X	X	X	X X	X	x	X	X X
Tetty Rogiers Write-in Yes No Yes No Yes No	X X	X	X	X	X X X	X F U	X Sta X Reter X Reter	X atewic X ntion X ntion	de Re X of To X of D	ebbie	dum X zanic X Mark X	X D U X	X X X	X X X	x x x	X X X	X X X	X X X	X X X	X X X
Tetty Rogiers Write-in Yes No Yes No Yes	X X B	X X B	X X B	XX	X X X B	X F X U	X Sta X Reter X Reter	X atewie X ntion X B	X     de Re     X     of To     X     of Do     X	eferen X ony Gr X ebbie X	dum X zanio X Mark X B	X D U X B	X X X B	X X X B	X X X B	X X X B	X X X B	X X X B	X X X B	X X X B
Tetty Rogiers Write-in Yes No Yes No Yes No	X X	X	X	X	X X X	X F U	X Sta X Reter X Reter	X atewie X ntion X B 8	X       de Re       X       of To       X       of Do       X       9	eferen X ebbie X B 10	dum X zanio X Mark X B 11	X D U X	X X X	X X X	x x x	X X X	X X X	X X X	X X X	X X X
Tetty Rogiers Write-in Yes No Yes No Yes No Precinct 3	X X B 1	X X B 2	X X B 3	X X B 4	X X X B 5	X F X U	X Sta X Reter X Reter	X atewid X ntion X B 8 8 Stra	X       de Re       X       of To       X       of Do       X       aight	eferen X ony Gr X ebbie X	X dum X zanio X Mark X B 11	X ch U (s X B 12	X X X B 13	X X X B	X X X B 15	X X X B	X X X B 17	X X X B 18	X X X B	X X X B 20
Tetty Rogiers Write-in Yes No Yes No Yes No Precinct 3 Republican	X X B	X X B	X X B	XX	X X X B	X F X U	X Sta X Reter X Reter	X atewie X ntion X B 8	X       de Re       X       of To       X       of Do       X       9	ebbie X ebbie X B 10 Party	dum X zanio X Mark X B 11	X D U X B	X X X B	X X X B	X X X B	X X X B	X X X B	X X X B	X X X B	X X X B
Tetty Rogiers Write-in Yes No Yes No Yes No Precinct 3 Republican Democratic	X X B 1	X X B 2	X X B 3	X X B 4	X X X B 5	X F X U	X Sta X Reter X Reter	X atewid X ntion X B 8 8 Stra	X       de Re       X       of To       X       of Do       X       aight	eferen X ebbie X B 10	X dum X zanio X Mark X B 11	X ch U (s X B 12	X X X B 13	X X X B 14	X X X B 15	X X X B 16	X X X B 17	X X X B 18	X X X B	X X X B 20
Tetty Rogiers Write-in Yes No Yes No Yes No Precinct 3 Republican	X X B 1	X X B 2	X X B 3	X X B 4	X X X B 5	X F X U	X Sta X Reter X Reter	X atewid X ntion X B 8 8 Stra	X       de Re       X       of To       X       of Do       X       aight	ebbie X ebbie X B 10 Party	X dum X zanio X Mark X B 11	X ch U (s X B 12	X X X B 13	X X X B	X X X B 15	X X X B	X X X B 17	X X X B 18	X X X B	X X X B 20

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James Collins		Siuen		X	X			X	X		Х		Х	Х		Х
Arthur Remus				^	^			~	^		^		^	^		^
Calvin Marino		Х					Х									
Keith Satterwhite							~									
John P. Defazio										Х		Х				
Louis Denn																
June Perkins			Х												Х	
David Heroux																
Write-In																
			Ur	nited	State	es Sen	ator									
Colby Lincoln		Х		Х			Х		Х	Х	Х	Х		Х		Х
Oscar Draper	Х				Х			Х					Х			
Eric Sheely			Х												Х	
Write-In																
		lepre				ngres		Dist		-						
Lois Koss	Х		Х	Х	Х		Х		Х	Х		Х		U	Х	Х
William Sullivan		Х						Х					Х			
Write-In											Х					
		-	overi		ieute	nant (		nor	-					1		
Joe Carlton Arnold Krill	х	Х		Х			Х				х		Х		х	
Charles Jasen	<u> </u>		Х					Х				<u> </u>	1	Х	1	Х
Kenneth				1	1						1		1		1	
Interlicchio			1	1	1						1		1	1	1	
Robert Marsh										Х		Х				
Theodore Kopp																
Write-In					Х				Х							
· · · · · ·	Repres	entati	ive in	the	Gene	ral As	semb	oly 84	rd Dis	trict						
Peter Valle	Х		Х	Х	Х		Х		Х		Х		U	Х		
Neil Carey		Х						Х		Х		Х			Х	
Write-In																Х
			Judg	e of t	he Su	uperio	or Cou	urt								
Robert L. Linkey	Х	Х		Х			Х	Х		Х		Х	Х	Х		Х
Patricia Smallmon			Х		Х						Х				Х	
Write-In									Х							
		Jud	ge of		Comr	nonw		Court					-		1	1
Chris Carpenter	Х			Х			Х		Х		Х	Х	V	Х	Х	Х
Eugene Ruff		Х	Х		Х			V		Х			Х			
Write-In								Х								
				L				DI	-							
Mamul Danial		Judg	e of t	the C	ourt	of Coi	nmor	n Plea	IS							V
Mary L. Daniel	X				ourt	of Coi	nmor	n Plea		V	U	X	X		X	X
Jack "Duke"	X X	Judg X	e of t	the C	ourt	of Coi	nmor	n Plea	x	Х	U U	X X	X X		X X	X X
Jack "Duke" Brodisky		X	x			of Coi										
Jack "Duke" Brodisky Joanne Schollzert				x	X	of Coi	X	x Plea		X				X		
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones		X	x					Х	X					X X		
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In		X	x	x	X	P U	X									
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones		X	X X	X X	X X	PU	X X	X X	X							
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In		X X	X X	X X unty	X X Chief	P	X X utive	X X	x		U	X		X		×
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers		X	X X Co	X X	X X	PU	X X	X	X	U			X		X	
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal		X X	X X	X X unty	X X Chief	PU	X X utive	X X	x		U	X		X		×
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers		X X	X X Co	X X unty	X X Chief	PU	X X utive	X	x	U	U	X	X	X	X	×
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo		X X	X X Co X	X X unty X	X X Chief X	PU	X X utive	X	x	U	U	X	X	X	X	×
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo		X X	X X Co X	X X unty X	X X Chief X	P U Exec	X X utive	X	x	U	U	X	X	X	X	×
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln		X X	X X Co X	X X unty X Cour	X X Chief X	P U Exec	x x utive x	X	x	U X	X	X	X X X	X	X X X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel-Lincoln Donna Berke I Donna Berke		X X	X X Co X	X X unty X Cour	X X Chief X	P U Exec	x x utive x	X	X X X	U	X	X	X X X	X	X X X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln			X X Co X	X X X X X Coun	Chief X Ty Cc	P U Exec	x x utive x er x	x x x	x	U X	X	X	X X X	X	X X X	X
Jack "Duke" Schollzert Brodisky Joanne Schollzert Kerry Jones Write-In Mrite-In Micheal Santarcangelo Write-in Paul M Bertel-Lincoln Donna Berke Mrite-In Schollzert Mrite-In			X           X           Co           X           U           U	X X X X X Coun	Chief X Ty Cc	P U Exec	utive X ker X	x x x	X X X	U X	X	X	X X X	X	X X X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel-Lincoln Donna Berke Write-In Franklin Margo			X X Co X	X X X X X County X Dist	Chief X X ty Cc	P U Exec	x x utive x er x	x x x	X X X	U X	X X	X X X	X X X		X X X	X
Jack "Duke" Schollzert			X           X           Co           X           U           U	X X X X X Coun	Chief X Ty Cc	P U Exec	utive X ker X	x x x	X X X X		X	X		X	X X X	X X X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel-Lincoln Donna Berke Write-In Franklin Margo				X x unty X Coun X Distr	Chief X Ty Cc rict A	P U F Exec	x x x x k y x x x x x	X X X X	X X X		X X	X X X			X X X	X X X
Jack "Duke" Schollzert Brodisky Joanne Schollzert Kerry Jones Write-In Mrite-In Mrite-In Powers Schollzert Micheal Santarcangelo Write-in Paul M Bertel-Lincoln Donna Berke Write-In Paul M Bertel-Lincoln Donna Herke Scholl Hensley Mrite-In Powers Paul M Bertel-Lincoln Donna Herke Scholl Hensley Scholl Hens			Co Co X X X	X x unty X Courn X Distr	X       X       Chief       X       Introduction       rict A       X       Introduction       X	P U Exec	x x utive x er x x x y x y x	X X X X	X X X X X	U X X	X X				X X X	X X X X
Jack "Duke" Schollzert Brodisky Joanne Schollzert Kerry Jones Write-In Mrite-In Morman Powers Schollzert Schollzert Micheal Schollzert Mrite-In Schollzert Paul M Bertel-Lincoln Donna Berke Write-In Mrite-In Schollzert Paul M Bertel-Lincoln Schollzert Mrite-In Mrite-In Mrite-In Schollzert Mrite-In			Co Co X X X X X X X X X	X X X X X County X Distr	Chief X Trict A Frict A	P U F Exec	x x x x er x x x x x x x x x x x x x x x	X X X X	X X X X X X		U X X X X					
Jack "Duke" Schollzert			Co Co X X X	X x unty X Courn X Distr	X       X       Chief       X       Introduction       Introduction       Introduction       Introduction       X       Introduction       X       Introduction       X       Introduction       X       Introduction       X       Introduction       Introl <t< td=""><td>P U F Exec</td><td>x x utive x er x x x y x y x</td><td>X X X X</td><td>X X X X X</td><td>U X X</td><td>X X X</td><td></td><td></td><td></td><td>X X X X</td><td>X X X X</td></t<>	P U F Exec	x x utive x er x x x y x y x	X X X X	X X X X X	U X X	X X X				X X X X	X X X X
Jack "Duke" Schollzert Brodisky Joanne Schollzert Kerry Jones Write-In Mrite-In Morman Powers Schollzert Schollzert Micheal Schollzert Mrite-In Schollzert Paul M Bertel-Lincoln Donna Berke Write-In Mrite-In Schollzert Paul M Bertel-Lincoln Schollzert Mrite-In Mrite-In Mrite-In Schollzert Mrite-In			Co Co X X X X X X X X X	X X X X X County X Distr	Chief X Trict A Frict A	P U F Exec	x x x x er x x x x x x x x x x x x x x x	X X X X	X X X X X X		U X X X X					

							Co	omm	issio	ner Se	eat 3									
William Malicki						Х	Х	Х				Х	Х		Х		Х	U	Х	
Arnold Wells					Х				Х					Х		Х				Х
Write-in											Х									
							Sta	atewi	de R	eferer	ndum									
Yes	Х				Х			Х		U		Х			Х				U	Х
No		Х	Х	Х		Х	Х		Х		Х		Х	Х		Х	Х	Х		
							Reter	ntion	of To	ony G	rzani	ch								
Yes	Х	Х	Х		Х	Х		Х		Х	Х	Х		Х	Х		Х		Х	Х
No				Х			Х		Х				Х			Х		Х		
							Rete	ntior	of D	ebbie	Mark	s								
Yes		Х		Х		Х		Х		Х	Х	Х	Х						Х	Х
No	Х		Х		Х		Х		Х					Х	Х	Х	Х	Х		

#### **Test Results:**

Test Results:	
Precinct 1:	
Straight Party	
Republican	3
Democratic	3
Green	0
Libertarian	2
Undervote	12
Childervote	12
President/Vice President of the	e United States
James Collins	
Arthur Remus	8
Calvin Marino	
Keith Satterwhite	8
John P .Defazio	
Louis Denn	0
June Perkins	
David Heroux	2
Write-In	1
Undervote	1
United States Senator	
Colby Lincoln	6
Oscar Draper	11
Eric Sheely	1
Write-In	2
Undervote	0
Representative in Congress Di	
Ben Baker	10
Barbara Barrett-Hicks	7
Write-In	2
Undervote	1
Governor/Lieutenant Governo Joe Carlton	or
	12
Arnold Krill	12
Charles Jasen	7
Kenneth Interlicchio	7
Robert Marsh	0
Theodore Kopp	0
Write-In	1
Undervote	0
Representative in the General	Assembly District 83
Harry Rider	8
R.J. Abbott	8 7
Derek Carlson	2
Write-In	3
Undervote	0
	0

Judge of Superior Court	
Robert L. Linkey	7
Patricia Smallmon	11
Write-In	1
Undervote	1
Judge of the Commonwealth (	Court
Chris Carpenter	8
Eugene Ruff	9
Write-In	3
Undervote	0
Judge of the Court of Commo	
Mary L. Daniel	11
Jack "Duke" Brodisky	10
Joanne Scholzert	9
Kerry jones	7
Write-In	2
Undervote	1
<b>County Chief Executive</b>	
Norman Powers	8
Micheal Santarcangelo	9
Write-In	2
Undervote	1
County Controller	
Paul M. Bertel-Lincoln	8
Donna Berke	8
Write-In	2
Undervote	2
District Attorney	
Franklin Margo	9
Donald Hensley	8
Write-In	3
Undervote	0
School Director Region 6	
Gerald Danson	15
Shlomo Archibald	14
Write-In	7
Undervote	4
Commissioner Seat 1	
Stephen Harrick	13
George Fisk	6
Write-In	1
Undervote	0
Statewide Referendum	
Yes	6
No	12
Undervote	2
<b>Retention of Tony Grzanich</b>	
Yes	11
No	8
Undervote	1
Retention of Debbie Marks	
Yes	11
No	7
Undervote	2
Precinct 2a:	
Straight Party	
Republican	4
Democratic	1

Green	0
Libertarian	2
Undervote	13
Olidervole	15
President/Vice President of	f the United States
James Collins	
Arthur Remus	13
Calvin Marino	
	4
Keith Satterwhite	4
John P. Defazio	
Louis Denn	0
June Perkins	
David Heroux	2
Write-In	1
Undervote	0
United States Senator	
	12
Colby Lincoln	
Oscar Draper	5
Eric Sheely	2
Write-In	1
Undervote	0
	~
<b>D</b>	
Representative in Congress	
Ben Baker	13
Barbara Barrett-Hicks	5
Write-In	1
Undervote	1
Undervote	1
~ ~ ~ ~ ~ ~	
Governor/Lieutenant Gove	ernor
Joe Carlton	
Arnold Krill	13
Charles Jasen	
	-
Kenneth Interlicchio	5
Robert Marsh	
Theodore Kopp	0
Write-In	1
Undervote	1
Representative in the Gene	eral Assembly District 83
Harry Rider	11
R.J. Abbott	7
Derek Carlson	2
Write-In	0
Undervote	0
Judge of Superior Court	
Robert L .Linkey	12
Patricia Smallmon	6
Write-In	1
Undervote	1
Judge of the Commonweal	th Court
Chris Carpenter	13
Eugene Ruff	5
Write-In	1
Undervote	1
Judge of the Court of Com	mon Place
Mary L. Daniel	13
Jack "Duke" Brodisky	9
Joanne Scholzert	7
Kerry jones	6
Write-In	4
Undervote	1
County Chief Executive	
Norman Powers	13
Micheal Santarcangelo	5
	1
Write-In	1

County Controller           Puil M. Bertel-Lincoln         11           Doma Berken         7           Witte. In         0           Undervore         2           District Attorney         -           Franklin Margo         9           Donald Hensley         10           Witte. In         1           Undervore         0           School Director Region 6         -           Gerald Danson         17           Shomo Archinald         15           Witte. In         5           Undervore         3           Commissioner Seat 2         -           Stew West         11           Undervore         2           Stew West         12           Undervore         2           Stewide Referendum         -           Yes         6           No         12           Undervore         2           Retention of Doubie Marks         -           Yes         15           No         4           Undervore         1           Vandervore         1           Precinet 2b:         -           Strai		
Paul M. Bertel-Lincoln         11           Donna Berke         7           Witte-In         0           Undervore         2           District Attorney         -           Franklin Margo         9           Donald Hensity         10           Witte-In         1           Undervore         0           School Director Region 6         -           Genald Danson         17           Shilom Achibald         15           Witte-In         5           Undervore         3           Commissioner Seat 2         -           Steve West         11           Tetty Rogies         6           Wite-In         1           Undervore         2           Statevide Referendum         -           Yes         6           No         12           Undervore         2           Retention of Tony Grzanich         -           Yes         15           No         3           Undervore         2           Retention of Debbie Marks         -           Yes         15           No         3	Idervote	1
Paul M. Berdel-Lincoln         11           Donna Berke         7           Write-In         0           Undervore         2           District Attorney         -           Franklin Margo         9           Donald Hensity         10           Write-In         1           Undervore         0           School Director Region 6         -           Genald Danson         17           Sklomo Archibald         15           Write-In         5           Undervore         3           Commissioner Seat 2         -           Steve West         11           Tetry Kogiers         6           Write-In         1           Undervore         2           Statevide Referendum         -           Yes         6           No         12           Undervore         2           Retention of Tony Grzanich         -           Yes         15           No         3           Undervore         2           Retention of Debbie Marks         -           Yes         15           No         3	ounty Controller	
Write-In         0           Undervore         2           District Attorney         -           Franklin Margo         9           Donald Hensley         10           Write-In         1           Undervore         0           School Director Region 6         -           Gerald Damson         17           Shlomo Archibald         15           Write-In         5           Undervore         3           Commissioner Seat 2         -           Steve West         11           Tetty Rogiers         6           No         12           Undervore         2           Statevide Referendum         -           Yes         6           No         12           Undervore         2           Retention of Tony Grzanich         -           Yes         15           No         3           Undervore         2           Retention of Debbie Marks           Yes         15           No         3           Undervore         1           Precinet 2b:         -           Straight Party		11
Undervoite         2           Pistrict Attorney         Franklin Margo         9           Donald Hensley         10         Wite-In         1           Undervoite         0         School Director Region 6         Gerald Danson         17           Gerald Danson         17         School Director Region 6         Gerald Danson         17           Skhom Archholad         15         Wite-In         5         Gerald Danson         16           Vinte-In         5         Gerald Danson         6         Gerald Danson         17           Sthom Archholad         15         Wite-In         5         Gerald Danson         10           Undervoite         3         Gerald Danson         10         Gerald Danson         10           Undervoite         2         Stew West         11         Gerald Danson         10           Undervoite         2         Gerald Danson         10         Gerald Danson         10           Undervoite         2         Stewide Referendum         Yes         10         10           Undervoite         2         Gerald Danson         10         10         10           Undervoite         1         10         10         10		
Pistrict Attorney         Pranktin Margo         9           Franktin Margo         1           Undervote         0           Witte In         1           Undervote         0           School Director Region 6         -           Gerald Dason         17           Shlomo Archibald         15           Write In         5           Undervote         3           Commissioner Seat 2         -           Statewide Referendum         -           Yes         6           No         12           Undervote         2           Statewide Referendum         -           Yes         6           No         12           Undervote         2           Retention of Tony Grzanich         -           Yes         15           No         3           Undervote         2           Retention of Debie Marks         -           Yes         15           No         3           Undervote         1           Democranic         4           Green         3           Undervote         1		
Franklin Margo       9         Donald Hensley       10         Write-In       1         Undervote       0         School Director Region 6       -         Gerald Danson       17         Shlomo Archibald       15         Write-In       5         Undervote       3         Commissioner Sent 2       -         Steve West       11         Tetty Rogiers       6         Write-In       1         Undervote       2         Statewide Referendum       -         Yes       6         No       12         Undervote       2         Retention of Tony Grzanich       -         Yes       15         No       3         Undervote       2         Retention of Debbie Marks       -         Yes       15         No       4         Undervote       1         Precinct 2b:       -         Straight Party       -         Republican       1         Undervote       1         Precinct 2b:       -         Straight Party       -      <	ıdervote	2
Franklin Margo       9         Donald Hensley       10         Write-In       1         Undervote       0         School Director Region 6       -         Gerald Danson       17         Shlomo Archibald       15         Write-In       5         Undervote       3         Commissioner Sent 2       -         Steve West       11         Tetty Rogiers       6         Write-In       1         Undervote       2         Statewide Referendum       -         Yes       6         No       12         Undervote       2         Retention of Tony Grzanich       -         Yes       15         No       3         Undervote       2         Retention of Debbie Marks       -         Yes       15         No       4         Undervote       1         Precinct 2b:       -         Straight Party       -         Republican       1         Undervote       1         Precinct 2b:       -         Straight Party       -      <	strict Attorney	
Donald Hensley         10           Write.In         1           Undervore         0           School Director Region 6         .           Gerald Danson         17           Shlomo Archibal         15           Write.In         5           Undervote         3           Commissioner Seat 2         .           Steve West         11           Tetty Rogiers         6           Write.In         1           Undervote         2           Statewide Referendum         .           Yes         6           No         12           Undervote         2           Retention of Tony Grzanich         .           Yes         15           No         3           Undervote         2           Retention of Dobbie Marks         .           Yes         15           No         3           Undervote         2           Retention of Dobbie Marks         .           Yes         15           No         4           Undervote         1           Democratic         4           Undervote		9
Write-In         1           Undervote         0           School Director Region 6	onald Hensley	
Undervote         0           School Director Region 6         17           Gerald Danson         17           Shlomo Archibald         15           Write-In         5           Undervote         3           Commissioner Scat 2	rite-In	
Geral Danson         17           Shlomo Archibald         15           Write-In         5           Undervote         3           Commissioner Seat 2		
Geral Danson         17           Shlomo Archibald         15           Write-In         5           Undervote         3           Commissioner Seat 2		
shlomo Archibald         15           Write-In         5           Undervote         3           Commissioner Seat 2		17
Write-In         5           Undervore         3           Commissioner Seat 2         -           Sterve West         1           Tetty Rogiers         6           Write-In         1           Undervore         2           Statewide Referendum         1           Yes         6           No         12           Undervore         2           Retention of Tony Grzanich         -           Yes         15           No         3           Undervore         2           Retention of Debbie Marks         -           Yes         15           No         3           Undervore         2           Retention of Debbie Marks         -           Yes         15           No         4           Undervore         1           Democratic         4           Green         3           Libertarian         1           Democratic         4           Green         3           Libertarian         1           Undervore         1           Undervore         1      <		
Undervote         3           Commissioner Seat 2         11           Sterew West         1           Tetty Rogiers         6           Write-In         1           Undervote         2           Statewide Referendum         -           Yes         6           No         12           Undervote         2           Retention of Tony Grzanich         -           Yes         15           No         3           Undervote         2           Retention of Debbie Marks         -           Yes         15           No         3           Undervote         2           Retention of Debbie Marks         -           Yes         15           No         4           Undervote         1           Precinct 2b:         -           Straight Party         -           Republican         1           Democratic         4           Green         3           Libertarian         1           Undervote         1           Democratic         4           Green         3 </td <td></td> <td></td>		
Commissioner Seat 2           Steve West         1           Tetty Rogiers         6           Write-In         1           Undervote         2           Statewide Referendum         -           Yes         6           No         12           Undervote         2           Retention of Tony Grzanich         -           Yes         15           No         3           Undervote         2           Retention of Debbie Marks         -           Yes         15           No         4           Undervote         1           Precinct 2b:         -           Straight Party         -           Republican         1           Democratic         4           Green         3           Libertarian         1           Undervote         1           President/Vice President of the United States           James Collins         -           Arthur Remus         10           Calvin Marino         -           Keith Statter-White         7		
Steev West         11           Tetty Rogiers         6           Write-In         1           Undervote         2           Statewide Referendum         2           Yes         6           No         12           Undervote         2           Retention of Tony Grzanich         2           Yes         15           No         3           Undervote         2           Retention of Debbie Marks         2           Yes         15           No         3           Undervote         2           Precinct Obebbie Marks         2           Yes         15           No         4           Undervote         1           Precinct 2b:	idervote	3
Tetty Rogiers         6           Write-In         1           Undervote         2           Statewide Referendum         -           Yes         6           No         12           Undervote         2           Retention of Tony Grzanich         -           Yes         15           No         3           Undervote         2           Retention of Debbie Marks         -           Yes         15           No         3           Undervote         2           Retention of Debbie Marks         -           Yes         15           No         4           Undervote         1           Precinct 2b:         -           Straight Party         -           Republica         1           Democratic         4           Green         3           Libertarian         1           Undervote         11           President/Vice President of the United States           Jamets Collins         -           Arthur Remus         10           Calvin Marino         -           Keith Statterwhite </td <td></td> <td></td>		
Write-In         1           Undervote         2           Statewide Referendum            Yes         6           No         12           Undervote         2           Retention of Tony Grzanich            Yes         15           No         3           Undervote         2           Retention of Debbie Marks         2           Yes         15           No         3           Undervote         2           Retention of Debbie Marks         2           Yes         15           No         4           Undervote         1           Precinct 2b:         Straight Party           Republican         1           Democratic         4           Green         3           Libertarian         1           Undervote         11           President/Vice President of the United States           James Collins         7           John P. Defazio         7	eve West	11
Write-In1Undervote2Statewide ReferendumYes6No12Undervote2Retention of Tony GrzanichYes15No3Undervote2Retention of Debbie MarksYes15No4Undervote1Precinct 2b: Straight PartyRepublican1Democratic4Green3Libertarian1Undervote1Precinct 2b: Straight PartyRepublican1Democratic4Anner Remus10Calvin Marino7Keith Satterwhite7		6
Statewide Referendum           Yes         6           No         12           Undervote         2           Retention of Tony Grzanich           Yes         15           No         3           Undervote         2           Retention of Debbie Marks           Yes         15           No         4           Undervote         1           Precinct 2b:         Straight Party           Republican         1           Democratic         4           Green         3           Libertarian         1           Undervote         11           President/Vice President of the United States           James Collins         10           Calvin Marino         10           Calvin Marino         7           John P. Defazio         7	rite-In	
Yes       6         No       12         Undervote       2         Retention of Tony Grzanich       -         Yes       15         No       3         Undervote       2         Retention of Debbie Marks       -         Yes       15         No       3         Undervote       2         Retention of Debbie Marks       -         Yes       15         No       4         Undervote       1         Precinet 2b:       -         Straight Party       -         Republican       1         Democratic       4         Green       3         Libertarian       1         Undervote       11         President/Vice President of the United States         James Collins       -         Arthur Remus       10         Calvin Marino       -         Keith Satterwhite       7         John P. Defazio       -	ıdervote	2
Yes       6         No       12         Undervote       2         Retention of Tony Grzanich       -         Yes       15         No       3         Undervote       2         Retention of Debbie Marks       -         Yes       15         No       3         Undervote       2         Retention of Debbie Marks       -         Yes       15         No       4         Undervote       1         Precinet 2b:       -         Straight Party       -         Republican       1         Democratic       4         Green       3         Libertarian       1         Undervote       11         President/Vice President of the United States         James Collins       -         Arthur Remus       10         Calvin Marino       -         Keith Satterwhite       7         John P. Defazio       -	atewide Referendum	
No12Undervote2Retention of Tony Grzanich Yes15No3Undervote2Retention of Debbie Marks Yes15No4Undervote1Precinct 2b: Straight Party Republican1Democratic4Green3Libertarian1Undervote11President/Vice President of the United States James Collins Arthur Remus10Calvin Marino Keith Satterwhite7John P. Defazio7		6
Undervote2Retention of Tony Grzanich Yes15No3Undervote2Retention of Debbie Marks Yes15Yes15No4Undervote1Precinct 2b: Straight Party RepublicanRepublican1Democratic4Green3Libertarian1Undervote11President of the United StatesJames Collins Arthur Remus10Calvin Marino1Calvin Marino7Keith Satterwhite7		
Retention of Tony Grzanich         Yes       15         No       3         Undervote       2         Retention of Debbie Marks		
Yes       15         No       3         Undervote       2         Retention of Debbie Marks         Yes       15         No       4         Undervote       1         Precinct 2b: Straight Party         Republican       1         Democratic       4         Green       3         Libertarian       1         Undervote       11         President/Vice President of the United States         James Collins       10         Calvin Marino       10         Keith Satterwhite       7         John P. Defazio       7	ldervote	2
No       3         Undervote       2         Retention of Debbie Marks	etention of Tony Grzanich	
Undervote       2         Retention of Debbie Marks		
Retention of Debbie Marks         Yes       15         No       4         Undervote       1         Precinct 2b:         Straight Party         Republican       1         Democratic       4         Green       3         Libertarian       1         Undervote       11         President/Vice President of the United States         James Collins       10         Arthur Remus       10         Calvin Marino       7         John P. Defazio       7		
Yes       15         No       4         Undervote       1         Precinct 2b:       1         Straight Party       Fepublican         Republican       1         Democratic       4         Green       3         Libertarian       1         Undervote       11         President/Vice President of the United States         James Collins       10         Arthur Remus       10         Calvin Marino       7         John P. Defazio       7	idervote	2
Yes15No4Undervote1Precinct 2b:Straight PartyRepublican1Democratic4Green3Libertarian1Undervote11President/Vice President of the United StatesJames Collins10Arthur Remus10Calvin Marino7Keith Satterwhite7John P. Defazio7	etention of Debbie Marks	
No       4         Undervote       1         Precinct 2b:         Straight Party         Republican       1         Democratic       4         Green       3         Libertarian       1         Undervote       11         President/Vice President of the United States         James Collins       10         Arthur Remus       10         Calvin Marino       7         John P. Defazio       7		15
Undervote       1         Precinct 2b:		
Straight PartyRepublican1Democratic4Green3Libertarian1Undervote11President/Vice President of the United StatesJames Collins4Arthur Remus10Calvin Marino7John P. Defazio7		
Straight PartyRepublican1Democratic4Green3Libertarian1Undervote11President/Vice President of the United StatesJames Collins10Arthur Remus10Calvin Marino7Keith Satterwhite7John P. Defazio10		
Straight PartyRepublican1Democratic4Green3Libertarian1Undervote11President/Vice President of the United StatesJames Collins10Arthur Remus10Calvin Marino7John P. Defazio7	ecinct 2h:	
Republican1Democratic4Green3Libertarian1Undervote11President/Vice President of the United StatesJames Collins.Arthur Remus10Calvin Marino.Keith Satterwhite7John P. Defazio.		
Democratic       4         Green       3         Libertarian       1         Undervote       11         President/Vice President of the United States         James Collins       Arthur Remus         Arthur Remus       10         Calvin Marino       Keith Satterwhite         Keith Satterwhite       7         John P. Defazio       7	epublican	1
Green3Libertarian1Undervote11President/Vice President of the United StatesJames Collins		
Libertarian       1         Undervote       11         President/Vice President of the United States         James Collins       James Collins         Arthur Remus       10         Calvin Marino       Keith Satterwhite         Keith Satterwhite       7         John P. Defazio       Vertice		
Undervote11President/Vice President of the United StatesJames CollinsArthur Remus10Calvin MarinoKeith Satterwhite7John P. Defazio		
James Collins Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio	idervote	
James Collins Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio	esident/Vice President of the	United States
Arthur Remus10Calvin MarinoKeith Satterwhite7John P. Defazio		
Calvin Marino Keith Satterwhite 7 John P. Defazio	thur Remus	10
Keith Satterwhite7John P. Defazio		••
John P. Defazio		7
Louis Denn 2		2
June Perkins		-
David Heroux 1		1
Write-In 0		
Undervote 0		
United States Sanatan		
United States Senator		11
Colby Lincoln 11		
Oscar Draper 6	car Draper	
Eric Sheely 1		
Write-In1Undervote1		
		1

Representative in Congress Di	strict 5
Ben Baker	8
Barbara Barrett-Hicks	10
Write-In	1
Undervote	1
Governor/Lieutenant Governo	
Joe Carlton	-
Arnold Krill	8
Charles Jasen	
Kenneth Interlicchio	8
Robert Marsh	
Theodore Kopp	3
Write-In	1
Undervote	0
Undervote	0
Representative in the General	A scenable District 94
Peter Valle	
	10 9
Neil Carey	
Write-In Undervote	1
Undervote	0
Index aff	
Judge of Superior Court	
Robert L. Linkey	11
Patricia Smallmon	8
Write-In	1
Undervote	0
	-
Judge of the Commonwealth (	
Chris Carpenter	9
Eugene Ruff	8
Write-In	2
Undervote	1
Judge of the Court of Common	
Mary L. Daniel	9
Jack "Duke" Brodisky	7
Joanne Scholzert	9
Kerry jones	8
Write-In	4
Undervote	3
County Chief Executive	
Norman Powers	10
Micheal Santarcangelo	8
Write-In	1
Undervote	1
County Controller	
Paul M. Bertel-Lincoln	11
Donna Berke	8
Write-In	0
Undervote	1
District Attorney	
Franklin Margo	4
Donald Hensley	16
Write-In	0
Undervote	0
School Director Region 6	
Gerald Danson	17
Shlomo Archibald	18
Write-In	2
Undervote	3
Commissioner Seat 2	
Steve West	13
Tetty Rogiers	6
Write-In	1
	·

Undervote	0
Statewide Referendum	
Yes	9
No	11
Undervote	0
<b>Retention of Tony Grzanich</b>	
Yes	14
No	5
Undervote	1
<b>Retention of Debbie Marks</b>	
Yes	13
No	6
Undervote	1
Olidervote	1
Precinct 3:	
Straight Party	
Republican	4
Democratic	1
Green	2
Libertarian	2
Undervote	11
President/Vice President of th	e United States
James Collins	
Arthur Remus	13
Calvin Marino	15
Keith Satterwhite	3
John P. Defazio	
Louis Denn	2
June Perkins	
David Heroux	2
Write-In	0
Undervote	0
United States Senator	
Colby Lincoln	13
Oscar Draper	5
Eric Sheely	2
Write-In	0
Undervote	0
Childer vote	
Representative in Congress D	istrict 10
Lois Koss	14
William Sullivan	4
Write-In	
Undervote	1
Undervoie	1
Governor/Lieutenant Govern	
	10
Joe Carlton	
Arnold Krill	11
Charles Jasen	
Kenneth Interlicchio	5
Robert Marsh	
Theodore Kopp	2
Write-In	2
Undervote	0
Representative in the General	Assembly District 84
Peter Valle	12
Neil Carey	6
Write-In	1
Undervote	1
Judge of Superior Court	
Robert L. Linkey	14
Patricia Smallmon	5
	د

Write-In	1
Undervote	0
Judge of the Commonwealth	Court
Chris Carpenter	13
Eugene Ruff	6
Write-In	1
Undervote	0
chacitote	
Judge of the Court of Commo	nn Pleas
Mary L. Daniel	9
Jack "Duke" Brodisky	14
Joanne Scholzert	6
Kerry jones	4
Write-In	3
Undervote	4
County Chief Executive	
Norman Powers	13
Micheal Santarcangelo	7
Write-In	0
Undervote	0
County Controller	
Paul M. Bertel-Lincoln	12
Donna Berke	5
Write-In	1
Undervote	$\frac{1}{2}$
Undervote	2
District Attornov	
District Attorney	0
Franklin Margo	9
Donald Hensley	9
Write-In	1
Undervote	1
School Director Region 6	
Gerald Danson	17
Shlomo Archibald	18
Write-In	2
Undervote	3
Commissioner Seat 3	
William Malicki	12
Arnold Wells	6
Write-In	1
Undervote	1
Undervole	1
Statewide Referendum	
Yes	6
No	12
Undervote	2
<b>Retention of Tony Grzanich</b>	
Yes	14
No	6
Undervote	0
<b>Retention of Debbie Marks</b>	
Yes	10
No	10
Undervote	0
	-
Cumulative Totals:	
Straight Party	
Republican	12
Democratic	9
Green	5
Libertarian	7

President/Vice President of the UnitJames CollinsArthur Remus44Calvin Marino44Calvin Marino100Keith Satterwhite22John P. Defazio100Louis Denn4June Perkins100David Heroux7Write-In2Undervote1United States Senator	ted States
James Collins Arthur Remus 44 Calvin Marino Keith Satterwhite 22 John P. Defazio Louis Denn 4 June Perkins David Heroux 7 Write-In 2 Undervote 1	
Arthur Remus44Calvin Marino22Keith Satterwhite22John P. Defazio4Louis Denn4June Perkins7David Heroux7Write-In2Undervote1	
Calvin MarinoKeith Satterwhite22John P. Defazio1Louis Denn4June Perkins1David Heroux7Write-In2Undervote1	
Keith Satterwhite22John P. Defazio4Louis Denn4June Perkins7David Heroux7Write-In2Undervote1	
John P. Defazio Louis Denn 4 June Perkins David Heroux 7 Write-In 2 Undervote 1	
Louis Denn4June PerkinsDavid Heroux7Write-In2Undervote1	
June PerkinsDavid Heroux7Write-In2Undervote1	
David Heroux7Write-In2Undervote1	
Write-In2Undervote1	
Undervote 1	
United States Service	
United States Senator	
Colby Lincoln 42	
Oscar Draper 27	
Eric Sheely 6	
Write-In 4	
Undervote 1	
Representative in Congress District	5
Ben Baker 31	-
Barbara Barrett-Hicks 22	
Write-In 4	
Undervote 3	
	10
<b>Representative in Congress District</b> Lois Koss 14	10
Write-In 1 Undervote 1	
Governor/Lieutenant Governor	
Joe Carlton	
Arnold Krill 44	
Charles Jasen	
Kenneth Interlicchio 25	
Robert Marsh	
Theodore Kopp 5	
Write-In 5	
Undervote 1	
Representative in the General Asser	mbly District 83
Harry Rider 19	
R.J. Abbott 14	
Derek Carlson 4	
Write-In 3	
Undervote 0	
Representative in the General Asser	mbly District 84
Peter Valle 22	
Neil Carey 15	
Write-In 2	
Undervote 1	
Judge of Superior Court	
Robert L. Linkey 44	
Patricia Smallmon 30	
Write-In 4	
Undervote 2	
Judge of the Commonwealth Court	
Chris Carpenter 43	
Eugene Ruff 28	
Write-In 7	
Undervote 2	
Judge of the Court of Common Plea	15
Mary L.Daniel 42	
Jack "Duke" Brodisky 40	

Joanne Scholzert	31
Kerry jones	25
Write-In	13
Undervote	9
County Chief Executive	
Norman Powers	44
Micheal Santarcangelo	29
Write-In	4
Undervote	3
Country Country II.org	
County Controller	12
Paul M. Bertel-Lincoln	42
Donna Berke	28
Write-In	3
Undervote	7
District Attorney	
Franklin Margo	31
Donald Hensley	43
Write-In	5
Undervote	1
School Director Region 6	
Gerald Danson	66
Shlomo Archibald	65
Write-In	16
Undervote	13
Commissioner Seat 1	
Stephen Harrick	13
George Fisk Write-In	6
Undervote	1 0
Undervote	0
Commissioner Seat 2	
Steve West	24
Tetty Rogiers	12
Write-In	2
Undervote	2
Commissioner Seat 3	
William Malicki	12
Arnold Wells	6
Write-In	1
Undervote	1
Statawida Doferendum	
Statewide Referendum	77
Yes	27 47
No Undervote	6
Retention of Tony Grzanich	54
Yes	54
No Undervote	22 4
Retention of Debbie Marks	10
Yes	49
No	27
Undervote	4

# **APPENDIX B - TEST CASES**

	.S. § 3031.7	(1) Provides for voting in absolute secrecy and prevents any person from
Requirement		seeing or knowing for whom any voter, except one who has received or i
1		receiving assistance as prescribed by law, has voted or is voting.
•	ive: To determine if a	e e
	out using an ADA device of	
observed dur vote has been	ing the act of voting, or o	
vote has been	cast.	marker is placed 12 feet (measured from the lowest point of the devices voting surface to the floor) directly behind the center of the
		voting device. From that marker, another marker is placed 12 fee
		to the right side and the left side. The side distance observation
		points should be approximately 17 feet. See Step 1000 for a layou
		diagram. The ADA voter will be positioned in the center of the
		tabulation device with a site line of 4 feet. See Step 1001.
Test Equipm		Standard 15+ foot tape measure
Special Proc	edural Requirements:	Two roles are required for this test case. An ADA Voter role and an
		observer role. The ADA voter will be positioned with a line of site at 4
		inches. The observation must be made by an individual between the
Assumptions	٠.	heights 68 inches and 71 inches. An election is loaded on the device and the polls are open, ready fo
Assumptions		An election is loaded on the device and the poils are open, ready to voting.
Step		Description
1000	L D	
	Layout Diagram:	Top View
		DRE
		,N X2,
		12'
		12'
	Verify all measurements.	12'
		tent is 12 feet and the side distance observation points are approximately 17 feet.
	Expected: Center measurem	
1001	<i>Expected:</i> Center measurem <i>Actual:</i> Measured 12 feet.	ent is 12 feet and the side distance observation points are approximately 17 feet.
1001	Expected: Center measurem	ent is 12 feet and the side distance observation points are approximately 17 feet.
1001	<i>Expected:</i> Center measurem <i>Actual:</i> Measured 12 feet.	ent is 12 feet and the side distance observation points are approximately 17 feet.
1001	<i>Expected:</i> Center measurem <i>Actual:</i> Measured 12 feet.	Side View
1001	<i>Expected:</i> Center measurem <i>Actual:</i> Measured 12 feet.	ent is 12 feet and the side distance observation points are approximately 17 feet.
1001	<i>Expected:</i> Center measurem <i>Actual:</i> Measured 12 feet.	Side View
1001	<i>Expected:</i> Center measurem <i>Actual:</i> Measured 12 feet.	ent is 12 feet and the side distance observation points are approximately 17 feet.

r	
	Verify all measurements.
	<i>Expected:</i> Center measurement is 12 feet and the side distance observation points are approximately 17 feet with a voter line of sight at 48 inches.
	Actual: Measured line of site at 48 inches.
1010	Observer Role - Activate a ballot for ADA voting.
	Expected: Ballot is presented and vote selections can be input.
	Actual: Ballot is presented and vote selections can be input.
1020	ADA Voter Role - Select the candidate corresponding to the upper most left hand position of the ballot presentation.
	Observer Role - Attempt to ascertain visually, the voters input from the right most position, the center position, and the left most position
	ADA Voters Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the upper most left hand position. All other selections are to be under voted.
	<i>Expected:</i> The Observer cannot determine the Voter's input selections.
	Actual: Observer reported no observations.
1030	ADA Voter Role - Select the candidate corresponding to the upper most right hand position of the ballot presentation.
	Observer Role - Attempt to ascertain, both audibly and visually, the voters input from the right most position, the center position, and the left most position
	ADA Voters Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the upper most right hand position. All other selections are to be under voted.
	<i>Expected:</i> The Observer cannot determine the Voter's input selections.
	Actual: Observer reported no observations.
1040	ADA Voter Role - Select the candidate corresponding to the lower most left hand position of the ballot presentation.
	Observer Role - Attempt to ascertain, both audibly and visually, the voters input from the right most position, the center position, and the left most position
	ADA Voters Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should

	be the lower most left hand position. All other selections are to be under voted.
	be the lower most left hand position. All other selections are to be under voted.
	<i>Expected:</i> The Observer cannot determine the Voter's input selections.
	Actual: Observer reported no observations.
1050	
	ADA Voter Role - Select the candidate corresponding to the lower most right hand position of the ballot
	presentation.
	Observer Role Attempt to ascertain, both audibly and visually, the voters input from the right most position,
	the center position, and the left most position
	ADA Voters Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should
	be the lower most right hand position. All other selections are to be under voted.
	<i>Expected:</i> The Observer cannot determine the Voter's input selections.
	Actual: Observer reported no observations.
Criteria for	Evaluation of the Test Results: The observer must not be able to determine the voter's
	om any observation position or any voter selection surface position.
selection Ir	on any observation position of any voter selection sufface position.

Test Case Id	entifier: 01 – 25 P.S. § 303	1.7(1) Voter Secrecy (Regular Voter)
	P.S. § 3031.7	(1) Provides for voting in absolute secrecy and prevents any person from
Requiremen	-	seeing or knowing for whom any voter, except one who has received or is
		receiving assistance as prescribed by law, has voted or is voting.
Test Object	ive: To determine if a v	voters <b>Test Configuration:</b> Precinct tabulation device configured as
•	n be observed during the a	с С
voting, or one	ce a vote has been cast.	procedures and or the device manufacturer. A marker is placed 12
		feet (measured from the lowest point of the devices voting surface
		to the floor) directly behind the center of the voting device. From
		that marker, another marker is placed 12 feet to the right side and the left side. The side distance observation points should be
		approximately 17 feet. See step 1000 for a layout diagram.
Test Equipn	nent:	Standard 15+ foot tape measure
	edural Requirements:	Two roles are required for this test case. A Voter role and an observer
1	1	role. The observation must be made by an individual between the heights
		of 5 feet 8 inches and 5 feet 11 inches.
Assumptions	5:	An election is loaded on the device and the polls are open, ready for
<u><u> </u></u>		voting.
Step 1000		Description
1000	Layout Diagram:	TopView
	Lujout Diugrunn.	Top View
		DRE
		< 12' 12'>
	Verify all measurements.	
	Expected: Center measureme	ent is 12 feet and the side distance observation points are approximately 17 feet.
	A studt Massure 1 10 feet	
	Actual: Measured 12 feet.	
1010		
1010	Observer Role - Activate a ba	llot for regular voting.
	<i>Expected:</i> Ballot is presented	and vote selections can be input.
	Actual: The ballot is presente	d and vote selections can be input.
1020	Voter Role - Select the candid	date in the upper most left hand position of the ballot presentation.
		• •
	Observer Role - Attempt to a center position, and the left m	scertain, both audibly and visually, the voters input from the right most position, the nost position
		d method to advance the ballot to a cast vote state. The only selection should be the . All other selections are to be under voted.

	<i>Expected:</i> The Observer cannot determine the Voter's input selections.
	Actual: Observer reported no observations.
1030	Voter Role - Select the candidate in the upper most right hand position of the ballot presentation.
	Observer Role - Attempt to ascertain, both audibly and visually, the voters input from the right most position, the center position, and the left most position
	Voters Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the upper most right hand position. All other selections are to be under voted.
	Expected: The Observer cannot determine the Voter's input selections.
	Actual: Observer reported no observations.
1040	Voter Role - Select the candidate in the lower most left hand position of the ballot presentation.
	Observer Role - Attempt to ascertain, both audibly and visually, the voters input from the right most position, the center position, and the left most position
	Voters Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the lower most left hand position. All other selections are to be under voted.
	Expected: The Observer cannot determine the Voter's input selections.
	Actual: Observer reported no observations.
1050	Voter Role - Select the candidate in the lower most right hand position of the ballot presentation.
	Observer Role - Attempt to ascertain, both audibly and visually, the voters input from the right most position, the center position, and the left most position
	Voters Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the lower most right hand position. All other selections are to be under voted.
	Expected: The Observer cannot determine the Voter's input selections.
	Actual: Observer reported no observations.
	• Evaluation of the Test Results: The observer must not be able to determine the voter's om any observation position or any voter selection surface position.

Test Case I	dentifier: 02 – 25 P.S. § 303	1.7(2) Selection of Candidates and Questions by Voter (Regular/ADA)
	P.S. § 3031.7	(2) Provides facilities for voting for such candidates as may be nominated
Requiremen	-	and upon such questions as may be submitted.
	tive: To determine if a vote select candidates and questi	
Test Equip	ment:	None
Special Pro	cedural Requirements:	None
Assumption	ns:	An election is loaded on the device and the polls are open, ready for voting.
Step		Description
1000	Activate a ballot for voting	
	<i>Expected:</i> The ballot is presen	nted and vote selections can be input.
	Actual: The Ballot was prese	ented.
1010	Select the first candidate in th	ne first partisan contest excluding a straight party contest.
		ation device displays or provides an indication of a vote selection for the first contest excluding a straight party contest.
	Actual: Selection was made f	or James Collins.
1020	_	advance the ballot to the first "N of M" contest. Select the first "N" candidates in r Two contest the first two candidates would be selected).
	_	ation device advances to the first "N of M" contest. Once selected the precinct provides an indication of a vote for the first "N" candidates in the first "N of M"
	Actual: Selections were made	e for Mary L. Daniel and Jack "Duke" Brodisky.
1030	Use the designated method to contest.	advance the ballot to the first "Question" contest. Select the "Yes" option in the
		ation device advances to the first "Question" contest. Once selected the precinct provides an indication of a vote selection for the "Yes" option in the first
	Actual: Selection was made of	of "Yes".
1040	Use the designated method to contest.	advance the ballot to the second "Question" contest. Select the "No" option in the
	_	ation device advances to the second "Question" contest. Once selected the precinct provides an indication of a vote selection for the "No" option in the second

	Actual: Selection was made for "No".
1050	Use the designated method to advance the "Ballot Review". Observe the "Ballot Review" to see if the above selections are displayed. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen. After review and ballot is cast successfully.
	Actual: Ballot was cast successfully for all selections.
1060	Repeat steps 1000- 1050 from above using an ADA input device.
	Expected:       Repeat 1000X         Repeat 1010X       Repeat 1020X         Repeat 1030X       Repeat 1040X         Repeat 1050X       Repeat 1050X
	Actual: All steps were successfully repeated was audio session.
1070	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed.
	Actual: The polls closed and report printed.
1080	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above.
	Actual: All selections were accurately reported on the results report.
	<b>r Evaluation of the Test Results:</b> The intended selections input above are recorded, stored, d as input by the tester.

PA ST 25 P.S. § 3031.7(3) Permits each voter, at other than primary elections, to vote a straight political party ticket by one mark or act and, by one mark or act, to vote for all the candidates of one political party for presidential electors and, by one mark or act, to vote for all the candidates of one political party for every office to be voted for, and every such mark or act shall be equivalent to and shall be counted as a vote for every candidate of the political party so marked including its candidates for presidential electors, except with respect to those offices as to which the voter has registered a vote for individual candidates of the same or another
<b>Requirements:</b> political party ticket by one mark or act and, by one mark or act, to vote for all the candidates of one political party for presidential electors and, by one mark or act, to vote for all the candidates of one political party for every office to be voted for, and every such mark or act shall be equivalent to and shall be counted as a vote for every candidate of the political party so marked including its candidates for presidential electors, except with respect to those offices as to which the voter has
for all the candidates of one political party for presidential electors and, by one mark or act, to vote for all the candidates of one political party for every office to be voted for, and every such mark or act shall be equivalent to and shall be counted as a vote for every candidate of the political party so marked including its candidates for presidential electors, except with respect to those offices as to which the voter has
by one mark or act, to vote for all the candidates of one political party for every office to be voted for, and every such mark or act shall be equivalent to and shall be counted as a vote for every candidate of the political party so marked including its candidates for presidential electors, except with respect to those offices as to which the voter has
every office to be voted for, and every such mark or act shall be equivalent to and shall be counted as a vote for every candidate of the political party so marked including its candidates for presidential electors, except with respect to those offices as to which the voter has
equivalent to and shall be counted as a vote for every candidate of the political party so marked including its candidates for presidential electors, except with respect to those offices as to which the voter has
political party so marked including its candidates for presidential electors, except with respect to those offices as to which the voter has
electors, except with respect to those offices as to which the voter has
political party or political body, in which case the automatic tabulating
equipment shall credit the vote for that office only for the candidate
individually so selected, notwithstanding the fact that the voter may not
have individually voted for the full number of candidates for that office
for which he was entitled to vote.
Test Objective: To determine if the voting Test Configuration: Precinct tabulation device configured as
system supports straight party voting and the described for normal election day operation by Pennsylvania
Pennsylvania Method. procedures and/or the device manufacturer.
Test Equipment:     None
Special Procedural Requirements: None
Assumptions: An election is loaded on the device and the polls are open, ready for
voting.
Step Description
1000
Activate a ballot for voting.
<i>Expected:</i> The ballot is presented and vote selections can be input.
Actual: The ballot was presented.
1010
Select the option for the first party selection of the straight party.
beleet me opnon for me mot party beleenon of me buarger party.
<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection for the first party
selection in the straight party contest.
selection in the straight party concest.
Actual: Republican was selected.
netwar. Republical was selected.
1020
Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contests
for the indication of a voter selection for all partisan candidates associated with the first straight party selection.
for the indication of a voter selection for an partisan candidates associated with the first straight party selection.
European de The environt televice device displace en envidee en indication of e este colorier for all the mertion
<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection for all the partisan
candidates in each contest associated with the first straight party selection.
Actual: All Republican candidates were selected.
1020
Use the designated method to advance through the remainder of the ballots advancing to the ballot review screen.
Observe the selection in the ballot review observing only the partisan contests associated with the first straight
party selections are present. Use the designated method to cast the voted ballot.
<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection for only the partisan contests associated with the first straight party selection. After review the ballot is cast successfully.

	Actual: All republican candidates were selected and under votes for non-partisan contests.			
1040	Activate a ballot for voting.			
	Expected: The ballot is presented and vote selections can be input.			
	Actual: The ballot was presented.			
1050	Select the option for the second party selection of the straight party.			
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection for the second party in the straight party contest.			
	Actual: Democrat was selected.			
1060	Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contests for an indication of a voter selection for all partisan candidates associated with the second straight party selection.			
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection for all the partisan candidates in each contest associated with the second straight party selection.			
	Actual: Democratic candidates were selected.			
1070	Use the designated method to retreat through the ballot selections to the first "N of M" contest. Select the first partisan candidate that is not the party associated with the second straight party selection. Leave the remainder of the selections under voted.			
	<i>Expected:</i> "N" candidates for the party of the second straight party selections should display or provide an indication of the non-selection. The selected candidate should be the only selection displayed or indicated.			
	Actual: Mary L. Daniel was selected and all other candidates were deselected.			
1080				
1000	Use the designated method to retreat through the ballot to the "Straight Party" contest. Observe the selection for the second straight party selection.			
	Expected: The second straight party selections should be displayed or an indication given as selected.			
	Actual: Democrat was selected.			
1090	Use the designated method to advance through the remainder of the ballot advancing to the ballot review. Review the selections in the ballot review to verify that the partisan contests associated with the second straight party selections are present with the exception of the first "N of M" contest. Use the designated method to cast the voted ballot.			
	Expected: The precinct tabulation device displays or indicates the selection for the partisan contests associated			

	with the second straight party selection for all contests except the first "N of M" contest. The first "N of M"
	contest displays or indicates the selection of the first candidate that is not associated with the second straight party selection. After review the ballot is cast successfully.
	Actual: The ballot review screen displayed the correct selections.
1100	Activate a ballot for voting.
	Expected: The ballot is presented and vote selections can be input.
	Actual: The ballot was displayed.
1110	Select the option for the first party selection of the straight party.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection for the first party in the straight party contest.
	Actual: Republican was selected.
1120	Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contests for an indication of a voter selection for all partisan candidates associated with the first straight party selection.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection for all the partisan candidates in each contest associated with the first straight party selection.
	Actual: All Republican candidates were selected.
1130	Use the designated method to retreat through the ballot selections to the first "N of M" contest. Select the first partisan candidate that is associated with the first straight party selection. Leave this contest and the remainder of the selections under voted.
	<i>Expected:</i> "N" candidates for the party of the first straight party selections should display or provide an indication of the non-selection. The selected candidate should be the only selection displayed or indicated.
	Actual: Mary L. Daniel was selected and all other candidates were deselected.
1140	Use the designated method to advance through the remainder of the ballot advancing to the ballot review. Review the selections in the ballot review to verify that the partisan contests associated with the first straight party selections are present with the exception of the first "N of M" contest. Use the designated method to cast the voted ballot.
	<i>Expected:</i> The precinct tabulation device displays or indicates the selection for the partisan contests associated with the first straight party selection for all contests except the first "N of M" contest. The first "N of M" contest displays or indicates the selection of the second candidate that is associated with the first straight party selection and an under vote. After review the ballot is cast successfully.
	Actual: All selections were indicated.
1150	Repeat steps 1000- 1150 from above using an ADA input device.

Expected: Repeat 1000X
Repeat 1010X
Repeat 1020X
Repeat 1030X
Repeat 1040X
Repeat 1050X
Repeat 1060X
Repeat 1070X
Repeat 1080X
Repeat 1090X
Repeat 1100X
Repeat 1110X
Repeat 1120X
Repeat 1130X
Repeat 1140X
Repeat 1150X
Actual: All steps were successfully repeated using the audio session.
1160
Close the polls and print the closed polls report tape.
Expected: The polls closed and a report is printed.
A study. The molle wave closed and results report printed
Actual: The polls were closed and results report printed.
1170
Review the closed polls report to ensure all selections input above are recorded and reported correctly.
Review the closed point report to ensure an selections input above are recorded and reported correctly.
Expected: The closed polls report presents the accumulated totals for the selections input above.
Expected. The closed poins report presents the accumulated totals for the selections input above.
Actual: All selections were accurately reported on the results report.
retual. The selections were accurately reported on the results report.
Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and
reported as input by the tester. The functionality of selecting a candidate of the same party or of a different party of
the straight party selection de-selects all candidates for the straight party vote.

selected from the nominees of any and all political parties, from the nominees of any and all political parties parts with the first parts period.         Test Equipment:         None         Assumptions:         Description         1000         Activate a ballot for voting         Expected: The ballot was presented and vote selections can be input.         Actual: The ballot was presented.         1010         Select the o	Fest Case Id	entifier: 04 – 25 P.S. § 303	1.7(4) Straight Party and Write-In	
Requirements:       selected from the nominees of any and all political parties, from the nominees of any and all political balls, and from any persons whose names are not in nomination and do not appear upon the official ball system supports straight party voting and write-in.         Test Objective: To determine if the voting system supports straight party voting and write-in.       Test Configuration: Precinct tabulation device configure described for normal election day operation by Pennsylv procedures and/or the device manufacturer.         Test Equipment:       None         Special Procedural Requirements:       None         An election is loaded on the device and the polls are open, ready for voting.         Step       Description         1000       Activate a ballot for voting         Expected: The ballot is presented and vote selections can be input.         Actual: The ballot was presented.         1010       Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan conte for a display or indication of a vote selection for all the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the part candidates in each contest associated with the first straight party			(4) Permits each voter, at other than primary elections, to vote a ticket	
Inomines of any and all political bodies, and from any persons whose are not in nomination and do not appear upon the official ball mass are not in nomination and do not appear upon the official ball mass are not in nomination and do not appear upon the official ball write-in.       Test Configuration: Precinct tabulation device configure described for normal election day operation by Pennsylv procedures and/or the device manufacturer.       Test Equipment: None       Special Procedural Requirements: None       Special Procedural Requirements: None       Step       Description       1000       Activate a ballot for voting       Expected: The ballot is presented and vote selections can be input.       Actual: The ballot was presented.       1010       Select the option for the first party selection of the straight party.       Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party selection of a vote selection for all partisan context. Observe all partisan context for a display or indication of a vote selection for all partisan context for a display or indication of a vote selection for all the part selection.       Lexpected: The precinct tabulation device displays or provides an indication of a vote selection for all the first straight party selection.       Lexpected: The precinct tabulation device displays or provides an indication of a vote selection for all the first straight party selection.       <	-		selected from the nominees of any and all political parties, from the	
Test Objective: To determine if the voting system supports straight party voting and write-in.       Test Configuration: Precinct tabulation device configure described for normal election day operation by Pennsylv procedures and/or the device manufacturer.         Test Equipment:       None         Special Procedural Requirements:       None         Assumptions:       An election is loaded on the device and the polls are open, ready for voting.         Step       Description         1000       Activate a ballot for voting         Expected: The ballot is presented and vote selections can be input.         Actual: The ballot was presented.         1010         Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party selection in the straight party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan conte for a display or indication of a voter selection for all partisan candidates associated with the first straight par selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the pa candidates in each contest associated with the first straight party selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the pa candidates in each contest associated with the first	-		nominees of any and all political bodies, and from any persons whose	
system supports straight party voting and write-in.       described for normal election day operation by Pennsyly procedures and/or the device manufacturer.         Test Equipment:       None         Special Procedural Requirements:       None         Assumptions:       An election is loaded on the device and the polls are open, ready for voting.         Step       Description         1000       Activate a ballot for voting         Expected: The ballot is presented and vote selections can be input.         Actual: The ballot was presented.         1010         Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party selection.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030			names are not in nomination and do not appear upon the official ballot.	
write-in.       procedures and/or the device manufacturer.         Test Equipment:       None         Special Procedural Requirements:       None         Assumptions:       An election is loaded on the device and the polls are open, ready for voting.         Step       Description         1000       Activate a ballot for voting         Expected:       The ballot is presented and vote selections can be input.         Actival:       The ballot was presented.         1010       Select the option for the first party selection of the straight party.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for the first particular selection.         Actual:       Republican was selected.         1020       Use the designated method to advance through the ballot to each partisan contest. Observe all partisan conte for a display or indication of a voter selection for all partisan contest.         Image: Section.       Expected: The precinct tabulation device displays or provides an indication of a vote selection for all partisan contest.         Image: Actual:       Republican was selected.         Image: Actual:       Republican candidates were selection.         Actual:       All Republican candidates were selected.         Image: Actual:       All Republican candidates were selected.	Fest Objectiv	ve: To determine if the votin	ng <b>Test Configuration:</b> Precinct tabulation device configured as	
Test Equipment:       None         Special Procedural Requirements:       None         Assumptions:       An election is loaded on the device and the polls are open, ready for voting.         Step       Description         1000       Activate a ballot for voting         Expected:       The ballot is presented and vote selections can be input.         Actual:       The ballot was presented.         1010       Select the option for the first party selection of the straight party.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for the first party selection in the straight party contest.         Actual:       Republican was selected.         1020       Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan contest for a display or indication of a voter selection for all partisan contest. Observe all partisan contest selection.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for all the pa candidates in each contest associated with the first straight party selection.         Actual:       All Republican candidates were selected.         1030       Actual:	system suppo	orts straight party voting and	described for normal election day operation by Pennsylvania	
Special Procedural Requirements:       None         Assumptions:       An election is loaded on the device and the polls are open, ready for voting.         Step       Description         1000       Activate a ballot for voting         Expected: The ballot is presented and vote selections can be input.         Actual: The ballot was presented.         1010         Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan conter for a display or indication of a vote selection for all the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all partisan conter for a display or indication of a voter selection for all partisan conter for a display or indication of a voter selection for all partisan candidates associated with the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the part andidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030	write-in.		procedures and/or the device manufacturer.	
Assumptions:       An election is loaded on the device and the polls are open, ready for voting.         Step       Description         1000       Activate a ballot for voting         Expected:       The ballot is presented and vote selections can be input.         Actual:       The ballot was presented.         1010       Select the option for the first party selection of the straight party.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for the first party contest.         Actual:       Republican was selected.         1020       Use the designated method to advance through the ballot to each partisan contest. Observe all partisan conter for a display or indication of a vote selection for all partisan candidates associated with the first straight part selection.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for all partisan context. Observe all partisan context for a display or indication of a voter selection for all partisan candidates associated with the first straight part selection.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for all the part candidates in each contest associated with the first straight party selection.         Actual:       All Republican candidates were selected.         1030       Image: The precinct advised as the selected.	<b>Fest Equipm</b>	nent:	None	
Step       Description         1000       Activate a ballot for voting         Expected: The ballot is presented and vote selections can be input.         Actual: The ballot was presented.         1010         Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first part selected.         1020         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan conter for a display or indication of a voter selection for all partisan context for a display or indication of a voter selection for all partisan context for a display or indication device displays or provides an indication of a vote selection for all the part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for a display or indication of a voter selection for all partisan context. Observe all partisan context for a display or indication of a voter selection for all partisan context associated with the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the part candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030	Special Proc	edural Requirements:	None	
Step       Description         1000       Activate a ballot for voting         Expected: The ballot is presented and vote selections can be input.         Actual: The ballot was presented.         1010         Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan context for a display or indication of a voter selection for all partisan candidates associated with the first straight par selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the pa candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030	Assumptions	5:	An election is loaded on the device and the polls are open, ready for	
<ul> <li>1000 Activate a ballot for voting <ul> <li><i>Expected</i>: The ballot is presented and vote selections can be input.</li> <li><i>Actual</i>: The ballot was presented.</li> </ul> </li> <li>1010 Select the option for the first party selection of the straight party. <ul> <li><i>Expected</i>: The precinct tabulation device displays or provides an indication of a vote selection for the first party selection in the straight party contest.</li> <li><i>Actual</i>: Republican was selected.</li> </ul> </li> <li>1020 Use the designated method to advance through the ballot to each partisan contest. Observe all partisan conterfor a display or indication of a voter selection for all partisan candidates associated with the first straight part selection.</li> <li><i>Expected</i>: The precinct tabulation device displays or provides an indication of a vote selection for all the particular each contest associated with the first straight party selection.</li> <li><i>Expected</i>: The precinct tabulation device displays or provides an indication of a vote selection for all the particular each contest associated with the first straight party selection.</li> <li><i>Actual</i>: All Republican candidates were selected.</li> </ul>			voting.	
Activate a ballot for voting         Expected: The ballot is presented and vote selections can be input.         Actual: The ballot was presented.         1010         Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the particular was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the part candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.	Step		Description	
Expected: The ballot is presented and vote selections can be input.         Actual: The ballot was presented.         1010         Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party selection in the straight party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the partisan candidates in each contest associated with the first straight part selection.         Actual: All Republican candidates were selected.         1030	1000			
Actual: The ballot was presented.         1010         Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party selection in the straight party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight par selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the particulates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030		Activate a ballot for voting		
Actual: The ballot was presented.         1010         Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party selection in the straight party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight par selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the particulates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030				
1010       Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party selection in the straight party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the part candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030		Expected: The ballot is presen	nted and vote selections can be input.	
1010       Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party selection in the straight party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan context for a display or indication of a voter selection for all partisan candidates associated with the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the part candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030				
Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the part selection.         Actual: All Republican candidates were selected.         1030		Actual: The ballot was present	nted.	
Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first part selection in the straight party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a vote selection for all partisan candidates associated with the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the part candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030				
Select the option for the first party selection of the straight party.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for the first part selection in the straight party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a vote selection for all partisan candidates associated with the first straight part selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the part candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030	1010			
Expected:       The precinct tabulation device displays or provides an indication of a vote selection for the first parselection in the straight party contest.         Actual:       Republican was selected.         1020       Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight parselection.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for all the particulation.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for all the particulation.         Actual:       All Republican candidates were selected.         1030       Image: Actual for the first straight party selection.	2020	Select the option for the first	party selection of the straight party.	
selection in the straight party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight par selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the par candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030		1		
selection in the straight party contest.         Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight par selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the par candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030		<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection for the first party		
Actual: Republican was selected.         1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight par selection.         Expected: The precinct tabulation device displays or provides an indication of a vote selection for all the par candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030				
1020       Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight par selection.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for all the partial candidates in each contest associated with the first straight party selection.         Actual:       All Republican candidates were selected.				
1020         Use the designated method to advance through the ballot to each partisan contest. Observe all partisan content for a display or indication of a voter selection for all partisan candidates associated with the first straight particular selection.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for all the particular candidates in each contest associated with the first straight party selection.         Actual:       All Republican candidates were selected.		Actual: Republican was selected.		
Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight particular selection.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for all the particulates in each contest associated with the first straight party selection.         Actual:       All Republican candidates were selected.				
Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contest for a display or indication of a voter selection for all partisan candidates associated with the first straight particular selection.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for all the particulates in each contest associated with the first straight party selection.         Actual:       All Republican candidates were selected.	1020			
selection.         Expected:       The precinct tabulation device displays or provides an indication of a vote selection for all the particulates in each contest associated with the first straight party selection.         Actual:       All Republican candidates were selected.         1030       Image: Selection for all the particulates were selected.		Use the designated method to	advance through the ballot to each partisan contest. Observe all partisan contests	
selection.         Expected:         The precinct tabulation device displays or provides an indication of a vote selection for all the pa candidates in each contest associated with the first straight party selection.         Actual:       All Republican candidates were selected.         1030		for a display or indication of a voter selection for all partisan candidates associated with the first straight party		
candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030				
candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030				
candidates in each contest associated with the first straight party selection.         Actual: All Republican candidates were selected.         1030		<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection for all the partisan		
1030				
1030				
		Actual: All Republican candidates were selected.		
	1030			
		Use the designated method to	advance through the remainder of the ballot advancing to the ballot review screen.	
Observe the selection in the ballot review observing only the partisan contests associated with the first straig		Observe the selection in the b	allot review observing only the partisan contests associated with the first straight	
party selections are present. Use the designated method to cast the voted ballot.				
Expected: The precinct tabulation device displays or provides an indication of the selection for only the particular		Expected: The precinct tabula	ation device displays or provides an indication of the selection for only the partisan	
contests associated with the first straight party selection. After review the ballot is cast successfully.		contests associated with the fi	irst straight party selection. After review the ballot is cast successfully.	
Actual: The ballot review screen displayed the selections for all republican candidates and no selection for n		Actual: The ballot review scr	een displayed the selections for all republican candidates and no selection for non-	
partisan contests.		partisan contests.		
1040	1040			
Activate a ballot for regular voting		Activate a ballot for regular v	oting	
Expected: The ballot is presented and vote selections can be input.		Expected: The ballot is presen	nted and vote selections can be input.	

	Actual: The ballot was presented.		
1050			
1050	Select the option for the first party selection of the straight party.		
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection associated with		
	the first party selection in the straight party contest.		
	Actual: Republican was selected.		
1060	Use the designated method to advance to the first partisan contest. Select the write-in option. Input John Doe as the write-in name.		
	<i>Expected:</i> The precinct tabulation advances to the first partisan contest and allows the input of the "Write-In" candidate John Doe.		
	Actual: John Doe was input as a write-in candidate for President of the United States.		
1070			
	Use the designated method to advance to the ballot review screen. Observe the selections associated with the first straight party selection with the exception of the first partian contest. Use the designated method to cast the voted ballot.		
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection associated with the first party selection in the straight party contest with the exception of the first partisan contest which should indicate the write-in input of John Doe.		
	<i>Actual:</i> Republican candidates in all partisan races were selected with the exception of John Doe as a write-in for President of the United States		
1080	Activate a ballot for regular voting		
	<i>Expected:</i> The ballot is presented and vote selections can be input.		
	Actual: The ballot was presented.		
1090	Select the option for the first party selection of the straight party.		
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection associated with the first party selection in the straight party contest.		
	Actual: Republican was selected.		
1100	Use the designated method to advance to the first "Question" contest. Select the "Yes" option. Attempt to over vote by selecting the "No" option. Observe the action of attempting to select the second option.		
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication.		
	<i>Actual:</i> The device toggled so test steps were executed to exercise overvote capture in the N of M race. Both were successful.		

1110			
	Repeat steps 1000- 1100 from above using an ADA input device.		
	Expected: Repeat 1000X		
	Repeat 1010X		
	Repeat 1020X		
	Repeat 1030X		
	Repeat 1040X		
	Repeat 1050X		
	Repeat 1060X		
	Repeat 1070X		
	Repeat 1080X		
	Repeat 1090X		
	Repeat 1100X		
	Actual: All steps were repeated using an audio session.		
1120			
	Close the polls and print the closed polls report tape.		
	Expected: The polls closed and a report is printed.		
	Actual: The polls were closed and the results report was printed.		
1130			
	Review the closed polls report to ensure all selections input above are recorded and reported correctly.		
	Expected: The closed polls report presents the accumulated totals for the selections input above.		
	Expected. The closed poils report presents the accumulated totals for the selections input above.		
	Actual: All selections were accurately reported on the results report.		
	<b>Criteria for Evaluation of the Test Results:</b> The intended selections input above are recorded, stored, and reported as input by the tester. The functionality of selecting a write-in candidate functions with a straight party selection.		

	P.S. § 3031.7		
system supp	<b>ive:</b> To determine if the voti orts the selection of a candid n candidate.	<b>Test Configuration:</b> (5) Permits e and any office for whom and for w vote, whether or not the name of su ballot as a candidate for nomination	hich he is lawfully entitled to uch person appears upon the
Fest Equip	nent:	one	
	cedural Requirements:	one	
Assumption		n election is loaded on the device and the ting.	he polls are open, ready for
Step		Description	
1000	Activate a ballot for voting.		
	<i>Expected:</i> The ballot is prese	and vote selections can be input.	
	Actual: The ballot was presented.		
1010	Select the option for the first	idate in the first partisan contest.	
	<ul><li><i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection for the first candidate selection in the first partisan contest.</li><li><i>Actual:</i> James Collins and Arthur Remus were selected for President of the United States.</li></ul>		
1020	Use the designated method to advance through the remainder of the ballot advancing to the ballot review screen. Observe the selection in the ballot review observing only the first candidate in the first partisan contest is selected. Use the designated method to cast the voted ballot.		
		device displays or provides an indication of n contests. After review the ballot is cast s	
	Actual: James Collins and A	Remus were the only selection displayed.	
1030	Activate a ballot for voting.		
	<i>Expected:</i> The ballot is prese	and vote selections can be input.	
	Actual: The ballot was presen		
1040	Select the option for a write-in candidate in the first partisan contest. Use the designed method to input "John Doe".		
	<i>Expected:</i> The precinct tabula candidate.	device displays or provides an indication of	of a vote selection for a write-in
	Actual: John Doe was input f	resident of the United States.	

1050	
1050	Use the designated method to advance through the remainder of the ballot advancing to the ballot review screen. Observe the selection in the ballot review observing only the write-in candidate in the first partisan contest is selected. Use the designated method to cast the voted ballot.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of the selection for only the write-in candidate "John Doe" in first partian contests. After review the ballot is cast successfully.
	Actual: John Doe was the only selection displayed.
1060	Activate a ballot for voting.
	<i>Expected:</i> The ballot is presented and vote selections can be input.
	Actual: The ballot was presented.
1070	Select the option for a write-in candidate in the first "N of M" contest. Use the designed method to input "John Doe" for all selections. Observe any activity to preclude the same input.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of a duplicate vote selection for a write-in candidate. If no indication is provided then trace the ability to adjudicate the vote through the entire system. It may require the EMS component to verify.
	Actual: John Doe and John Doe were input. It was traced through the EMS to adjudicate the duplicate inputs successfully.
1080	Repeat steps 1000- 1070 from above using an ADA input device.
	<i>Expected:</i> Repeat 1000X Repeat 1010X
	Repeat 1020X Repeat 1030X
	Repeat 1040X Repeat 1050X
	Repeat 1060X Repeat 1070X
	Actual: All steps were repeated using an audio session.
1090	Close the polls and print the closed polls report tape.
	Expected: The polls closed and a report is printed.
	Actual: The polls were closed and the results report printed.
1100	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	Expected: The closed polls report presents the accumulated totals for the selections input above.
	Actual: All selections were accurately reported on the results report.

**Criteria for Evaluation of the Test Results:** The intended selections input above are recorded, stored, and reported as input by the tester. The functionality of selecting a candidate and a write-in candidate functions.

Test Case Id	lentifier: 07– 25 P.S. § 3031	.7(7) Attempt to Over Vote Contests and Questions (Regular/ADA)	
PA ST 25 P.S. § 3031.7		(7) If it is of a type that registers the vote electronically, the voting system	
Requirements:		shall preclude each voter from voting for more persons for any office than	
		he is entitled to vote for or upon any question more than once.	
	ive: To determine if the v		
	vs over voting on contests		
questions		procedures and/or the device manufacturer.	
Equipment:		None	
	edural Requirements:	None	
Assumptions	S:	An election is loaded on the device and the polls are open, ready for	
<u>Star</u>		voting.	
Step 1000		Description	
1000	Activate a ballot for voting.		
	<i>Expected:</i> The ballot is presen	nted and vote selections can be input.	
	Actual: The ballot was present	nted.	
1010			
	Select the first candidate in the first partisan "1 of 1" contest excluding a straight party contest.		
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection for the first candidate in the first partian "1 of 1" contest excluding a straight party contest.		
	Actual: James Collins and Arthur Remus were selected for President of the United States.		
1020	~	candidate in the first partisan "1 of 1" contest ensure the contest is the same contest we the action of attempting to place a second vote.	
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication.		
	Actual: Calvin Marino and K	eith Satterwhite were selected. The device toggled between the selections.	
1030	Attempt to select the write-in	option. Observe the action of attempting to input a write-in.	
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication.		
	Actual: The device toggled.		
1040	-	advance the ballot to the first "N of M" contest. Select the first "N" candidates in Two contest the first two candidates would be selected).	
		ation device advances to the first "N of M" contest. Once selected, the precinct provides an indication of a vote for the first "N" candidates in the first "N of M"	
	Actual: Mary L. Daniel and J	ack "Duke" Brodisky were selected.	

1050	
1000	Attempt to select the "N +1" candidate in the first "N of M" contest ensure the contest is the same contest as voted in step 1030. Observe the action of attempting to place an over vote.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication.
	Actual: The device displayed an indication of an attempt to overvote.
1060	Use the designated method to advance the ballot to the first "Question" contest. Select the "Yes" option in the contest.
	<i>Expected:</i> The precinct tabulation device advances to the first "Question" contest. Once selected, the precinct tabulation device displays or provides an indication of a vote for the "Yes" option in the first "Question" contest.
	Actual: "Yes" was selected.
1070	Attempt to select the "No" option in the first "Question" contest ensure the contest is the same contest as voted in step 1050. Observe the action of attempting to place an over vote.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication.
	Actual: The device toggled between selections.
1080	Use the designated method to advance the "Ballot Review". Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen. After review and ballot is cast successfully.
	Actual: The selections were displayed correctly.
1090	Repeat steps 1000- 1080 from above using an ADA input device.
	Expected:       Repeat 1000X         Repeat 1010X       Repeat 1020X         Repeat 1030X       Repeat 1040X         Repeat 1050X       Repeat 1060X         Repeat 1070X       Repeat 1070X
	Repeat 1080X
1	
	Actual: All steps were repeated using an audio session.
1100	Actual: All steps were repeated using an audio session. Close the polls and print the closed polls report tape.

	Actual: The polls were closed and the results report printed.		
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.		
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above.		
	Actual: All selections were accurately reported on the results report.		
Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The attempts to select more persons than the vote for and any question more than once are unsuccessful.			

Test Case Id	<b>Fest Case Identifier:</b> 10 – 25 P.S. § 3031.7(10) Ballot Review and Change (Regular ADA)		
PA ST 25 P.S. § 3031.7		(10) If it is of a type that registers the vote electronically, the voting	
Requirements:		system shall permit each voter to change his vote for any candidate or	
		upon any question appearing on the official ballot up to the time that he	
		takes the final step to register his vote and to have his vote computed. If it is of a type that uses paper ballots or ballot cards to register the vote	
		and automatic tabulating equipment to compute such votes, the system	
		shall provide that a voter who spoils his ballot may obtain another ballot;	
		any ballot thus returned shall be immediately cancelled and at the close	
		of the polls shall be enclosed in an envelope marked "Spoiled" which shall be sealed and returned to the county board.	
	ive: To determine if the v		
	ws the voter to review		
	d change a vote selection b	efore procedures and/or the device manufacturer.	
cast of the ba		None	
Test Equipm	edural Requirements:	None	
Assumptions		An election is loaded on the device and the polls are open, ready for	
rissumption	•	voting.	
Step		Description	
1000		•	
	Activate a ballot for voting.		
	<i>Expected:</i> The ballot is presented and vote selections can be input.		
	Expected. The barlot is presented and vote selections can be input.		
	Actual: The ballot was presented.		
1010			
	Select the first candidate in the first all "1 of 1" contest excluding a straight party contest, the first "N" candidates in all "N of M" contests, and select the "Yes" option in all "Question" contests.		
	<i>Expected:</i> The precinct tabulation device allow for the navigation and the voting inputs to be selected as described above.		
	<i>Actual:</i> James Collins and Arthur Remus were selected for President of the United States. Mary L. Daniel and Jack "Duke' Brodisky were selected for Court of Common Pleas and "Yes" selected in all question contests.		
1020			
	Use the designated method to advance the "Ballot Review". Observe the "Ballot Review" to see if the above selections are indicated.		
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen. The vote selections can be varified		
	verified.		
	Actual: The ballot review screen displayed the selection correctly.		
1030	Use the designated method to retract to the first partisan "1 of 1" contest excluding the straight party contest.		
	<i>Expected:</i> The precinct tabula party contest.	ation device navigates to the first partisan "1 of 1" contest excluding the straight	
	Actual: Navigated to Presider	nt of the United States.	

1040		
	Deselect the first candidate selection and select the second candidate.	
	<i>Expected:</i> The precinct tabulation device indicates the de-selection of the first candidate and the select of the second candidate.	
	Actual: Calvin Marino and Keith Satterwhite were selected.	
1050	Use the designated method to advance to the first "Question" contest. De-select the "Yes" option and select the "No" option.	
	<i>Expected:</i> The precinct tabulation device navigates to the first "Question" contest and provides an indication of the de-selection of the "Yes" option and a selection of the "No" option.	
	Actual: "No" was selected in the Statewide Referendum contest.	
1060	Use the designated method to advance the "Ballot Review". Observe the "Ballot Review" to see if the above selections are indicated. Use the designated method to cast the voted selections.	
	<i>pected:</i> The precinct tabulation device advances to the "Ballot Review" screen. After review and ballot is cast successfully.	
	Actual: The selections were displayed correctly.	
1070	Repeat steps 1000- 1060 from above using an ADA input device.	
	Expected: Repeat 1000X         Repeat 1010X         Repeat 1020X         Repeat 1030X         Repeat 1040X         Repeat 1050X         Repeat 1060X	
	Actual: All steps were repeated using an audio session.	
1080	Close the polls and print the closed polls report tape.	
	Expected: The polls closed and a report is printed.	
	Actual: The polls were closed and the results report printed.	
1090	Review the closed polls report to ensure all selections input above are recorded and reported correctly.	
	Expected: The closed polls report presents the accumulated totals for the selections input above.	
	Actual: All selections were accurately reported on the results report.	
Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored,		

and reported as input by the tester. The voter input can be changed by navigating through the ballot after a ballot has been reviewed.

Test Case Identifier 1( 25 D.S. & 2021 7/1() Dublic Counter No Decreasing of Della Madia Country with					
<b>Test Case Identifier:</b> 16 – 25 P.S. § 3031.7(16) Public Counter, No Reopening of Polls, Media Security with Tamper Proof Locks and Zero Proof and Tally Reports.					
-					
	P.S. § 3031.7		If the voting system is of a type which provides for the computation		
Requiremen	ts:		tabulation of votes at the district level, the district component of the		
			natic tabulating equipment shall include the following mechanisms		
			pabilities:		
			public counter, the register of which is visible from the outside of the		
			natic tabulating equipment component into which the ballots are		
			ed, which shall show during any period of operation the total		
			per of ballots entered for computation and tabulation.		
			lock, or locks, by the use of which all operation of the tabulation		
			ent of the automatic tabulating equipment is absolutely prevented		
			indiately after the polls are closed or where the tabulation of votes is pleted.		
		-			
			t shall be so constructed and controlled that, during the progress of		
			g, it shall preclude every person from seeing or knowing the number		
			tes theretofore registered for any candidate or question; and it shall		
			ude every person from tampering with the tabulating element.		
			the number of choices recorded for any office or on any question		
			eds the number for which the voter is entitled to vote, it shall reject hoices recorded on the ballot for that office or question, provided,		
			· · · · ·		
			if used during the period of voting it may also have the capacity to		
indicate to a voter that he has improperly voted for more candidates					
			office than he is entitled to vote for, and in such case it shall have the		
		· ·	city to permit the voter to mark a new ballot or to forego his		
			rtunity to make such correction.		
			shall be equipped with an element which generates a printed record		
			the beginning of its operation which verifies that the tabulating		
			ents for each candidate position and each question and the public		
			ter are all set to zero and with an element which generates a printed		
			d at the finish of its operation of the total number of voters whose		
			ts have been tabulated, the total number of votes cast for each		
			idate whose name appears on the ballot, and the total number of cast for, or against, any question appearing on the ballot.		
Test Objecti	ve: To determine if the voti		<b>Test Configuration:</b> Precinct tabulation device configured as		
	oublic counter, does not allo		described for normal election day operation by Pennsylvania		
-	g of the polls, and supplies a		procedures and/or the device manufacturer. This includes all		
proof and tall		2010	security locks and seals.		
Test Equipm		None			
	edural Requirements:	None			
Assumptions			election media is installed but the polls have not been opened.		
Step	·•	inct	Description		
1000			Description		
1000	Ensure media is loaded but the polls have not been opened. Use the designated method to open polls. If a				
	response is needed to print "Zero Proof" report, select this option.				
	response is needed to print Zero Proor report, select this option.				
	<i>Expected:</i> The precinct tabulation device opens the polls and prints a "Zero Proof" report.				
	Experience in province abalation device opens the poins and prints a Zero Front report.				
	Actual: Polls opened and zero proof report was printed.				
	opened and zero proor report mus printedi				
1010					
1010	Activate a ballot for voting.				
	retreate a ballot for votilig.				
	<i>Expected:</i> The ballot is presented and vote selections can be input.				
	Expected. The ballot is prese	neu all	a vote servetions can be input.		
L					

	Actual: The ballot was presented.
1020	
1020	Use the designated method to navigate to the straight party contest. Select the first selection in the straight party contest.
	<i>Expected:</i> The precinct tabulation device navigates to the first straight party contest, allows the input of the first selection, and indicts the first selections was input.
	Actual: Republican was selected.
1030	
2000	Use the designated method to advance the "Ballot Review". Observe all selections for the party associated with the selection for the first straight party selection are selected. Observe the public counter value being 0.
	<i>Expected:</i> The precinct tabulation device navigates to the "Ballot Review" screen. The public counter is visible and the value is 0.
	<i>Actual:</i> Selections for Republican candidates were displayed. The counters had to be observed before the ballot is presented.
1040	
1040	Use the designated method to cast the voted selections. Observe the acknowledgement of "successful" ballot cast if provided, and the public counter incrementing by one.
	<i>Expected:</i> The precinct tabulation device successfully cast the ballot and the public counter is incremented. If the ballot was not cast successfully the test is halted.
	Actual: The ballot was cast successfully. The incrementing of the counter had to be observed after the ballot was cast.
1050	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed.
	Actual: The polls were closed and the results report printed.
1060	
	Use the designated method to attempt to reopen the polls.
	<i>Expected:</i> The polls cannot be reopened.
	Actual: The polls could not be reopened.
1070	Place lock on precinct tabulation device per Pennsylvania Procedures to ensure all operation of the tabulation element is prevented.
	<i>Expected:</i> The precinct tabulation device can by secured so that all operation of the tabulation element is prevented.

	Actual: The precinct tabulation device could be locked.	
1070		
	Review the closed polls report to ensure all selections input above are recorded and reported correctly.	
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above.	
	Actual: The polls were closed and the results report printed.	
Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored,		
and reported as input by the tester. The voting device is able to produce a "Zero Proof" and "Tally		
Report". The voting device has a visible public counter and the counter increments correctly.		

Test Case Identifier: 04, 06, 08	3, 09, Permanent Physical Record, and Statistical Sample – 25 P.S. §§ 3031.7(4), (6),
(8), (9); 3031.1; and 3031.17 Sy	stem Integration
PA ST 25 P.S. § 3031.7 Requirements:	<ul> <li>(4) Permits each voter, at other than primary elections, to vote a ticket selected from the nominees of any and all political parties, from the nominees of any and all political bodies, and from any persons whose names are not in nomination and do not appear upon the official ballot.</li> <li>(6) Permits each voter to vote for as many persons for any office as he is entitled to vote for and to vote for or against any question upon which he is entitled to vote and precludes each voter from voting or from having his vote tabulated for any candidate, or upon any question, for whom or upon which he is not entitled to vote.</li> <li>(8) Precludes each voter from voting or from having his vote tabulated more than once for any candidate for the same office or upon any question, except in districts and for offices where cumulative voting is authorized by law.</li> </ul>
	(9) Permits each voter at a primary election to vote only for the candidates seeking nomination by a political party in which such voter is registered and enrolled, and for any candidate for nonpartisan nomination, and for any question upon which he is entitled to vote.
PA ST 25 P.S. § 3031.1 Requirements:	"ELECTRONIC VOTING SYSTEM" means a system in which one or more voting devices are used to permit the registering or recording of votes and in which such votes are computed and tabulated by automatic tabulating equipment. The system shall provide for a permanent physical record of each vote cast.
PA ST 25 P.S. § 3031.17 Requirements:	The county board of elections, as part of the computation and canvass of returns, shall conduct a statistical recount of a random sample of ballots after each election using manual, mechanical or electronic devices of a type different than those used for the specific election. The sample shall include at least two (2) per centum of the votes cast or two thousand (2,000) votes whichever is the lesser.

#### Test Objective:

This area of testing will focus on the system being able to perform a general and a closed primary from ballot design to reporting of results.

#### **Test Configuration:**

The system integration testing will execute a general and a primary election from ballot design through vote accumulation, consolidation and reporting. The election definitions will include all supported voting variations, languages, multiple ballot styles, and ADA voting. Two election definitions will be defined and executed according to a predefined voting pattern. All requirements tested in the targeted functionality testing will be monitored including accuracy throughout system integration testing.

#### **Test Method:**

The method for testing these requirements is defined as follows:

Provide an election definition that contains multiple ballot styles based on geographical subdivision in both a general election and a closed primary and tests that each vote is counted only once.

Two elections will be utilized to perform System Integration Testing:

- PA Certification General Election
- PA Certification Closed Primary Election

This test will be performed by evaluating the system from the pre-voting state of loading the media and obtaining pre-voting reports through the post-voting state of accumulation of voted data and printing of post-election reports. All documented steps will be followed to perform this test.

- Election definition and ballot layout coded prior to test
- Print pre-election report for ballot layout, precinct summary, and election summary
- Load election media
- Install election onto the precinct tabulation device
- Open polls and print zero proof report
- Vote pre-defined voting pattern
- Closed polls and print results tapes
- Print audit logs
- Perform a 10% sample according to PA procedures
- Harvest permanent physical record example
- Load election results into EMS
- Print precinct summary and election summary reports
- Collect and analyze all data

**Criteria for Evaluation of the Test Results:** All intended selection input by the tester are recorded, stored and reported accurately.

<b>Test Case Identifier:</b> 12 – 25 P.S. § 3031.7(12) Penetration Analysis
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PA ST 25 P.S. § 3031.7	(12) Provides acceptable ballot security procedures and		
Requirements:	impoundment of ballots to prevent tampering with or substitution		
	of any ballots or ballot cards.		

#### **Test Objective:**

This area of testing will focus on the current documented procedures and configuration to ensure that the physical and access secure measures provide a determined level of security. *Depending on the scope of this project this may be performed by a third-party expert.* 

# **Test Configuration:**

The voting system will be configured as would be for a polling place with all security precautions in place.

#### **Test Method:**

The method for testing these requirements is defined as follows:

Test steps will be followed to evaluate the physical and access controls and procedures in place for the storage of voted ballots. This test will be performed by evaluating the system to ensure that all access areas and seals and/or locks provide adequate security from external access. The tester will:

- check all seal and/or locks and attempt to open the system
- verify that the ballot storage device is secure by attempting to insert and retrieve ballots without removing any seals and/or locks
- verify that any needed supplies can be accessed by the poll worker without allowing access to the ballots or internal components of the voting system
- verify that the system counter cannot be reset by any unauthorized person at any unauthorized point
- exercise verification of password security management

Criteria for Evaluation of the Test Results: All intended access controls are in place and are sufficient.

**Comments:** 

#### Commonwealth of Pennsylvania State Certification – Review

List all reports provided by the manufacturer for review to meet the review requirements in the space provided below:

**Document I** - <u>Hardware Qualification Testing of the Edge Models I & II DRE Voting Machines</u>, Verivote Printer, Card Activator, and ADA Audio Adapter Peripherals (Firmware Version 5.0.14) Report No. 51884-03, Dated March 16, 2006

**Document II** - <u>Change Release Report of the Edge Models I & II DRE Voting Machines, Verivote</u> Printer, Card Activator, and ADA Audio Adapter Peripherals (Firmware Version 5.0.21) Report No. 51884-04, Dated March 16, 2006

**Document III -** <u>Change Release Report of the Edge Models I & II DRE Voting Machines with</u> Verivote Printer (Firmware Version 5.0.22) Report No. 51884-05, Dated March 16, 2006

**Document IV** - <u>Change Release Report of the Edge Models I & II DRE Voting Machines with</u> Verivote Printer (Firmware Version 5.0.23) Report No. 51884-06, Dated March 16, 2006\_\_\_\_\_

**Document V** - <u>Change Release Report of the Edge Models I & II DRE Voting Machines with Verivote</u> Printer (Firmware Version 5.0.24) Report No. 51884-07, Dated March 16, 2006\_\_\_\_\_

Document VI - Software Qualification Test Report Sequoia WinEDS 3.1.012 dated March, 17, 2006

# 25 P.S. § 3031.5. Examination and approval of electronic voting systems by the Secretary of the Commonwealth

(a) Any person or corporation owning, manufacturing or selling, or being interested in the manufacture or sale of, any electronic voting system, may request the Secretary of the Commonwealth to examine such system if the voting system has been examined and approved by a federally recognized independent testing authority and if it meets any voting system performance and test standards established by the Federal Government. The costs of the examination shall be paid by the person requesting the examination in an amount set by the Secretary of the Commonwealth. Any ten or more persons, being qualified registered electors of this Commonwealth, may, at any time, request the Secretary of the Commonwealth to reexamine any electronic voting system theretofore examined and approved by him. Before any reexamination, the person, persons, or corporation, requesting such reexamination, shall pay to the Treasurer of the Commonwealth a reexamination fee of four hundred fifty dollars (\$450). The Secretary of the Commonwealth may, at any time, in his discretion, reexamine any such system therefore examined and approved by him. The Secretary of the Commonwealth may issue directives or instructions for implementation of electronic voting procedures and for the operation of electronic voting systems.

# **ITA/ VSTL Reports**

Report Title, Version and Date - <u>Hardware Qualification Testing of the Edge Models I & II DRE</u> <u>Voting Machines, Verivote Printer, Card Activator, and ADA Audio Adapter Peripherals (Firmware</u> <u>Version 5.0.14) Report No. 51884-03, Dated March 16, 2006</u>

#### 25 P.S. § 3031.7 Requirement -

11) Is suitably designed for the purpose used, is constructed in a neat and workmanlike manner of durable material of good quality, is safely and efficiently useable in the conduct of elections and, with respect to the counting of ballots cast at each district, is suitably designed and equipped to be capable of absolute accuracy, which accuracy shall be demonstrated to the Secretary of the Commonwealth.

#### **Review of Product Safety Test or other similar test**

Report Title - <u>Hardware Qualification Testing of the Edge Models I & II DRE Voting Machines</u>, Verivote Printer, Card Activator, and ADA Audio Adapter Peripherals (Firmware Version 5.0.14) Report No. 51884-03, Dated March 16, 2006

Section - <u>Attachment H Product Safety Review UL60950-1 Safety of Information Technology</u> Equipment Report No. 44733-03, Dated 11/1/2004

Page(s) - H-1 through H-81

Paragraphs - \_all\_\_\_\_\_

#### **Review of Accuracy Test**

Report Title - <u>Hardware Qualification Testing of the Edge Models I & II DRE Voting Machines</u>, Verivote Printer, Card Activator, and ADA Audio Adapter Peripherals (Firmware Version 5.0.14) Report No. 51884-03, Dated March 16, 2006

Section - <u>6.4.1 Operating Environmental Test</u>, 6.6 Electrical Tests, Attachment A VSS 2002 Functional <u>Requirements Matrix</u>

Page(s) - <u>15, 17, A-3, A-13, A-18-A19, A-20, A-25</u>

Paragraphs - \_all, all, 2.2.2.1 a-e, 3.2.1 b, 3.2.4.3.3 a-f, 3.2.6.2.2 a-b, 4.4.2 f

#### 25 P.S. § 3031.7 Requirement -

(13) When properly operated, records correctly and computes and tabulates accurately every valid vote registered.

#### **Review of Accuracy Test**

Report Title - <u>Hardware Qualification Testing of the Edge Models I & II DRE Voting Machines</u>, Verivote Printer, Card Activator, and ADA Audio Adapter Peripherals (Firmware Version 5.0.14) Report No. 51884-03, Dated March 16, 2006\_\_\_\_\_\_

Section - <u>6.4.1 Operating Environmental Test</u>, <u>6.6 Electrical Tests</u>, <u>Attachment A VSS 2002 Functional</u> <u>Requirements Matrix</u>

Page(s) - 15, 17, A-3, A-13, A-18-A19, A-20, A-25\_\_\_\_

Paragraphs - \_\_all, all, 2.2.2.1 a-e, 3.2.1 b, 3.2.4.3.3 a-f, 3.2.6.2.2 a-b, 4.4.2 f

### 25 P.S. § 3031.7 Requirement -

(14) Is safely transportable.

#### **Review of Hardware Environmental Tests**

Report Title - <u>Hardware Qualification Testing of the Edge Models I & II DRE Voting Machines</u>, Verivote Printer, Card Activator, and ADA Audio Adapter Peripherals (Firmware Version 5.0.14) Report No. 51884-03, Dated March 16, 2006

Section - <u>6.2 Electrical and Environmental Tests</u>, <u>Attachment C High and Low Storage Temperature</u> MIL-STD 810D Method 501.2 and 502.2, <u>Attachment D Bench Handling MIL-STD 810D Method 516.3</u> Procedure VI, <u>Attachment E Vibration MIL-STD 810D Method 514.3 Category 1 Basic Transportation</u> <u>Common Carrier</u>, <u>Attachment F Humidity MIL-STD 810D Method 507.2</u> Procedure 1 Natural Hot-Humid, <u>Attachment G Environmental Operating 163-H</u>, <u>Attachment K Instrumentation Equipment Sheets</u>

Paragraphs - \_\_all, all, all, all, all, all, all\_

#### 25 P.S. § 3031.7 Requirement -

15) Is so constructed that a voter may readily learn the method of operating it.

#### **Review of Usability Evaluation**

Report Title - <u>Not Available</u>	
Section	_
Page	_
Paragraphs	_

**Reviewers Signature** 

**Date Completed**