

## COMMONWEALTH OF PENNSYLVANIA TEST REPORT FOR

## RE-EXAMINATION OF DOMINION ACCUVOTE TSX VERSION 4.7.8 AND ASSURE 1.2 ELECTION MANAGEMENT SYSTEM

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#### 1.0 INTRODUCTION

#### 1.1 Scope

A re-examination of the Dominion Voting Systems AccuVote TSx Version 4.7.8 and Assure Version 1.2 Voting System (hereafter referred to as the "Assure 1.2 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 Assure 1.2 Voting System, previously certified for use in the Commonwealth of Pennsylvania on March 9, 2011, 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 AccuVote TSx Version 4.7.8 and Assure 1.2 Election Management System

#### 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  United States Election Assistance Commission EAC		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.	
		Commission created per the Help America Vote Act of 2002 that is responsible for establishing voting system standards and providing for the voluntary testing and certification of voting systems.	

Term	Abbreviation	Definition
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.
Federal Election Commission	FEC	Commission created in 1975 to regulate the 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 AccuVote TSx terminal is a DRE Voting Device which allows a voter to vote by touching graphics displayed on the unit's LCD/touch screen interface. The AccuVote TSx operates on customized software, called Ballot Station, which is designed to display and/or audibly play back electronic ballots and record voter's selections on the AccuVote TSx.

The Ballot Station application is used in conjunction with GEMS election management software. Election and ballot information defined in GEMS is programmed to PCMCIA memory cards that are installed on the AccuVote-TSx voting devices. These memory cards store election and ballot information defined in GEMS, and the results of voted ballots that are cast on the AccuVote-TSx units. The Ballot Station firmware offers four modes of operation: Pre-Download Mode, Pre-Election Mode, Election Mode and Post-Election Mode. Each mode provides access to a set of functions that may be used in that mode.

The AccuVote TSx consists of two detachable components: the tablet and the base. The AccuVote TSx is operated with the tablet configured inside the base. The tablet contains the:

- Touch screen upon which the voter votes
- Processor
- Memory, including both the memory card as well as internal flash memory
- Smart card reader, used to identify the voter to the unit
- Election data and election data transfer compartments
- Battery status indicator

- Power status button
- Power switch
- Telephone jack
- Audio jack for headphones
- Serial jack for numeric keypad
- Battery
- Rubberized grips

The tablet is installed in the base, which contains the unit's power jacks, power supply, legs, privacy screens, handle, and optionally, printer. The combined tablet and base configuration weighs 29 lbs.

#### 2.1 Software

The software listed in Table 2.1 was used during the examination of the Assure 1.2 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)
AccuVote TSx Ballot Station	4.7.8	4b1757a53e1af30aa790a6e8aa75be00231d01a1- SHA1
CE	WCE 410.3.10	Not Calculated
BootLoader	1.3.11	Not Calculated
ABasic Report Files	2.2.4	Not Calculated
AVPM Model A	3.03	Not Calculated
GEMS	1.2.1.5	Not Calculated
ASSURE Security Manager	1.2.5	Not Calculated
Key Card Tool	4.7.8	Not Calculated
VC Programmer	4.7.8	Not Calculated
Voter Card Encoder	1.3.3	Not Calculated
ExpressPoll Card Writer	1.1.6	Not Calculated

#### 2.2 Hardware

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

**Table 2.2 Hardware** 

Component Name	Model Number	Serial Number(s)	Description
AccuVote TSx	Model D	271123, 271280, 271557, 271736	DRE

#### 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		Transport media
Voter Card Encoder		Device to create voter access cards
Brother Printer	HL 2240	COTS printer used to print EMS reports

#### 2.4 Test Support Equipment/Materials

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

**Table 2.4 Test Materials** 

Part Name	Quantity	Description
8 ½" 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 Assure 1.2 Voting System was certified for use in the Commonwealth of Pennsylvania on March 9, 2011 after an examination was conducted pursuant to the Pennsylvania Election Code. The Assure 1.2 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 Assure 1.2 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 Assure 1.2 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 8, 2012, at the Commonwealth Keystone Building, Hearing Room 1, 400 North Street, Harrisburg, Pennsylvania. The re-examination lasted approximately six 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 Assure 1.2 Voting System met those requirements. The "Targeted Functionality" testing sought to ascertain whether the Assure 1.2 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 Assure 1.2 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 closed-primary 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 Assure 1.2 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 Assure 1.2 Voting System.

#### 4.0 TEST FINDINGS AND RECOMMENDATIONS

The Assure 1.2 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 92 of the 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, "[w]hen 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 Assure 1.2 Voting System was examined and approved by a VSTL as meeting the applicable performance and test standards. *See* Certificate of Conformance for Premier Assure 1.2. issued by the EAC on August 6, 2009.

The design requirements of Sections 3031.7(11) and (14) of the Pennsylvania Election Code can be met by the documented Product Safety Test and Accuracy Test in the submitted VSTL reports. *See* page 92 of Appendix A. Although the submitted reports did not contain specific data for a Product Safety Test this test must be performed receive an EAC Certification. The specific transportation requirements of Section 3031.7(14) of the Election Code can be met by the combination of documented Hardware Non-Operating Environmental Tests which included: bench handling, vibration, low temperature, high temperature, and humidity. *See* SysTest Report for EAC # PES-Assure 1.2.

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

The manufacturer provided a Summative Usability Report to the VSTL for EAC Certification to meet the requirements set forth in 25 P.S. § 3031.7(15). Additionally, the Examiner 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 Assure 1.2 Voting System, I conclude the Assure 1.2 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.

<u>Summary Finding:</u> 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 Assure 1.2 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 Assure 1.2 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.

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

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).

<u>Summary Finding:</u> 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 that this test was conducted while the Assure 1.2 Voting System was activated for a standard voting session for the purposes of the observations. In an actual accessible voting session the LCD display is not active unless the voter chooses to have the display on. Any jurisdiction using the Assure 1.2 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 Assure 1.2 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 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.

<u>Summary Finding:</u> No issues or anomalies were noted during the execution of this test case. The Assure 1.2 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 68 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude that the Assure 1.2 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 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.

<u>Summary Finding:</u> No issues or anomalies were noted during the execution of this test case. During the execution of this test case, the Assure 1.2 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 70 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude that the Assure

1.2 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.

<u>Summary Finding:</u> No issues or anomalies were noted during the execution of this test case. During the execution of this test case, the Assure 1.2 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 74 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude the Assure 1.2 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 Writein:</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.

<u>Summary Finding:</u> No issues or anomalies were noted during the execution of this test case. During the execution of this test case the Assure 1.2 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 77 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude the Assure 1.2 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.

<u>Summary Finding:</u> No issues or anomalies were noted during the execution of this test case. The Assure 1.2 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 80 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude the Assure 1.2 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</u> (Regular/ADA):

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.

<u>Summary Finding:</u> No issues or anomalies were noted during the execution of this test case. During the execution of this test case, the Assure 1.2 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 83 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude the Assure 1.2 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.

<u>Summary Finding:</u> No issues or anomalies were noted during the execution of this test case. During the execution of this test case the Assure 1.2 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 86 of Appendix A. The objective criteria for evaluation were analyzed, and the system met the criteria. Therefore, I conclude the Assure 1.2 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 other 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 for conducting the statistical recount was to use the documented voting pattern and compare it to 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.

<u>Summary Finding:</u> No issues or anomalies were noted during the execution of this test case. The Assure 1.2 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 Assure 1.2 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 Assure 1.2 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 Assure 1.2 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 Assure 1.2 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 1.4 indicate locks and seals on the precinct tabulation devices.



Photograph 1.1 TSx transportation case



Photograph 1.2 locks on transportation case



Photograph 1.3 locks on transportation case



Photograph 1.4 seals on TSx case

<u>Summary Finding:</u> No issues or anomalies were noted during the execution of this test case. During the conducting of this analysis, the Assure 1.2 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 Assure 1.2 Voting System meets the requirements of Section 3031.7(12) of the Pennsylvania Election Code.

#### 5.0 CERTIFICATION FOR USE

The Assure 1.2 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 ACCUVOTE TSX VERSION 4.7.8 AND

ASSURE 1.2 ELECTION MANAGEMENT SYSTEM

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#### 1.0 INTRODUCTION

The primary purpose of the re-examination is to confirm that the Dominion AccuVote TSX version 4.7.8 and Assure version 1.2 voting system 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 Thursday, March 8, 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

"ASSURE" – Dominion software used for defining and managing security services for the ASSURE voting system

"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 "ExpressPOLL" - Dominion software tool used to encode Voter Access Cards

"FEC" – Federal Election Commission

"GEMS" - Dominion election management system

"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 AccuVote TSX version 4.7.8 and Assure version 1.2 were certified for use in the Commonwealth of Pennsylvania on March 9, 2011 after an examination conducted pursuant to the Pennsylvania Election Code. The AccuVote TSX version 4.7.8 and Assure version 1.2 have 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 reexamination of the Dominion AccuVote TSX. 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/Firmware

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)
AccuVote TSx Ballot	4.7.8	TBD
Station		
CE	WCE 410.3.10	TBD

Component Name	Version	Unique Identifier (digital signature or hash value)
BootLoader	1.3.11	TBD
ABasic Report Files	2.2.4	TBD
AVPM Model A	3.03	TBD
GEMS	1.2.1.5	TBD
ASSURE Security Manager	1.2.5	TBD
Key Card Tool	4.7.8	TBD
VC Programmer	4.7.8	TBD
Voter Card Encoder	1.3.3	TBD
ExpressPoll Card Writer	1.1.6	TBD

#### 2.2 Hardware

This subsection contains a listing of the hardware being evaluated.

**Table 2.2 Hardware** 

Component	Model	Revision	Description
Name	Number	Number	
AccuVote TSX			DRE

#### 2.3 Peripherals

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

**Table 2.3 Peripherals** 

Part	Model	Revision	Description
Name	Number	Number	
PCMCIA		N/A	Transport media
Voter Card Encoder			Device to create voter access cards
RICOH LP440C Printer			COTS printer used 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 device. The Department will also require manufacturer to configure the 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.

**Table 3.1 Documentation** 

Document Name	Revision	Issue Date
ACCUVOTE TSX DOCUMENTATION		
AccuVote-TSX with AVPM Technical Data Package Introduction	10.0	6/29/2009
AccuVote-TSX with AVPM Technical Data Package System	7.0	6/12/2009
Overview		
AccuVote-TSX with AVPM Technical Data Package System	6.1	6/12/2009
Functionality Description		
AccuVote-TSX with AVPM Technical Data Package System	7.0	6/12/2009
Hardware Specification		
AccuVote-TSX with AVPM Technical Data Package System	5.1	6/12/2009
Security Specification		
AccuVote-TSX with AVPM Technical Data Package System Test	3.1	6/12/2009
and Verification Specification		
AccuVote-TSX with AVPM Technical Data Package System	6.0	6/29/2009
Operations Procedures		
AccuVote-TSX with AVPM Technical Data Package System	6.1	6/12/2009
Maintenance Procedures		
AccuVote-TSX with AVPM Technical Data Package Personnel	2.5	6/12/2009
Deployment and Training Requirements		
AccuVote-TSX with AVPM Technical Data Package Configuration	7.0	6/12/2009
Management Plan		
AccuVote-TSX with AVPM Technical Data Package Quality	7.0	6/12/2009
Assurance Plan		
AccuVote-TSX with AVPM Technical Data Package System	10.0	6/29/2009
Change Notes		
AccuVote-TSX with AVPM Technical Data Package	3.1	6/12/2009
Telecommunications		
AccuVote-TSX with AVPM Technical Data Package Appendix A	(multiple)	(multiple)
Requirements Definition folder with supporting documentation		
AccuVote-TSX with AVPM Technical Data Package Appendix B:	7.0	6/29/2009
Hardware Specifications		
AccuVote-TSX with AVPM Technical Data Package Appendix C	(multiple)	(multiple)
Drawings folder with supporting documentation	_	
AccuVote-TSX with AVPM Technical Data Package Appendix D	(multiple)	(multiple)

Document Name	Revision	Issue Date
COTS Components Specifications folder with supporting		
documentation		
AccuVote-TSX with AVPM Technical Data Package Appendix E:	1.5	6/12/2009
VIPS Keypad Specification		
AccuVote-TSX with AVPM Technical Data Package Appendix F	(multiple)	(multiple)
Materials Specifications folder with supporting documentation		
AccuVote-TSX with AVPM Technical Data Package Appendix G	(multiple)	(multiple)
Assembly Procedures folder with supporting documentation		
AccuVote-TSX with AVPM Technical Data Package Appendix H	(multiple)	(multiple)
Engineering Changes folder with supporting documentation		
AccuVote-TSX with AVPM Technical Data Package Appendix I	(multiple)	(multiple)
Bill of Materials folder with supporting documentation		
AccuVote-TSX with AVPM Technical Data Package Appendix J:	6.1	6/12/2009
System and Data Integrity		- /- 0 /- 0 0
AccuVote-TSX with AVPM Technical Data Package Appendix K	7.0	6/28/2009
Windows CE Build Process folder: WinCE 4.10 Build Process		
AccuVote-TSX with AVPM Technical Data Package Appendix L	(multiple)	(multiple)
AVPM Firmware Specifications folder with supporting		
documentation	( 1,: 1 )	( 1.1 1 )
AccuVote-TSX with AVPM Technical Data Package Appendix M	(multiple)	(multiple)
AVPM Firmware Build Process folder with supporting		
documentation  Apply to TSV with AVDM Technical Data Peaks as Amendia N	A	11/21/2006
AccuVote-TSX with AVPM Technical Data Package Appendix N	A	11/21/2006
Power Management folder: AccuVote-TSX Battery Information AccuVote-TSX with AVPM Technical Data Package Appendix O	(multiple)	(multiple)
Packaging folder with supporting documentation	(munipie)	(mumple)
AccuVote-TSX with AVPM Technical Data Package Appendix P	(multiple)	(multiple)
Usability folder with supporting documentation	(munipie)	(munipie)
AccuVote-TSX with AVPM Technical Data Package Appendix Q	(multiple)	(multiple)
Test Plans folder with supporting documentation	(munipie)	(munipic)
AccuVote-TSX with AVPM Technical Data Package Appendix R:	5.0	6/12/2009
Administrative Test Plans	3.0	0/12/2007
AccuVote-TSX with AVPM Technical Data Package Appendix S	None	e-file date
Storage folder: Warehousing Study DESI Voting Terminals	Tione	4/15/2005
AccuVote-TSX with AVPM Technical Data Package Appendix T	(multiple)	(multiple)
Servicing folder with supporting documentation	(marripre)	(1110111710)
AccuVote-TSX with AVPM TDP 2002 Vendor Testing and TDP	None	e-file date
Trace		6/29/2009
ASSURE 1.2 DOCUMENTATION		
Assure 1.2 Technical Data Package Introduction	17.0	7/7/2009
Assure 1.2 Technical Data Package Appendix 1 COTS	(multiple)	(multiple)
Communications Components folder with supporting	( " ' ' ' ' ' ' '	( " · F - /
documentation		
Assure 1.2 Technical Data Package Appendix 2 Shared	2.0	7/1/2009
Components Build Process folder: Shared Components 2.2 Build		
Process		
Assure 1.2 Technical Data Package Appendix 3 ASSURE 1.2 ECs	(multiple)	(multiple)
folder with supporting documentation		•
Assure 1.2 Technical Documentation Package Appendix A System	None	e-file date

Document Name	Revision	Issue Date
Overview folder: e-file title: Assure 1.2 External Data Flow		3/5/2012
Revision 7.0		
Assure 1.2 Technical Documentation Package Appendix B	(multiple)	(multiple)
Software Configuration Management folder with supporting		
documentation		
Assure 1.2 Technical Documentation Package Appendix C	(multiple)	(multiple)
Hardware Configuration Management folder with supporting		
documentation		
Assure 1.2 Technical Documentation Package Appendix D	4.0	5/ 9/2009
Software Quality Assurance Methodology folder: Quality		
Assurance Methodology		
Assure 1.2 Technical Documentation Package Appendix E	(multiple)	(multiple)
Hardware Quality Assurance Methodology folder with supporting	` ' '	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
documentation		
Assure 1.2 Technical Data Package Appendix F: Surface	2.3	6/12/2009
Specification Standard		
Assure 1.2 Technical Documentation Package Appendix G	1.0	12/ 9/2002
Bugzilla folder: Bugzilla Users Guide	1.0	12, 3, 2002
Assure 1.2 Technical Documentation Package Appendix H C++	5.1	9/2/2008
Coding Standard folder: C/C++ Coding Standard	5.1	<i>31212</i> 000
Assure 1.2 Technical Documentation Package Appendix I	(multiple)	(multiple)
Documentation Standards folder with supporting documentation	(manipie)	(martiple)
Assure 1.2 Technical Data Package Appendix J File Management	1.6	6/12/2009
Assure 1.2 Technical Documentation Package Appendix K SSL	3.0	11/18/1996
Protocol Specification folder: SSL Protocol	5.0	11/10/1990
Assure 1.2 Technical Documentation Package Appendix L Training	1.6	6/12/2009
Programs folder: e-file title: CourseList	1.0	0/12/2009
Assure 1.2 Technical Documentation Package Appendix M	1.3	9/9/2008
Development Office Backup Guide folder: Development Office	1.3	2/3/2000
Backup Guide		
Assure 1.2 Technical Documentation Package Appendix N Support	(multiple)	(multiple)
folder with supporting documentation	(manipie)	(martiple)
Assure 1.2 Technical Documentation Package Appendix O	None	e-file date 3/
Supplies folder: Premier Election Supplies brochure	Tione	5/2012
Assure 1.2 Technical Data Package Appendix P Procurement	(multiple)	(multiple)
Certification	(manipie)	(marapic)
Assure 1.2 Technical Data Package Appendix Q System	1.7	6/12/2009
Acquisition	1.7	0/12/2007
Assure 1.2 Technical Documentation Package Appendix R AES	None	11/26/2001
Encryption Specification folder: AES Encryption Standard	None	11/20/2001
Assure 1.2 Technical Documentation Package Appendix S Build	17.0	6/28/2009
Configuration Guide folder: Build Encryption Guide	17.0	0/20/2007
Assure 1.2 Technical Documentation Package Appendix T Product	1.1	8/23/2007
Advisory Notices folder: Premier Election Solutions product	1.1	0/23/2007
Advisory Notices folder. Fremier Election Solutions product Advisory Notice Procedure QPPB0002		
Assure 1.2 Technical Documentation Package Appendix U UBasic	1.1	9/11/2008
User's Guide folder: AccuBasic 2.2 User's Guide	1.1	7/11/2008
Assure 1.2 Technical Documentation Package Appendix V SHA1	None	5/11/1993
0 11	none	3/11/1993
Specification folder: Secure Hash Standard FIPS PUB 180-1		

Document Name	Revision	Issue Date
Assure 1.2 Technical Documentation Package Appendix W	(multiple)	(multiple)
AVValidator folder with supporting documentation		
Assure 1.2 Technical Data Package Appendix X System Initiation	1.1	6/12/2009
Assure 1.2 Technical Documentation Package Appendix Y	1.0	9/26/2008
AVInstall Build Process folder: AVInstall 1.0 Build Process		
Assure 1.2 Technical Data Package Appendix Z Certificates	2.0	7/7/2009

### 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.

**Table 3.2 Third Party Test Reports** 

Report Title	Description	Revision	<b>Issue Date</b>
Change Release Report of the	Hardware ITA Report	52501-01	11/14/2005
Diebold Election Systems AccuVote			
TSX DRE Voting Machine with			
AccuView Printer Module (Firmware			
Release 4.6.4)			
Premier Election Solutions Assure 1.2	VSTL Test Report	(V)2009-22Jul-	07/22/2009
VSTL Certification Test Report		001(C)	
Version 3.0 EAC Certification #PES-			
Assure1.2			
EMC Qualification Test Report	Hardware Test Report	090410-1393	05/07/2009
Premier Voting Solutions AccuVote-			
TSX A with AVPM			
EMC Qualification Test Report	Hardware Test Report	090410-1394	05/07/2009
Premier Voting Solutions AccuVote-			
TSX A non-AVPM			
EMC Qualification Test Report	Hardware Test Report	090410-1995C	07/13/2009
Premier Voting Solutions AccuVote-			
TSX C with AVPM			
EMC Qualification Test Report	Hardware Test Report	090410-1396D	07/13/2009
Premier Voting Solutions AccuVote-			
TSX D with AVPM			

#### 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	Description	Revision	Issue Date
Diebold Election Systems, Inc. AccuVote OS,	PA Examination	N/A	10/19/2005
AccuVote TSX, GEMS Election Management System			
and Accessories			
Diebold Election Systems, Inc. AccuVote OS,	PA Examination	N/A	12/19/2005
AccuVote TSX, GEMS Election Management System			
and Accessories			
Diebold Election Systems, Inc. AccuVote OS,	PA Examination	N/A	01/07/2006
AccuVote TSX, GEMS Election Management System			
and Accessories			
Commonwealth of Pennsylvania Department of State	PA Examination	N/A	03/04/2011
Updated Results of the Premier Election Solutions			
Express Poll 5000 Electronic Poll Book Demonstration			

#### 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 Once each precinct tabulation device is loaded with the firmware/software, the re-examination. 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 Statistical Sample

#### **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> Vote	ive in Congress District for One	Representative in Congress 10 <sup>th</sup> District Vote for One	5 <sup>th</sup> Di Vote f	ve in Congress istrict or One	Representative in Congress 10 <sup>th</sup> District Vote for One
Ben Baker <i>Allegheny</i>	County	Cheryl Simon	Barbara Barret Hicks Montgomery	County	William Sullivan

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

Write-In Write-In	Robert Rocco (M) Committed to Calvin Marino
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  McNett	Steven Miller  Lewis
Jon Young <i>Muncy</i>	Shirley Henning Mill Creek
Vic Stabile  Gamble	Write-In
Write-In	Write-In
Write-In	
County Chief Executive Four Year Term Vote for One	County Chief Executive Four Year Term Vote for One

Norman Powers Williamsport			Micheal Santarcangelo Fairfield		
Sandra Reilly  McNett			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 Seat 1 Four Year Term Vote for One	Commissioner Seat 2 Four Year Term Vote for One	Commissioner Seat 3 Four Year Term Vote for One	Commissioner Seat 1 Four Year Term Vote for One	Commissioner Seat 2 Four Year Term Vote for One	Commissioner 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			

#### Referendum A Bond Issue

To promote and assure the preservation and improvement of essential rail passenger and freight services to the inhabitants of the state, shall section two of chapter one hundred eighteen of the laws of nineteen hundred seventy-four, authorizing the creation of a state debt in the amount of two hundred fifty million dollars for capital facilities be approved?

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
Pres	Presidente de los Estados Unidos			idente de los Estados U	nidos
	Vote por uno			Vote por uno	
James Collins			Barry Josey		
Alexander P. Bicket			Onlide Medica		
Alexander P. Bicket	Alexanuel F. Dicket		Calvin Marino		
Carol Koethen			Por escrito		
Por escrito					

Senador de los Estados l Vote por uno	Jnidos	Senador de los Estados Unidos Vote por uno	
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 5º Distrito Vote por uno  Ben Baker Condado de Allegheny  Por escrito  Gobernador Vote por uno	Representante en el Congreso 10.º Distrito Vote por uno  Cheryl Simon Condado de York  Lois Koss Condado de Erie  Por escrito	Representante en el Congreso 5º 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 uno William Sullivan Condado de Butler Por escrito
Dean Lindsey Condado de Allegheny  Don Etter Condado de Allegheny  Joe Carlton Condado de Washington  Edwin Lewis Condado de Lancaster  Samuel Lawton Condado de Bucks.  Por escrito			
Vicegobergador Vote por uno  Scott Montes Condado de Berks  Saul Currier Condado de Lehigh  Arnold Krill Condado de Lycoming  Por escrito		Vicegobergador Vote por uno  Sherman R. Bucher Condado de Filadelfia  Richard V. Suits Condado de Cambria  Tabathia Song Condado de Allegheny  Kenneth Interlicchio Condado de Filadelfia  Por escrito	
Representante en la Asamblea General 83.° 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.° Distrito Vote por uno

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

Armstrong			Williamsport		
ohn Roy <i>Clinton</i>		Kerry Jones Williamsport			
Jack "Duke" Brodisky  McNett			Steven Miller Lewis		
Jon Young <i>Muncy</i>			Shirley Henning Mill Creek		
Vic Stabile Gamble			Por escrito		
Por escrito			Por escrito		
Por escrito					
<b>Jefe principal del condado</b> Término de cuatro años Vote por uno			<b>Jefe principal del condado</b> Término de cuatro años Vote por uno		
Norman Powers Williamsport			Micheal Santarcangelo Fairfield		
Sandra Reilly  McNett			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 años	Comisionado Puesto 2 Término de cuatro años	Comisionado Puesto 3 Término de cuatro años	Comisionado Puesto 1 Término de cuatro años	Comisionado Puesto 2 Término de cuatro años	Comisionado Puesto 3 Término de cuatro años
Vote por uno	Vote por uno	Vote por uno	Vote por uno	Vote por uno	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			

#### Asunto del bono

Para promover y asegurar la preservación y mejoramiento del pasajero férreo esencial y servicios de carga para los habitantes del estado, ¿se debe aprobar la sección dos del capítulo ciento dieciocho de las leyes de mil novecientos sesenticuatro, autorizando la creación de una deuda estatal en la cantidad de doscientos cincuenta millones de dólares para instalaciones de capital?

Sí	
No	

# **Voting Pattern:**

B 1	B 2	B 3	B 4	B 5	B 6	B 7	B 8	B 9	B 10
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	X					X			
	-	Y						Y	
			X						
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		Dans	acontotivo in	Congress					
					DISTRICT				V
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	1		Go	vernor	1				
				2 <b>.</b>		X			
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	+		+						
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	1		Lieutena		1		1		Х
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	X!		 						
		Representa		enerai Assei		trict			
X	X		X		X	.,	Х	X	
		X				X			Х
			1						
		Pre		mination De					
X	X		X		X		Х	X	Х
	X			X					Х
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	X	X	X			Х	X	X	X
X				X					
		Х	1					X	
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X		Χ	X						
						X			
						Χ			
				Х					
					Х				
					Х				
	<u>.                                      </u>		Judge of the	Superior C	ourt				
			1	Х		Х		U	
	X			-	Х				
X	<del>                                     </del>		Х		,		X		Х
	†	Х	<del>  ^</del>						
			dge of the Co	mmonweal	th Court		1		
		Jul		X	U	Х	Х	X	V
Y	Y	Y							
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X	X						^	^	^
X	X		ge of the Cou				X	X	X
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Jack "Duke"	Х		Х	Х	Х		Х		Х	X
Brodisky	^			^	^		^		^	^
Jon Young			X				U			
Vic Stabile					X					
Write-In						Х				
Write-In										
		I	I	County C	hief Executiv	ve	· L	I		<u> </u>
Norman Powers	Х		Х	X		X	Х	Х		X
Sandra Reilly	,,	Х	, ,	,	Х		, ,	,	Х	
Write-In									^	
vviito iii		I.	I.	School Dir	ector Regio	n 6	II.	l	ı	
Gerald Danson	Х		Х	X	l local region	X		Х		
Greg Ortiz	X		^		Х		Х			Х
Shlomo Archibald		Х	Х	Х	X		X	Х	Х	X
Delores DeVan		X	^	^	^	Х	^	^	X	^
		^				^			^	
Write-In										
Write-In				0						
					sioner Seat	1				
Stephen Harrick	U	Х	Х	Х	X		X	X	X	X
Write-In					<u> </u>	X			1	
					rendum A					
Yes	U		X	Х	X		X	X		X
No		X				Х			X	
<u> </u>		<u></u>						<u></u>	<u></u>	
	_	_	_				_	_	_	
Precinct 1 DEM	В	В	В	В	В	В	В	В	В	В
	1	2	3	4	5	6	7	8	9	10
			F	President of	the United S	tates				
Barry Josey	X	U				X				
Calvin Marino			X	Х	Х			X	X	X
Write-In							X			
				United S	tates Senato	or				
Oscar Draper	X		X	Х	X	X		X		X
Carter McGaw		Х					Х		Х	
Write-In										
		I.	Renr	esentative ir	Congress F	5 <sup>th</sup> District	II.	l	ı	
Barbara Barret				- Cocintative ii		District			1	
Hicks	X	X	X		X		X		X	
Clinton Testo				Х				Х		Х
Write-In				^		Х				
VVIILG-III				G	vernor					
Charles Jacon			· ·	X				1	T	
Charles Jasen	Х	V	Х	^	Х	V	Х		V	
Shirley Henning		Х				Х		Х	Х	
Write-In				L	L					X
	1	ı	T	Lieutena	nt Governo	r	T	ı	1	
Sherman R.				X						
Bucher									ļ	
Richard V. Suits							X		ļ	
Tabathia Song	Х								Х	
Kenneth		Х	Х		Х	Х		Х	1	
Interlicchio		^	^		^	^		^		
Write-In									<u> </u>	X
			Representat	tive in the G	eneral Asser		strict			
R. J. Abbott	Х	Х		Х		Х		Х		U
Peter F. Saxton			X		Х				Х	
Write-In							Х			
			Pre	sidential No	mination De	legation				
Vincent Seymour			U		X		X		X	
Toni Hamilton	Х	Х	U	Х		Х		Х		
Sam Patel			Ü		Х		Х		Х	
Robert Rocco	Χ	Х	Ü	Х	Ü	Х		Х	1	
Renee Cohn									1	<del> </del>
Jubelrier	Х	X		X	U	X		X	1	
Morton Steele	Χ	U		Х		Х		Х		
Mary Burke					1		Х		Х	<del>                                     </del>
				1	<del>                                     </del>	-	X			
Nyda E. Hambin		]	]			]	^		1	

Write-In									X	X
Write-In										Х
Write-In										Х
Write-In										X
Wille-III				Judge of the	Superior C	ourt.				
1: 1 0	1	1			Superior C	ourt	ı		1	1
Linda Gapp				X				Х		
Patricia Smallmon	X	X	Х		X	X			X	X
Write-In							Х			
	l l		Ju	dge of the Co	mmonwealt	h Court	I	1	I	1
Eugene Ruff			X	X	onwean	X	Х	Х	Х	
	V	V	^	^		^	^	^	^	V
Lewis Tese	Χ	X			Χ					Х
Write-In										
			Jud	ge of the Cou	irt of Comm	on Pleas				
Joanne Shollzert	Х		Х	Х	Х	Х		Х		X
Kerry Jones	Χ	Х		Х	Х		Х	Х	Х	
Steven Miller		X				Х			X	
		^				^	.,		^	
Shirley Henning			Χ				X			
Write-In										X
Write-In										
	J			County Ch	nief Executiv	/e	I	1		1
Michael					=X000th				I	
Micheal	X		X	X	X		X	X	X	
Santarcangelo						.,	<b></b>	ļ	ļ	<b></b>
Charles Place		X				X				X
Write-In									<u> </u>	
L.		Ш		School Dire	ector Region	า 6				
Douglas Stone		Χ		X					Х	
Gerald Danson	Χ	^	Х	X			Х	Х	X	Х
	^		^	^						<del> </del>
Greg Ortiz		Х			X		,,,			Х
Shlomo Archibald	X		X		Χ	X	X			
Delores DeVan						X		X		
Write-In										
Write-In										
TTILLO III				Commiss	sioner Seat		l	l	J	I.
George Fisk	Х	Х	Х		X	Х	Х	Х	Х	Х
	^	^	^	X	^	^	^	^	^	^
Write-In										
				Refer	endum A					
Yes	X		X	X	X		X	U		
1 00	^		^	_ ^	^					
	^	Х	^	^	^	Х			Х	Х
	^	Χ		^		X		Ü	Х	Х
No	^	Х	^	^	^	Х	^		Х	Х
No	^	Х		^		X		J	Х	Х
	В	Х	В	В	В	Х	В	В	Х	Х
No										
No	В	В	B 3	B 4	B 5	B 6	В	В	В	В
Precinct 2 REP	B 1	B 2	B 3	В	B 5 he United S	B 6	B 7	В	B 9	В
Precinct 2 REP  James Collins	В	В	B 3	B 4	B 5	B 6 tates	В	В	В	В
Precinct 2 REP  James Collins Alexander P.	B 1	B 2	B 3	B 4	B 5 he United S	B 6	B 7	В	B 9	В
Precinct 2 REP  James Collins Alexander P. Bicket	B 1	B 2	B 3	B 4 President of t	B 5 he United S	B 6 tates	B 7	B 8	B 9	В
Precinct 2 REP  James Collins Alexander P. Bicket Carol Koethen	B 1	B 2	B 3	B 4	B 5 he United S	B 6 tates	B 7	В	B 9	B 10
Precinct 2 REP  James Collins Alexander P.	B 1	B 2	B 3	B 4 President of t	B 5 the United S X	B 6 tates	B 7	B 8	B 9	В
Precinct 2 REP  James Collins Alexander P. Bicket Carol Koethen	B 1	B 2	B 3	B 4 President of t	B 5 the United S X	B 6 tates	B 7	B 8	B 9	B 10
Precinct 2 REP  James Collins Alexander P. Bicket Carol Koethen Write-In	B 1	В 2 Х	B 3	B 4 President of t	B 5 he United S	B 6 tates	B 7	B 8	B 9	B 10
Precinct 2 REP  James Collins Alexander P. Bicket Carol Koethen Write-In  Bob Ford	В 1 Х	B 2	В 3 X	B 4 President of t	B 5 the United S X ates Senato	B 6 tates X	B 7	B 8	B 9	B 10
Precinct 2 REP  James Collins Alexander P. Bicket Carol Koethen Write-In  Bob Ford Colby Lincoln	B 1	В 2 Х	B 3	B 4 President of t	B 5 the United S X	B 6 tates	B 7	B 8	B 9	B 10
Precinct 2 REP  James Collins Alexander P. Bicket Carol Koethen Write-In  Bob Ford Colby Lincoln	В 1 Х	В 2 Х	В 3 X	B 4 President of t	B 5 the United S X ates Senato	B 6 tates X	B 7	B 8	B 9	B 10
Precinct 2 REP  James Collins Alexander P. Bicket Carol Koethen Write-In  Bob Ford Colby Lincoln Write-In	В 1 X	В 2 X	В 3 X	B 4 President of t	B 5 the United S X ates Senato	B 6 tates X	X X	В 8 X	В 9 X	X X
Precinct 2 REP  James Collins Alexander P. Bicket Carol Koethen Write-In  Bob Ford Colby Lincoln Write-In	В 1 Х	В 2 Х	В 3 X	B 4 President of t  X  United St  X  esentative in	B 5 the United S X ates Senato	B 6 tates X	B 7	B 8	B 9	B 10
Precinct 2 REP  James Collins Alexander P. Bicket Carol Koethen Write-In  Bob Ford Colby Lincoln Write-In  Ben Baker	В 1 X	В 2 X	B 3 X	B 4 President of t  X  United St  X  esentative in	B 5 the United S X ates Senato X Congress 5	B 6 tates X	X X	В 8 X	В 9 X	X X
Precinct 2 REP  James Collins Alexander P. Bicket Carol Koethen Write-In  Bob Ford Colby Lincoln Write-In  Ben Baker	В 1 X	В 2 X	B 3 X	B 4 President of to X United St X esentative in X	B 5 the United S X ates Senato X Congress 5	B 6 tates X	X X	В 8 X	В 9 X	X X
Precinct 2 REP  James Collins Alexander P. Bicket Carol Koethen Write-In  Bob Ford Colby Lincoln Write-In  Ben Baker Write-In	В 1 X	В 2 X	B 3 X	B 4 President of to the state of the state o	B 5 the United S X ates Senato X Congress 5	B 6 tates X	X X	В 8 X	В 9 X	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	В 1 X	В 2 X	X  X  Repr	B 4 President of to X United St X esentative in X	B 5 She United S X ates Senato X Congress 5 X	B 6 tates X	X X	В 8 X	В 9 X	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	B 1	В 2 X	B 3 X	B 4 President of to the state of the state o	B 5 the United S X ates Senato X Congress 5	B 6 tates  X  r  X  th District	X X	В 8 X	X X	X 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	В 1 X	X X	X  X  Repr	B 4 President of to the state of the state o	B 5 She United S X ates Senato X Congress 5 X	B 6 tates X	X X	В 8 X	В 9 X	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	B 1	X X	X  X  Repr	B 4 President of to the state of the state o	B 5 She United S X ates Senato X Congress 5 X	B 6 tates  X  r  X  th District	X X	В 8 X	X X	X 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	B 1	В 2 X	X  X  Repr	B 4 President of to the state of the state o	B 5 She United S X ates Senato X Congress 5 X	B 6 tates  X  r  X  th District	X X	B 8	X X X	X 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	B 1	X X	X  X  Repr	B 4 President of to the state of the state o	B 5 She United S X ates Senato X Congress 5 X	B 6 tates  X  r  X  th District	X X	В 8 X	X X X	X 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	B 1	X X	X  X  Repr	B 4 President of to X United St X esentative in X Go	B 5 the United S X ates Senato X Congress 5 X vernor	B 6 tates  X  r  X  th District  X	X X	B 8	X X X	X 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	X X X	X X U	X  X  Repr	B 4 President of to X United St X esentative in X Go	B 5 She United S X ates Senato X Congress 5 X	B 6 tates  X  r  X  th District  X	X X	X X X	X X X	X 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  Scott Montes	B 1	X X X	X  X  Repr	B 4 President of to X United St X esentative in X Go	B 5 the United S X ates Senato X Congress 5 X vernor	B 6 tates  X  r  X  th District  X	X X X	B 8	X X X	X X 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	X X X	X X U	X  X  Repr	B 4 President of to X United St X esentative in X Go	B 5 the United S X ates Senato X Congress 5 X vernor	B 6 tates  X  r  X  th District  X	X X	X X X	X X X	X X X

Write-In						Х				
				tive in the G	eneral Assem		strict		•	
Harry Rider	X	X	X		X	X		X		X
Robert Tyrell				X			X		X	
Write-In			<u> </u>	1						
				sidential No	mination Del	egation			1	
Gloria Dillion	X	Х	Х				X	X		Х
Heather	X		X							X
Heidelbaugh		<u> </u>								
Herbert Devine	Х			X	X		X	U		X
George A. Fisk		X	ļ	+	V			U		+
Doris Shiddles		Х			Х					
Andre Ninia		<u> </u>	Х	V	V					+
Brian Getz Chad Snow				X	Х	Х				<del> </del>
Diane Rubin		<del> </del>		^		X			X	+
Elizabeth Piazza		<del> </del>				X	X		^	+
Write-In	-				1	^	^		Х	+
Write-In	-				1	-			X	+
Write-In					+					+
***************************************		1		Judge of th	e Superior Co	ourt			1	
Richard Maxian		T .		X	- Capcilor of	- 41.4				Х
Marjorie Hall		Х		<del></del>		Х				<del></del>
Robert L. Linkey	Х	<u> </u>	Х	1	X		Χ	Х	Х	†
Write-In		1	,,		1 .		<u> </u>			+
			Jur	dge of the C	ommonwealtl	h Court			1	-1
Chris Carpenter	Х	U	Х	X	X	Х	X	Х	Х	Х
Write-In										
ų.		.1	Jud	ge of the Co	urt of Commo	on Pleas			•	-1-
Mary L. Daniel		X	X	Х		Х	X	Х	X	
John Roy	X	X							Х	Х
Jack "Duke"	Х		Х		Х	Х		Х		Х
Brodisky	^		^		^	^		^		^
Jon Young				X						
Vic Stabile					X		X			
Write-In										
Write-In										
		T	г	County C	hief Executiv	<u>e</u>				
Norman Powers	X		L		X	Х		Х	Х	<del></del>
Sandra Reilly		Х	Х	Х			Х			Х
Write-In			<u> </u>	0-11-0	<u> </u>	- 0	1			
Carald Danasa		T V			rector Region	16				T V
Gerald Danson	U U	X		Х	X	X	<del>                                     </del>	X	X	Х
Greg Ortiz Shlomo Archibald			X	X	X	^	<del>                                     </del>	۸	^	X
Delores DeVan		+		_ ^	^	Х	<del>                                     </del>			<del>  ^</del>
Write-In		+	-	+	1	^	X			+
Write-In				+	+		Û			+
**************************************		1	<u> </u>	Commis	sioner Seat 2	<u> </u>			i	.1
Steve West	Х	T .	Х	X	X	X	Х	Х	U	Х
Write-In		Х		<u> </u>	<u> </u>		<u> </u>		<u> </u>	<del></del>
			<u> </u>	Refe	rendum A				l	_1
Yes	U		Х	X	X	Х	Х	Х	U	
No		Х								Х
Precinct 2 DEM	В	В	В	В	В	В	В	В	В	В
	1	2	3	4	5	6	7	8	9	10
					the United St				,	
Barry Josey	Χ	X		X		Χ		X		X
Calvin Marino			X		X		X			
Write-In				1					X	
		<del>-</del>			tates Senator	<u>r                                    </u>			1	
Oscar Draper	X		Х	Х			Х			X
							•	V		i
Carter McGaw Write-In		Х			X	Х		X	Х	+

			Repr	esentative ir	Congress 5	<sup>th</sup> District				
Barbara Barret Hicks			Х	Х	X		Х	Х	Х	Х
Clinton Testo		X				X				
Write-In	Х	^				^				
vviite-iii	^	1		G	vernor		l			
Charles Jasen	Х	Х	Х		X	Х	1	I	Х	
Shirley Henning	^	^	^	Х	^	^		X	^	Х
				^			X	^		^
Write-In				Liquton	ant Governo	-				
Sherman R.		1	I	Lieutena	Int Governo	r I	1	I		
		X						X		
Bucher Dishard V. Cuita										V
Richard V. Suits			V				V			Х
Tabathia Song			Х				Х			
Kenneth	X			X	X	X			X	
Interlicchio										
Write-In		l	<u> </u>	 	<u> </u>	- I. I Oorg D:	1-1-1			
D 1 411 "			Representa	tive in the G			strict			
R. J. Abbott	X	Х		X	Х	Х		Х	Х	
Peter F. Saxton			Х				X			Х
Write-In		J		-1.0- 41.121		 	J			
\			Pre	sidential No	mination De		T	I v		
Vincent Seymour		Х		Х		X	ļ.,,	Х	.,	.,
Toni Hamilton	Χ		Х		Х	X	Х		Х	X
Sam Patel		X		Х	ļ	Х	ļ	X		Х
Robert Rocco	Χ		X		X	Х	X	U	X	X
Renee Cohn	Х	<u> </u>	Х		Х		Х	U	Х	Х
Jubelrier								U		^
Morton Steele	Χ		X		X		X		X	
Mary Burke		X		X						
Nyda E. Hambin		X		X						
Write-In										
Write-In										
Write-In										
Write-In										
•		•		Judge of the	e Superior C	ourt	•			
Linda Gapp		X			•	Х		X		
Patricia Smallmon	Х		Х	Х	Х		Х		Х	Х
Write-In										
			Jud	ge of the Co	ommonwealt	h Court		I		
Eugene Ruff	Х	Х		X	X		Х	Х	Χ	
Lewis Tese		,	Х	,		Х		,		Х
Write-In										
TTILO III		J.	Jud	ge of the Co	urt of Comm	on Pleas	ı	l		
Joanne Shollzert	Х	Х	X		X	X	1	Х	Χ	Х
Kerry Jones	X	X	^	X	X	U	X		X	
Steven Miller	^	<del>  ^</del>	Х		^		X		^	Х
Shirley Henning		<del> </del>		Х	<del> </del>		^	Х		^
Write-In		1		<del>  ^</del>	+		<del> </del>	_ ^		
Write-In		<del>                                     </del>		+	-		<del>                                     </del>			
VVIILE-III		i	<u> </u>	County	l hief Executi	10	<u>i                                      </u>	<u> </u>		<u> </u>
Micheal		1	I	County C			1	I		
	Χ	1	X		X	X	X		X	
Santarcangelo Charles Place					-		-			
Charles Place		Х		Х	<del>                                     </del>		<del>                                     </del>	Х		Х
Write-In		1	l	Cohool Di	lester Desi-	n 6	<u> </u>	I		
D 1 0′		1 1/	ı	School Dil	ector Regio	n 6		ı		
Douglas Stone		X					U		X	.,
Gerald Danson	.,	Х		Х	<b>_</b>	Х	U	Х	Х	X
Greg Ortiz	Χ	ļ	Х				ļ			Х
Shlomo Archibald			Х	Х		Х		Х		
Delores DeVan	Χ				X					
Write-In					X					
Write-In										
					sioner Seat					
Tetty Rogiers	Х	X	X	X	U	X	X	X	X	Х
Write-In										

				Refe	rendum A					
Yes	Х	X	U	Х	U		U	Х	Х	
No						X				X
Precinct 3 REP	В	В	В	В	В	В	В	В	В	В
	1	2	3	4	5	6	7	8	9	10
James Collins	X	X	<u> </u>	President of │ ∪	the United S			X		X
Alexander P.	^			0	X	X	X	^		
Bicket							\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Carol Koethen			X						Χ	
Write-In										
		-	•	United S	tates Senato		T	1		-
Bob Ford	U	- V	ļ			Х	, , , , , , , , , , , , , , , , , , ,		X	
Colby Lincoln Write-In	+	X	X	X	X		X	Х	+	X
wnie-in			Renre	sentative in	Congress 1	Oth District				
Cheryl Simon		X	Repre	X	Congress				Χ	
Lois Koss	Х	1	Х		Х	Х	Х	Х	1	Х
Write-In										
					vernor					
Dean Lindsey		1	V	X			Х			
Don Etter	\ \ \	1	Х		Х	V			\ \ \	
Joe Carlton Edwin Lewis	X	X				X			X	X
Samuel Lawton	+	^						X	+	
Write-In							<u> </u>	<del>                                     </del>	1	
	•	1	1	Lieutena	ant Governo	r	1	•	•	1
Scott Montes	Χ		Χ			X		X		
Saul Currier				X						X
Arnold Krill		X	ļ		Х		Х		Х	
Write-In			Poprosonta	ive in the G	operal Asso	mbly 84 <sup>rd</sup> Die	etrict			
Peter Valle	X	X	X	X	U U	X	X		Х	X
Write-In	1		1	+^-	-	, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,	X	1	+ ^ -
	1	-	Pre	sidential No	mination De	legation	1	1	1	· ·
Gloria Dillion	X				Х	Ū	X			
Heather	Х					U		X	X	
Heidelbaugh										
Herbert Devine George A. Fisk	Х			1	X	U	X			X
Doris Shiddles		X		+	^		^			
Andre Ninia	+	X		X				X	+	
Brian Getz		†	Х	1				X	1	Х
Chad Snow			X	Х					Χ	X
Diane Rubin			Χ							
Elizabeth Piazza	1	1		Х						
Write-In	+	1							Х	
Write-In Write-In	+	+							+	
vv111C-111		_1		Judge of th	e Superior C	Court		1		
Richard Maxian			Χ	Juage of th	Jupanion		Х			X
Marjorie Hall		1	1		Х			Х		1
Robert L. Linkey	Χ	Х		Х		Х			Χ	
Write-In			_							
01.1.0	T	Lv	Jud	dge of the Co			Lv	T v	T	Lv
Chris Carpenter	U	Х	Х	\ \ \	X	Х	Х	Х	U	Х
Write-In	1		lud	X ge of the Co	urt of Comm	on Pleas	<u> </u>	1	1	1
Mary L. Daniel		Ιυ	X	X	X	IOII FIEdS	Х	Х	Х	X
John Roy	1	Ü	^	X	^		^		X	
Jack "Duke"	X	†	X	1.	Х	Х		Х	<del></del>	X
Brodisky										
Jon Young						Χ				
Vic Stabile	1					Î .	Х		Ī	î .

Muita In	TV	T	F		1	T	1	1		<u> </u>
Write-In	Х	+	+	+					+	
Write-In				1 2 1 2	 	I .	<u> </u>			
	1	Т	Lv		hief Executi		1		T	
Norman Powers	Х		X	X		X	X		X	
Sandra Reilly		X			X			X		X
Write-In										
				School Di	rector Regio	n 6				
Gerald Danson		X	X			X		X		X
Greg Ortiz			Х	X				X	X	
Shlomo Archibald	Х	Х		X	X	Х	Х		X	X
Delores DeVan	Х				Х		Х			
Write-In										
Write-In										
	1	1		Commis	sioner Seat	3	1			-
William Malicki	Х	Х	X		X	Ī	Χ	X	X	X
Gary Klemann	1	1	1	X	1	Х	,	1		
Write-In		+		, A						
VVIIIC III	1	1		Pofo	rendum A					
Yes	Х	1	Х	IVEIG	X	Х	1	Х	Х	
No	^	X	^	Х	^	^	Х	^	^	X
INO				1 ^						^
Dunningt 2 DEM										
Precinct 3 DEM	В	В	В	B 4	В	В	В	В	В	B
	1	2	3		5	6	7	8	9	10
Dame Inc.	1	1		President of	the United S		1			
Barry Josey				X		X		X		
Calvin Marino	Х		Х		Х		Х		X	X
Write-In		Х								
					tates Senato					
Oscar Draper		X		X	X	Х		X	X	
Carter McGaw	Х		X				Х			X
Write-In										
			Repre	esentative in	Congress 1	0 <sup>th</sup> District				
William Sullivan	X	X	X	X	X	X	X	U	X	X
Write-In										
				Go	overnor					
Charles Jasen	X		U	X	X		X		X	
Shirley Henning		X				X				X
Write-In								Х		
	•	•	•	Lieutena	ant Governo	r	•		•	
Sherman R.		. V			. v					
Bucher		X	X		X			Х		
Richard V. Suits										Х
Tabathia Song							Х			
Kenneth	V			V		V				
Interlicchio	X		1	Х		Х			X	1
Write-In			1							<del> </del>
	u.		Representa	tive in the G	eneral Asse	mbly 84 <sup>rd</sup> Dis	strict			•
Neil Carey	Х	Х	1	X	1	X	X	Х		X
Saul Currier			Х	1	Х			1	Х	<del>                                     </del>
Write-In	1		<del>† ^ </del>	1	, · · ·	1	<b>†</b>		<del>                                     </del>	+
	II.	II.	Pre	sidential No	mination De	legation	1	1		-
Vincent Seymour			U	1	X		Х		X	1
Toni Hamilton	Х	Х	U	Х		Х	<del>  ^</del>	Х	<del>  ^</del>	+
Sam Patel		<del></del>	U	<del>  ^</del>	X		Х	<del>                                     </del>	X	+
Robert Rocco	Х	Х	U	X	Û	Х		X	<del>  ^</del>	+
Renee Cohn			<del>                                     </del>				<u> </u>		+	+ -
Jubelrier	Х	Х	1	X	U	X		Х	1	
Morton Steele	Х	U	+	X	1	Х	1	Х	+	+
Mary Burke		1 0	+		1		Х	^	X	+
Nudo E Llombia	1	+	+	+	1	<b> </b>	X	+	<del>  ^</del>	+
Nyda E. Hambin	1	+	+	+	1	1	_ ^			<b>— — —</b>
Write-In	1	1	+	1		1	1		X	X
Write-In			1	1	1	-	<u> </u>	-	+	X
Write-In	ļ	1	<del>                                     </del>	1		1	1			X
Write-In				1	<u> </u>	1				X
				Judge of th	e Superior C	Court				

Linda Conn			Х	1		Х		Х		1
Linda Gapp	X		۸	V		۸		۸		V
Patricia Smallmon	Х	Х		Χ	Χ		Χ		Х	Х
Write-In										
			Judg	ge of the Co	mmonwealt			1		ı
Eugene Ruff	X	Х		Х		Х	X		Х	
Lewis Tese			X		Χ			Χ		X
Write-In										
				e of the Cou						
Joanne Shollzert		X	Х		Х	X		X	X	
Kerry Jones			X	Χ	Χ	U	Χ	X		
Steven Miller		X					Χ		X	X
Shirley Henning				Χ						Х
Write-In	X									
Write-In	Χ									
				County Ch	ief Executiv	/e				
Micheal	Х		×	Х		x	Χ		Х	Х
Santarcangelo			^	^		^				^
Charles Place					X			X		
Write-In		X								
				School Dire	ector Region	n 6				
Douglas Stone	Χ		X					X		
Gerald Danson		X	X	Χ	Х	X				X
Greg Ortiz	Χ			Х					Χ	
Shlomo Archibald		X			Χ		Χ	X	X	X
Delores DeVan						X	Χ			
Write-In										
Write-In										
					ioner Seat					
Arnold Wells	Х	X	X	Х	Х	Х	Х		X	Х
Write-In								X		
				Refere	endum A					
Yes	Х		X		Х		Х		Х	
No		Х		Х		Х		X		Х

## **Test Results:**

## Precinct 1 REP

**President of the United States** James Collins Alexander P. Bicket Carol Koethen Write-In Undervotes

United States Senator Bob Ford 3 Colby Lincoln 6 Write-In 1 Undervotes 0

# Representative in Congress 5th District Ben Baker 8

Write-In Undervotes

### Governor

Dean Lindsey Don Etter 2

Joseph		
Same Lawon         1           Write-In         0           Undervoire         0           Undervoire         2           Amolt Krill         5           Write-In         1           Undervoire         6           Representative in the General Assembly 83rd District           Harry Ruler         6           Representative in the General Assembly 83rd District           Harry Ruler         6           Robert Typell         3           Write-In         1           Undervoire         7           Persidential Nomination Delegation         6           Gloria Dillion         7           Heather Devine         7           Post Shiddles         2           Andro Nina         1           Brian Getz         3           Chad Stow         1           Dauge Robin         1           Write-In         2           Londervoire         0           Judge of the Superior Court           Richard Muston         2           Robert L. Linkey         4           Write-In         0           Undervoires         1           Jake Table Boulder <td>Joe Carlton</td> <td>4</td>	Joe Carlton	4
Same Lawon         1           Write-In         0           Undervoire         0           Undervoire         2           Amolt Krill         5           Write-In         1           Undervoire         6           Representative in the General Assembly 83rd District           Harry Ruler         6           Representative in the General Assembly 83rd District           Harry Ruler         6           Robert Typell         3           Write-In         1           Undervoire         7           Persidential Nomination Delegation         6           Gloria Dillion         7           Heather Devine         7           Post Shiddles         2           Andro Nina         1           Brian Getz         3           Chad Stow         1           Dauge Robin         1           Write-In         2           Londervoire         0           Judge of the Superior Court           Richard Muston         2           Robert L. Linkey         4           Write-In         0           Undervoires         1           Jake Table Boulder <td>Edwin Lewis</td> <td>1</td>	Edwin Lewis	1
	Write-In	0
Scott Montes	Undervotes	
Scott Montes   2	Ulidel votes	0
Scott Montes   2		
Scott Montes   2	Lieutenant Governor	
Saul Carvier		2
Amolk Kirll 5 Write-In 1 Undervotes 0  Representative in the General Assembly 83rd District Harry Roler		
Write-Indervores         1           Undervores         0           Representative in the General Assembly 83rd District           Harry Riden         8           Write-In         1           Undervores         0           Presidential Nomination Delegation         6           Gloria Dillion         7           Heather Heidelbaugh         3           Heather Devine         7           Ports Shidalis         2           Andre Ninis         1           Brian Getz         3           Chad Snow         1           Diane Rubin         1           Blizabeth Plazza         1           Vinite-In         2           Undervores         1           Judge of the Superior Court         Richard Maxian           Write-In         2           Undervores         1           Judge of the Commonwealth Court           Circlis Cappenier         9           Write-In         0           Undervores         1           Judge of the Court of Common Pleas           May L. Daniel         7           Son Time Edity         7           Son Time Edity         3	Saul Currier	2
Write-Indervores         1           Undervores         0           Representative in the General Assembly 83rd District           Harry Riden         8           Write-In         1           Undervores         0           Presidential Nomination Delegation         6           Gloria Dillion         7           Heather Heidelbaugh         3           Heather Devine         7           Ports Shidalis         2           Andre Ninis         1           Brian Getz         3           Chad Snow         1           Diane Rubin         1           Blizabeth Plazza         1           Vinite-In         2           Undervores         1           Judge of the Superior Court         Richard Maxian           Write-In         2           Undervores         1           Judge of the Commonwealth Court           Circlis Cappenier         9           Write-In         0           Undervores         1           Judge of the Court of Common Pleas           May L. Daniel         7           Son Time Edity         7           Son Time Edity         3	Arnold Krill	5
Representative in the General Assembly 83rd District  Harry Rider Robert 1yrell 3 Write-In 1 Undervotes 0  Presidential Nomination Delegation Glorian Dillicon Heather Heidelbaugh 3 Herbert Devine 6 George A. Frisk 2 Doris Shiddles 2 Doris Shiddles 3 Andre Nima 1 Brian Getz 3 Harder Harza 1 Harbert Heidelbaugh 1 Harbert Heidelbaugh 2 Harbert Heidelbaugh 3 Herbert Devine 6 George A. Frisk 2 Doris Shiddles 3 Londis Nima 1 Harbert Heidelbaugh 3 Herbert Devine 6 Harbert Heidelbaugh 3 Herbert Devine 6 Harbert Heidelbaugh 3 Herbert Devine 6 Harbert Harbert 3 Harbert Harbert 4 Harbert Harbert 4 Harbert 4 Harbert 4 Harbert 5 Harbert 5 Harbert 5 Harbert 6 Harbert 6 Harbert 7 Harbert 8 Harbert 8 Harbert 8 Harbert 8 Harbert 8 Harbert 8 Harbert 9 Harbert 8 Harbert 9 Harbert 8 Harbert 9 Harbert 8 Harbert 9 Ha		
Representative in the General Assembly 83rd District  Harry Rider Robert 1yrell 3 Write-In 1 Undervotes 0  Presidential Nomination Delegation Glorian Dillicon Heather Heidelbaugh 3 Herbert Devine 6 George A. Frisk 2 Doris Shiddles 2 Doris Shiddles 3 Andre Nima 1 Brian Getz 3 Harder Harza 1 Harbert Heidelbaugh 1 Harbert Heidelbaugh 2 Harbert Heidelbaugh 3 Herbert Devine 6 George A. Frisk 2 Doris Shiddles 3 Londis Nima 1 Harbert Heidelbaugh 3 Herbert Devine 6 Harbert Heidelbaugh 3 Herbert Devine 6 Harbert Heidelbaugh 3 Herbert Devine 6 Harbert Harbert 3 Harbert Harbert 4 Harbert Harbert 4 Harbert 4 Harbert 4 Harbert 5 Harbert 5 Harbert 5 Harbert 6 Harbert 6 Harbert 7 Harbert 8 Harbert 8 Harbert 8 Harbert 8 Harbert 8 Harbert 8 Harbert 9 Harbert 8 Harbert 9 Harbert 8 Harbert 9 Harbert 8 Harbert 9 Ha	Undervotes	0
Harry Rider Robert Tyroll		
Harry Rider Robert Tyroll		
Harry Rider Robert Tyroll		
Harry Rider Robert Tyroll	Representative in the Gener	ral Assembly 83rd District
Rober Tyrel		
Write-In Undervotes         0           Presidential Nomination Delegation Gloria Dillion         7           Herbert Devine         7           Grong A. Fisk         2           Doris Shiddles         2           Andre Ninia         1           Brian Getz         3           Load Snow         1           Diane Rubin         1           Brian Getz         3           Loudervotes         0           Judge of the Superior Court         1           Richard Maxim         2           Marjore Hall         2           Robert L Linkey         4           Write-In         1           Undervotes         1           Judge of the Commonwealth Court           Crisis Carpenter         9           Write-In         0           Undervotes         1           Judge of the Court of Commonwealth         0           Write-In         0           John Roy         1           Jack "Duke" Brotisky         7           John Roy         1           Jack "Duke" Brotisky         7           John Young         1           Undervotes         2 <td>narry Rider</td> <td></td>	narry Rider	
Write-In Undervotes         0           Presidential Nomination Delegation Gloria Dillion         7           Herbert Devine         7           Grong A. Fisk         2           Doris Shiddles         2           Andre Ninia         1           Brian Getz         3           Load Snow         1           Diane Rubin         1           Brian Getz         3           Loudervotes         0           Judge of the Superior Court         1           Richard Maxim         2           Marjore Hall         2           Robert L Linkey         4           Write-In         1           Undervotes         1           Judge of the Commonwealth Court           Crisis Carpenter         9           Write-In         0           Undervotes         1           Judge of the Court of Commonwealth         0           Write-In         0           John Roy         1           Jack "Duke" Brotisky         7           John Roy         1           Jack "Duke" Brotisky         7           John Young         1           Undervotes         2 <td>Robert Tyrell</td> <td>3</td>	Robert Tyrell	3
	Write-In	1
Presidential Nomination Delegation   Glonia Dillion   7		
Herbert Devine	Undervotes	0
Herbert Devine		
Herbert Devine	Presidential Nomination De	legation
Heather Heidelbaugh 3 Herhert Devine 7 Goorge A. Fisk 2 Corris Shiddles 2 Andre Shina 1 Brian Getz 3 Chad Snow 1 Diane Rubin 1 Elizabeh Piazza 1 Virte-In 2 Undervotes 0  Judge of the Superior Court Virte-In 1 Undervotes 1  Judge of the Court of Commonwealth Court Chris Capenter 9 Virte-In 0 Undervotes 1  Judge of the Court of Commonwealth Court Chris Capenter 9 Virte-In 0 Undervotes 1  Judge Of the Court of Commonwealth Court Chris Capenter 9 Virte-In 0 Undervotes 1  Judge Of the Court of Commonwealth Court Chris Capenter 9 Virte-In 0 Undervotes 1  Judge Of the Court of Commonwealth Court Chris Capenter 9 Virte-In 0 Undervotes 1  Judge Of the Court of Commonwealth Court Chris Capenter 9 Virte-In 0 Undervotes 1  Judge Of the Court of Commonwealth Court Of Commonwealth Court Of Commonwealth Court Of Cour		
	Heather Heidelbaugh	3
	George A. Fisk	2
Andre Ninia   1 Brian Getz   3 Chad Snow   1 Diane Rubin   1 Elizabeth Piazza   1 Write-In   2 Rubert Charles   9 Write-In   0 Undervotes   1  Viderotes   2  County Chif Executive   1  Viderotes   3  Vivire-In   1  Underotes   0  Viderotes   0  V		
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	Brian Getz	3
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	Diane Rubin	1
Write-In         2           Undervotes         0           Judge of the Superior Court         Richard Maxian           Richard Maxian         2           Marjorie Hall         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 Common Pleas           Mary L. Daniel         7           John Roy         1           Jack "Duke" Brodisky         7           Jon Young         1           Vic Stabile         1           Undervotes         2           County Chief Executive           Norman Powers         7           Sandra Reilly         3           Write-In         0           Undervotes         0           School Director Region 6         -           Gerald Danson         5           Grog Oriz         4           Shlomo Archibald         8           Delores DeVan         3           Wr	Elizabeth Diazza	1
	Write-In	2
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	Richard Mayian	
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Chris Carpenter         9           Write-In         0           Undervotes         1           Judge of the Court of Common Pleas           Mary L. Daniel         7           John Roy         1           Jack "Duke" Brodisky         7           Jon Young         1           Vic Stabile         1           Write-In         1           Undervotes         2           County Chief Executive           Norman Powers         7           Sandra Reilly         3           Write-In         0           Undervotes         0           School Director Region 6         5           Gerald Danson         5           Greg Ortiz         4           Shlomo Archibald         8           Delores DeVan         3           Write-In         0           Undervotes         0		
Chris Carpenter         9           Write-In         0           Undervotes         1           Judge of the Court of Common Pleas           Mary L. Daniel         7           John Roy         1           Jack "Duke" Brodisky         7           Jon Young         1           Vic Stabile         1           Write-In         1           Undervotes         2           County Chief Executive           Norman Powers         7           Sandra Reilly         3           Write-In         0           Undervotes         0           School Director Region 6         5           Gerald Danson         5           Greg Ortiz         4           Shlomo Archibald         8           Delores DeVan         3           Write-In         0           Undervotes         0		
Chris Carpenter         9           Write-In         0           Undervotes         1           Judge of the Court of Common Pleas           Mary L. Daniel         7           John Roy         1           Jack "Duke" Brodisky         7           Jon Young         1           Vic Stabile         1           Write-In         1           Undervotes         2           County Chief Executive           Norman Powers         7           Sandra Reilly         3           Write-In         0           Undervotes         0           School Director Region 6         5           Gerald Danson         5           Greg Ortiz         4           Shlomo Archibald         8           Delores DeVan         3           Write-In         0           Undervotes         0	Judge of the Commonwealt	h Court
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Stephen Harrick	8
Write-In	
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Referendum A	
Yes	6
No	3
Undervote	1
Precinct 1 DEM	
<b>President of the United States</b>	
Barry Josey	2
Calvin Marino	6
Write-In	1
Undervotes	1
United States Senator	
Oscar Draper	7
Carter McGaw	3
Write-In	0
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Write-In	
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Governor	
Charles Jasen	5
Shirley Henning	4
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Lieutenant Governor	
Sherman R. Bucher	
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Representative in the General	
R. J. Abbott	5
Peter F. Saxton	3
Write-In	1
Undervotes	1
Presidential Nomination Deleg	gation
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
<b>Judge of the Commonwealth C</b> Eugene Ruff	
Lavia Tasa	6
Lewis Tese	4

Write-In	0
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Judge of the Court of Common	n Dlong
Joanne Shollzert	7
Kerry Jones	7
Steven Miller	3
Shirley Henning	2
Write-In	1
Undervotes	0
C. A. Chieff	
County Chief Executive	
Micheal Santarcangelo	7
Charles Place	3
Write-In	0
Undervotes	0
School Director Region 6	
Douglas Stone	3
Gerald Danson	7
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Greg Ortiz	3
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Precinct 2 REP  President of the United States James Collins Alexander P. Bicket Carol Koethen Write-In Undervotes  United States Senator Bob Ford Colby Lincoln Write-In Undervotes  Representative in Congress 5th Ben Baker Write-In Undervotes  Governor Dean Lindsey Don Etter Joe Carlton Edwin Lewis	5 2 2 1 0 3 6 1 0 <b>District</b> 6 2 2 2
Precinct 2 REP  President of the United States James Collins Alexander P. Bicket Carol Koethen Write-In Undervotes  United States Senator Bob Ford Colby Lincoln Write-In Undervotes  Representative in Congress 5th Ben Baker Write-In Undervotes  Governor Dean Lindsey Don Etter Joe Carlton Edwin Lewis	5 2 2 1 0 0 3 6 1 0 0 h District 6 2 2 2 2
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Lieutenant Governor	
Scott Montes	2
Saul Currier	3
Arnold Krill	4
Write-In	İ
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Representative in the General	
Harry Rider	7
Robert Tyrell	3
Write-In	0
Undervotes	0
Presidential Nomination Deleg	retion
Claria Dillian	
Gloria Dillion	6
Heather Heidelbaugh	3
Herbert Devine	5
George A. Fisk	1
Doris Shiddles	2
Andre Ninia	1
Brian Getz	2
Chad Snow	$\frac{1}{2}$
Diane Rubin	$\frac{2}{2}$
	2
Elizabeth Piazza	2
Write-In	2
Undervotes	2
Judge of the Superior Court	
Richard Maxian	2
Marjorie Hall	2
Robert L. Linkey	6
Write-In	
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Undervotes	0
Judge of the Commonwealth C	
Chris Carpenter	9
Write-In	0
Undervotes	1
Judge of the Court of Common	n Pleas
Mary L. Daniel	7
John Roy	4
Jack "Duke" Brodisky	6
Jon Young	
Vic Stabile	2
Write-In	
Undervotes	0
County Chief Executive	
Norman Powers	5
Sandra Reilly	5
Write-In	0
Undervotes	0
School Director Region 6	
Gerald Danson	6
Greg Ortiz	5
Shlomo Archibald	4
Delores DeVan	1
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Undervotes	3
Commissioner Seat 2	
Steve West	0
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Write-In	
Undervotes	1
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Referendum A	
Yes	6
No	2
Undervote	2

D : (2 DE)	
Precinct 2 DEM	
President of the United States	
Barry Josey Calvin Marino	6
Write-In	3 1
Undervotes	0
Officervotes	
United States Senator	
Oscar Draper	5
Carter McGaw	3
Write-In	$\frac{3}{2}$
Undervotes	0
Representative in Congress 5th	h District
Barbara Barret Hicks	7
Clinton Testo	2
Write-In	1
Undervotes	0
Governor	
Charles Jasen	6
Shirley Henning	3
Write-In	
Undervotes	0
**	
Lieutenant Governor	
Sherman R. Bucher	
Richard V. Suits	
Tabathia Song Kenneth Interlicchio	2 5
Write-In	
Undervotes	$0 \\ 0$
Undervotes	
Representative in the General	Assambly 83rd District
R. J. Abbott	7
Peter F. Saxton	3
Write-In	$\stackrel{\circ}{0}$
Undervotes	0
Presidential Nomination Deleg	gation
Vincent Seymour	4
Toni Hamilton	7
Sam Patel	5
Robert Rocco	7
Renee Cohn Jubelrier	6
Morton Steele	5
Mary Burke	2
Nyda E. Hambin	2
Write-In	0
Undervotes	2
T. L. CAL G G	
Judge of the Superior Court	2
Linda Gapp Patricia Smallmon	3 7
Write-In	$\stackrel{\prime}{0}$
Undervotes	$0 \\ 0$
Chaci voics	
Judge of the Commonwealth (	Court
Eugene Ruff	7
Lewis Tese	3
Write-In	$\stackrel{\circ}{0}$
Undervotes	$\stackrel{\circ}{0}$
Judge of the Court of Commo	n Pleas
Joanne Shollzert	8
Kerry Jones	6

Steven Miller	3
Shirley Henning	2
Write-In	0
Undervotes	1
Offices votes	
<b>County Chief Executive</b>	
Micheal Santarcangelo	6
Charles Place	4
Write-In	$\overset{ au}{0}$
Undervotes	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
Commissioner Seat 2	
	0
Tetty Rogiers	9
Write-In	0
Undervotes	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
Tinta I State State	
United States Senator	
Bob Ford	2
Colby Lincoln	6
Write-In	1
Undervotes	1
Officer votes	ı
Representative in Congress 1	Oth District
Cheryl Simon	3
Lois Koss	7
Write-In	
Undervotes	0
Governor	
Dean Lindsey	2
	2
Don Etter	2
Joe Carlton	4
Edwin Lewis	1
Samuel Lawton	Î
Write-In	0
Undervotes	0
Lieutenant Governor	
Scott Montes	4
Saul Currier	2
Arnold Krill	4
Write-In	0
Undervotes	$\stackrel{\circ}{0}$
Onder votes	· ·
Representative in the General	l Assembly 84rd District
Peter Valle	8
-	

Write-In	1
Undervotes	1
0.0000	
Presidential Nomination Dele	orgation
Gloria Dillion	3
Gioria 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
Judge of the Superior Court	
Richard Maxian	2
	3
Marjorie Hall	2 5
Robert L. Linkey	
Write-In	0
Undervotes	0
-	
Judge of the Commonwealth	Court
Chris Carpenter	
Chris Carpenter	7
Write-In	1
Undervotes	2
Judge of the Court of Commo	on Pleas
Mary L. Daniel	7
John Roy	2
John Koy	
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	$\stackrel{2}{0}$
Undervotes	0
Referendum A	
Yes	6
No	4
Undervote	0
Precinct 3 DEM	
President of the United States	s.
resident of the United States	,

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 Congres	s 10th District
William Sullivan	9
Write-In	0
Undervotes	1
Governor	
Charles Jasen	5
Shirley Henning	3
Write-In	1
Undervotes	1
Lieutenant Governor	
Sherman R. Bucher	4
Richard V. Suits	1
Tabathia Song	Ĩ
Kenneth Interlicchio	4
Write-In	0
Undervotes	0
Representative in the Gene	eral Assembly 84rd District
Neil Carey	7
Saul Currier	3
Write-In	$\stackrel{\circ}{0}$
Undervotes	0
Presidential Nomination D	elegation
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	Ī
Write-In	5
Undervotes	7
Judge of the Superior Cou	
Linda Gapp	3
Patricia Smallmon	7
Write-In	0
Undervotes	$\stackrel{\circ}{0}$
Chaci voics	
Judge of the Commonweal	th Court
Eugene Duff	
Eugene Ruff	6
Lewis Tese	4
Write-In	0
Undervotes	0
Judge of the Court of Com	mon Pleas
Joanne Shollzert	6
Kerry Jones	5
Steven Miller	4
Shirley Henning	2
Write-In	2
Undervotes	Ī
County Chief Executive	
County Chici Executive	

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

Lieutenant Governor	
Scott Montes	8
Saul Currier	7
Arnold Krill	13
Write-In	2
Undervotes	0
Representative in the General	Assembly 83rd District
Harry Rider	13
Robert Tyrell	6
Write-In	1
Undervotes	0
	11.04.179.44
Representative in the General	Assembly 84rd District
Peter Valle	8
Write-In	1
Undervotes	1
Presidential Nomination Deleg	ration
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	
	7
Richard Maxian	7
Marjorie Hall	6
Robert L. Linkey	15
Write-In	
	1
Undervotes	1
Judge of the Commonwealth C	Court
Chris Carpenter	25
Write-In	1
Undervotes	4
Judge of the Court of Common	n Pleas
Mage 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
<b>County Chief Executive</b>	
County Chief Executive	10
Norman Powers	18
Sandra Reilly	12
Write-In	0
Undervotes	0
Officer votes	
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
Write-In	
Undervotes	
Chacivotes	•
Camanianianan Saad 2 DED	
Commissioner Seat 2 REP	
Steve West	8
Write-In	1
Undervotes	1
Commissioner Seat 3 REP	
William Malicki	8
Gary Klemann	2
Write-In	0
Undervotes	0
Undervotes	0
D.C I A DED	
Referendum A REP	
Yes	18
No	9
Undervote	3
<b>Cumulative Totals DE</b>	M:
Cumulative Totals DE	A140
President of the United States	
Barry Josey	11
Calvin Marino	15
Write-In	3
Undervotes	1
United States Senator	
Oscar Draper	18
Carter McGaw	10
Write-In	2
Undervotes	0
Representative in Congress 5tl	n District
Barbara Barret Hicks	13
Clinton Testo	5
Write-In	2
Undervotes	0
Chacryotes	·
Representative in Congress 10	th District
William Sullivan	
	9
Write-In	
Undervotes	1
Governor	
Charles Jasen	16
Shirley Henning	10
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 General	Assembly 83rd District
R. J. Abbott	12
Peter F. Saxton	6
Write-In	
Undervotes	1
	A DATE OF THE PARTY OF THE PART
Representative in the General	
Neil Carey	7
Saul Currier	3

Write-In	0
Undervotes	0
Chacryotes	·
Desire del Novembre Dele	
Presidential Nomination Deleg	
Vincent Seymour	10
Toni Hamilton	17
Sam Patel	11
Robert Rocco	17
Renee Cohn Jubelrier	16
Morton Steele	13
Mary Burke	6
Nyda E. Hambin	4
Write-In	10
Undervotes	16
Chacivotes	10
Judge of the Superior Court	
Linda Gapp	8
Patricia Smallmon	21
Write-In	1
Undervotes	0
Olidel votes	v
T 1 60 C	
Judge of the Commonwealth (	
Eugene Ruff	19
Lewis Tese	11
Write-In	$\stackrel{\cdot}{0}$
Undervotes	$\stackrel{\circ}{0}$
Officer votes	v
Judge of the Court of Commo	
Joanne Shollzert	21
Kerry Jones	18
Steven Miller	10
Shirley Henning	6
Write-In	3
Undervotes	2
<b>County Chief Executive</b>	
Mind of County Cities Executive	20
Micheal Santarcangelo	20
Charles Place	9
Write-In	1
Undervotes	0
Calcal Discator Danier (	
School Director Region 6	
Douglas Stone	8
Gerald Danson	19
Greg Ortiz	9
Shlomo Archibald	15
Delores DeVan	6
Write-In	
Undervotes	2
Commissioner Seat 1 DEM	
George Fisk	10
Write-In	0
Undervotes	$\stackrel{\circ}{0}$
Chidel voics	V
Commissioner Seat 2 DEM	
Tetty Rogiers	9
Write-In	
Undervotes	1
Commissioner Seat 3 DEM	
Arnold Wells	9
Write-In	1
Undervotes	0
Referendum A DEM	
Yes	15
No	11
Undervote	4

# **Cumulative Totals Non Partisan:**

**Referendum A** Yes 33 20 7 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 2a	Precinct 2b	Precinct 3
Straigh	nt Party	
		nt
or insert the nam	es of candidates	
•	Straigh President/Vice Preside	Precinct 2a Precinct 2b  Straight Party  President/Vice President of the United States  Yote for the Candidate of One Party for President and Vice President or insert the names of candidates

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

Derek Carlson	Write-In
Libertarian	
Write-In	
	ludge of the Superior Court
	Judge of the Superior Court
	Vote for One
Robert L .Linkey	
Republican	
·	
Patricia Smallmon	
Democratic	
Bemodratio	
Write-In	
vvnte-in	
	Judge of the Commonwealth Court
	Vote for One
	Vote 16. C.10
Chris Carpenter	
Danielia de	
Republican	
Eugene Ruff	
Democratic	
Write-In	
	Judge of the Court of Common Pleas
	Judge of the Court of Common Fleas
	Vote for Not More Than Two
Mary L. Daniel	
Republican	
Jack "Duke" Brodisky	
Republican	
republican	
Joanne Schollzert	
Democratic	
Kerry Jones	
Democratic	
Write-In	
Write-In	
VVIII.E-III	
	County Chief Executive
	Four Year Term
	Vote for One
Norman Powers	
Republican	
Micheal Santarcangelo	
Democratic	
Write-In	
	County Controller
	Four Year Term
	Vote for One
	vote for one
Paul M Bertel-Lincoln	
Republican	

Donna Berke

Democratic

Write-In

**District Attorney** 

Four Year Term Vote for One

Franklin Margo

Republican

Donald Hensley

Democratic

Write-In

School Director Region 6

Four Year Term Vote for Not More Than Two

Gerald Danson

Republican/Democratic

Shlomo Archibald

Republican/Democratic

Write-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
Write-In	Write-In	Write-In

# Statewide Referendum Water and Sewer Improvements Bond Referendum

Do you favor the incurring of indebtedness by the Commonwealth of \$400,000,000 for grants and loans to municipalities and public utilities for the cost of all labor, materials, necessary operational machinery and equipment, lands, property, rights and easements, plans and specifications, surveys, estimates of costs and revenues, prefeasibility studies, engineering and legal services and all other expenses necessary or incident to the acquisition, construction, improvement, expansion, extension, repair or rehabilitation of all or part of the drinking water system, storm water, nonpoint source projects, nutrient credits and wastewater treatment system projects?

Yes

No

#### **Retention of Tony Grzanich**

Shall Tony Grzanich be retained for an additional term as Justice of the Supreme Court of the Commonwealth of Pennsylvania?

Yes

[ NIa			
No			
	Retention	on of Debbie Marks	
Shall Debbie Marks be reta	ained for an additional term as J	ustice of the Supreme Court of the Con	nmonwealth of Pennsylvania?
Yes			
No			
a			
Spanish Distrito electoral 1	Distrito electoral 2a	Distrito electoral 2b	Distrito electoral 3
		artido íntegro	
Republicano			
Demócrata			
Verde			
Libertario			
	Presidente/Vicepre	sidente de los Estados Unidos	
	Vote para el candidato de un	n partido para presidente y vicepresider nombres de los candidatos	ite
James Collins	0 moonto 100 i		
Arthur Remus			
Republicano			
Calvin Marino Keith Satterwhite			
Demócrata			
John P. Defazio Louis Denn			
Verde			
June Perkins David Heroux			
Libertario			
Por escrito			
		le los Estados Unidos	
	·	Vote por uno	
Colby Lincoln  Republicano			
Oscar Draper Demócrata			
Eric Sheely <i>Libertario</i>			
Por escrito			
	Representante en el Con 5º Distrito	greso	Representante en el
	Vote por uno		Congreso 10.° Distrito
Ben Baker			Vote por uno
Republicano			Lois Koss

	Republicano
Barbara Barret Hicks  Demócrata	William Sullivan  Demócrata
Por escrito	Por escrito
Gobernador/N	ricegobernador
Vote para el candidato de un partid	o para gobernador y vicegobernador
Joe Carlton Arnold Krill Republicano	
Charles Jasen Kenneth Interlicchio Demócrata	
Robert Marsh Theodore Kopp Verde	
Por escrito	
Representante en la Asamblea General 83.° Distrito	Representante en la Asamblea General 84.° Distrito
Vote por uno	Vote por uno
Harry Rider Republicano	Peter Valle Republicano
R. J. Abbott  Demócrata	Neil Carey  Demócrata
Derek Carlson <i>Libertario</i>	Por escrito
Por escrito	
	orte suprema
Vote	por uno
Robert L. Linkey Republicano	
Patricia Smallmon Demócrata	
Por escrito	
	orte del estado por uno
	50. 410
Chris Carpenter Republicano	
Eugene Ruff Demócrata	
Por escrito	
Juez de la corte de No vote po	primeras instancias r más de dos
Mary L. Daniel	

Danublicana	
Republicano	
Jack "Duke" Brodisky	
Republicano	
Joanne Schollzert	
Demócrata	
Kerry Jones	
Demócrata	
Domoorata	
Por escrito	
1 of esolite	
Por escrito	
FOI ESCITIO	
	Jefe principal del condado
	Término de cuatro años
	Vote por uno
Norman Powers	
Republicano	
Micheal Santarcangelo	
Demócrata	
Por escrito	
	Contralor del condado
	Término de cuatro años
	Vote por uno
B 145 (11)	
Paul M Bertel-Lincoln	
Republicano	
Donna Berke	
Demócrata	
Por escrito	
	Procurador del distrito
	Término de cuatro años
	Vote por uno
	Voto por uno
Franklin Margo	
Republicano	
Republicano	
Donald Hensley	
Demócrata	
Democrata	
Danasavita	
Por escrito	
	Director de la escuela
	Región 6
	Término de cuatro años
	No vote por más de dos
Gerald Danson	
Republicano/Demócrata	
,	
Shlomo Archibald	
Republicano/Demócrata	
- 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
Por escrito	
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Por escrito	
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Ī	Comisionado	Comisionado	Comisionado	
	Puesto 1	Puesto 2	Puesto 3	ı
	Término de cuatro años	Término de cuatro años	Término de cuatro años	ì
	Vote por uno	Vote por uno	Vote por uno	ì
	Stephen Harrick	Steve West	William Malicki	l
	Republicano	Republicano	Republicano	ı
	George Fisk	Tetty Rogiers	Arnold Wells	ı
	Demócrata	Demócrata	Demócrata	ı
	Por escrito	Por escrito	Por escrito	1
				ı

#### Referendum a nivel estatal Referéndum de bono de mejoramientos de agua y drenaje

¿Está usted a favor de incurrir un endeudamiento por el Estado de \$400,000,000 por subvenciones y prestamos a municipalidades y servicios públicos por el cotos de toda la mano de obra, materiales, maquinaria operacional necesaria y equipo, tierras, propiedad, derechos y servidumbres, planos y especificación, encuestas, calculo de costos e ingresos, estudios de previabilidad, servicios de legales y de ingeniería y todos los gastos necesarios o incidente a la adquisición, construcción, mejora, expansión, extensión, reparación o rehabilitación de todo o parte del sistema de agua potable, agua pluviales, proyectos de recurso sin punto, créditos de nutrientes y proyectos de sistemas de tratamiento de aguas negras?

Sí

No

#### Retención de Tony Grzanich

¿Debe Tony Grzanich ser retenido por un término adicional como magistrado de la corte suprema del Estado de Pennsylvania?

Sí

No

#### Retención de Debbie Marks

¿Debe Debbie Marks ser retenida por un término adicional como magistrada de la corte suprema del Estado de Pennsylvania?

Sí

No

# **Voting Pattern:**

Ballots will be voted and cast with the following pattern. Ballots 10 and 18 will be input using the ADA audio capability. Ballots 5 and 10 in Precinct 1 and Ballot 10 in Precinct 3 will exercise the Pennsylvania Method for straight party.

The following test pattern will be input for the given precinct:

Precinct 1	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
								Str	aight	Party	,									
Republican	Χ		Х		Р	U	U		U		U	U	U	U		U	U	U	U	U
Democratic		Χ		Χ						Р										
Green																				
Libertarian								Χ							Χ					
					Pres	ident	t/Vice	Pre	sider	nt of th	ne Un	ited S	States							
James Collins						Χ			Χ		Χ	Χ					Χ			U
Arthur Remus																				
Calvin Marino							X						Χ	Χ		Х		Χ		
Keith Satterwhite																				
John P. Defazio																				

Louis Denn																		
June Perkins						Х							Х					
David Heroux																		
Write-In					L	<u>.                                    </u>	<u> </u>	L									Χ	
					Ur	nited	State	s Ser	ator									1
Colby Lincoln				Χ						L.,	Χ		<u> </u>	Х			ļ.,	
Oscar Draper					Х				Χ	Χ		Χ	Χ		Х	Х	Χ	
Eric Sheely						Х									ļ			
Write-In						<u> </u>	X		=th	D: 1	<u> </u>							Χ
Dan Dalam			K			ative	in Co	ongre	SS 5"		ict	- V	T 1/		LV		LV	LV
Ben Baker	+	4—	<u> </u>	Х	Х		V		· ·	U	\ \ \	Х	Х		Х		Х	Х
Barbara Barrett							Х		Х		Х					X		
Hicks Write-In	-	-	1			Х								Х			1	
vviile-iri			ı	G	Work		iouto	nant (	201/0	rnor	l		l	^				l .
Joe Carlton	$\overline{}$	$\overline{}$	1	- 6	Jven	X	X	liant v	X	X	1	X	Х		X	X	1	X
Arnold Krill						_ ^	_ ^		^	^		^	^		^	_ ^		^
Charles Jasen		-			Х						Х			Х	1		Х	
Kenneth											^			^				
Interlicchio																		
Robert Marsh	+	$\top$				1	1										1	
Theodore Kopp															1			
Write-In				Х														
<u>'</u>		Re	prese	ntati	ve in	the	Gene	ral As	seml	bly 83	<sup>rd</sup> Dis	trict					•	
Harry Rider			L								Χ	Χ			Х	Х		Х
R. J. Abbott				Χ		Х				Χ							Х	
Derek Carlson							Χ						Χ					
Write-In					Χ				Χ					Χ				
					Judg	e of t	he S	uperio	r Co	urt								
Robert L. Linkey				Χ		Χ			U			Χ			Χ			
Patricia Smallmon					Χ		Χ			Χ	Χ		Χ	Χ		Χ	Χ	
Write-In																		Χ
				Judg	ge of			nonw		Cour	t					,		1
Chris Carpenter						Х	Х		Х			Х	L.,	Х				
Eugene Ruff				Х	Х					Х			Х		X	X		
Write-In				luda	0 06 4	ha C		of Co		n Dies	X						Χ	Χ
Monul Doniel	-	$\neg$			e or t	ne C	ourt	OI CO					1		ΙV	ΤV	ΙV	TV
Mary L. Daniel Jack "Duke"	+			X	Х				X	X	Х	Х			Х	Х	X	X
Brodisky				^	^				^	^		^					^	^
Joanne Schollzert		-	1		Х	Х					Х		Х	Х	Х	Х	1	
Kerry Jones	+	+				X	Х					Х	X	X	<del>  ^</del>	<del>  ^</del>		1
Write-In		_					X	Р					<u> </u>					
Write-In	+++	+					- / (	Ü										
			1	1	Co	untv	Chie	f Exec	utive	<u>'</u>	1		1	1	1	-	1	
Norman Powers				Х	X				<u> </u>	Х		U	Χ		Х			
Micheal	+	+				Х	Х		Х		Χ		1	Х	T	Х	1	
Santarcangelo															1			
Write-in																	Χ	Х
					-	Coun	ity Co	ontrol	ler									
Paul M Bertel-				U			X			Χ	Χ	Х			Χ	U		
Lincoln																		
Donna Berke					Χ				Χ				Х				Χ	Х
Write-In						Χ								Χ				
			1			Dist		ttorne	Эy				1					
Franklin Margo	$\bot$			Χ			Х	ļ		<u> </u>	Χ		Χ		Χ	Х		
Donald Hensley	$\bot$			ļ	Х	<b> </b>		ļ	Χ			Χ		Χ			Χ	
Write-In					<u> </u>	X	<u> </u>	<u> </u>	<u> </u>	X							1	Χ
Wille-III						ool D		or Re	_		1				1	1		1
					Χ		Χ	<u> </u>	X	X	.,	Х	X	Х	U	<u> </u>	X	X
Gerald Danson				X		\ \ ·												X
Gerald Danson Shlomo Archibald				X	X	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Х	Х	X		Х	U	U			^
Gerald Danson Shlomo Archibald Write-In			P	X	X	X	Х		Х	X	X	Х	X	U	U	Х	^	^
Gerald Danson Shlomo Archibald			P P	X	X	Х				X		Х	X	U	U	X	^	
Gerald Danson Shlomo Archibald Write-In Write-In				X	Co	X	issio	ner Se	eat 1		Х	Х			U	U	^	
Gerald Danson Shlomo Archibald Write-In Write-In Stephen Harrick				X	X	Х				X			X	X			^	X
Gerald Danson Shlomo Archibald Write-In Write-In				X	Co	X	issio	ner Se	eat 1		Х	X			X	U	X	

							Sta	tewi	de Re	eferen	dum									
Yes			Х	U	Х							Χ		Χ	Χ	Χ	U			
No	Χ	Χ				Χ	Χ	Χ	Χ	Χ	Χ		Χ					Χ	Χ	Χ
							Reter	ntion	of To	ny G	rzanio	ch								
Yes	Χ	Χ			Χ	Χ		Χ		Χ	Χ	Χ	Χ		Χ			U	Χ	
No			Χ	Χ			Χ		Χ					Χ		Χ	Χ			Χ
							Rete	ntion		ebbie										
Yes		Х		Х	Χ	Х			Х	Χ	Χ	Х	Х			Х	U	U		Х
No	Χ		Χ				Х	Х						Χ	Χ				X	
Precinct 2a	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
5			1 1/					Str		Party										
Republican	Х	Х	Х	.,	U	U	U		U	Р	U	U	U	U		U	U	U	U	U
Democratic				Х																
Green																				
Libertarian					D	-1	M:	X	-:	t of th		:4 - d C			Χ					
James Collins		1	1			_		Pre	siaer	it of ti	_	_	tates			V	V	Ιv	V	1
Arthur Remus					Х	Х	Х				Х	Х				Х	X	X	X	
Calvin Marino		-	1						Х				Х	Х			-		<b>-</b>	
Keith Satterwhite									^					^						
John P. Defazio		-	1	<b> </b>													-		<b>-</b>	
Louis Denn																				
June Perkins								Х							Х					
David Heroux								^`							^`					
Write-In																				Х
		l					Ur	ited	State	s Ser	ator		l .			l		1	1	
Colby Lincoln					Х		Х				Х	Χ		Х			Χ	Х		Х
Oscar Draper						Χ			Х				Х						Х	
Eric Sheely								Χ							Χ					
Write-In																Χ				
					R	epre	senta	ative	in Co	ngre	ss 5 <sup>th</sup>	Distri	ict					1		
Ben Baker					Χ	Χ	Χ		Χ		Χ			Χ	U	Χ	Χ	Χ		
Barbara Barrett								Χ				Χ							Χ	Χ
Hicks																				
Write-In													Χ							
						G				nant (	Gover	nor								
Joe Carlton					Х		Х	Х	Х			Χ			U	Х	Χ		Χ	Х
Arnold Krill		<u> </u>				.,							,,					L.,	<u> </u>	<u> </u>
Charles Jasen						Х					Х		Х					Х		
Kenneth																				
Interlicchio			-														1		1	
Robert Marsh Theodore Kopp																				
Write-In		-					-	-						Х	-		1	1	-	
v v 111€-111		l	1	Ren	rese	ntati	ve in	the f	Gene	ral As	semi	ılv 82	d Die	rict	1	l	1	1	l	1
Harry Rider		1	1	ıvel	X	X	V C 1111	ine (	X	iai AS	SCIIIK	ny os	פוע	X		Х	Х			Х
R. J. Abbott						^	Х		^		Х	Х	Х	^		^		Х	Х	
Derek Carlson			<u> </u>				<u> </u>	Х					<u> </u>		Х			<del>  ^ </del>	<u> </u>	<u> </u>
Write-In								<del>  ^</del>							<u> </u>		1	1		
		·		<b></b>	1		Juda	e of t	he Si	uperio	r Coi	ırt	<u> </u>	<u> </u>	<u> </u>	<u> </u>	I			
Robert L .Linkey		1	1			U	X	- <del></del>	X		. 550	X	Х	Х				Х	Х	Х
Patricia Smallmon			1		Х	Ť	Ė		Ė		Χ		<del>'`</del>	<del>-                                    </del>	Х	Х	Х	<u> </u>	<u> </u>	† <u>*                                   </u>
Write-In					<u> </u>			Х										1		
	1					Jude	ge of		Comr	nonw	ealth	Court								
Chris Carpenter					Х	X	X		Х		Х	Х		Х		Χ		U	Χ	
Eugene Ruff							Ė	Х					Х				Х	<u> </u>		Х
Write-In			1												Χ					1
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					Χ	X	Х	Х			Χ			Χ	Х	Χ		Х	Χ	
Mary L. Daniel							1	1					Х		Х	Χ	1	1	1	1
Mary L. Daniel Jack "Duke"					Χ	Χ			Χ		U		_ ^		_ ^	_ ^				
Jack "Duke" Brodisky					Х	Х			Х		U		^		^	^				
Jack "Duke"					X	X 	Х		X	P P	U		X		^	^	X		X	X

	1															1	1			
Write-In												Х		Х						
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Name of Bridge	1	1	1		- V					Exec	utive		- V		1	T	Lv	LV	LV	- V
Norman Powers Micheal					Х	Х	Х	Х	Х		Х	U	Х		Х	Х	Х	Х	Х	Х
Santarcangelo						^					^				^	^				
Write-in														Х						
VVIILG-III		l	l				Ь.,	Cour	nty Co	ontrol	ler							1		
Paul M Bertel-	1				Х	Х	1	X	<del>,</del> 00	J O.	X			Х	U	Х	1	Х		U
Lincoln								l ^`								\ \ \		^		ľ
Donna Berke							Х		Х			Χ	Х				Х		Х	
Write-In																				
								Dist	rict A	ttorne	ey .									
Franklin Margo						Χ	Х				Х			Χ		Χ				
Donald Hensley					Χ			Х	Χ			Χ	Χ				Х	Χ	Χ	Χ
Write-In															Χ					
							Sch	ool D	Direct	or Re	gion	6								
Gerald Danson					Χ	Χ	Χ	Χ	Χ		Χ	Χ	U		Χ	Χ	Χ		Χ	Χ
Shlomo Archibald					Χ	Χ	Х	Χ			Χ	Χ	U		Χ	U		Χ	Х	Χ
Write-In									Х					Χ			Χ	Χ		
Write-In									<u></u>	L				Χ						
	1						_	omm		ner Se				1		1	1		1	1
Steve West	1	<u> </u>	<u> </u>		U	L	Х	ļ , .	Х		Х	Χ			Х	\	Х	Х	L.,	
Tetty Rogiers	1	<u> </u>	<u> </u>	<b> </b>		U	<u> </u>	Х	1				Х	\ \ \	1	Χ	1		Х	Х
Write-in							01							Χ						
V	1	1	1			- V		atewi	de Re	eferer		· ·	1		1	T	Lv		LV	L ./
Yes					U	Χ	Х	V	V	V	U	Х	V	V	V	V	Х	V	Х	Х
No	Χ	Χ	Χ	Χ		L .	Data	X	X	X			Χ	Χ	Χ	Χ		Χ		<u> </u>
Voc	TV			Х					X	ony G	U	JN .	Х	l v	Χ	Х	1	U	Х	l v
Yes No	Х	Х	Х	^	Х	Х	Х	Х	^	^	U	Х	^	Х	^	^	X	U	^	Х
INU					^		Poto	ntion	of D	ebbie	Mark									<u> </u>
Yes	Х	Х	U	Х		Х	X	X	10.0	X	X	X	Х		Х	Х	Х	Х	Х	
No	<del>  ^</del>		_		Х				Х					Х			^			Х
Precinct 2b	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Daniel Par	1	T V	1	1						Party					1		1	1	1	
Republican	V	Χ	V	V	U	U	U	U	U	Р	U		<u> </u>	U	<u> </u>	U	-	U	U	U
Democratic Cross	Х	1	Χ	Χ			1	1	1	۲_			-		Х	1		1		
Green	1	-	-	-			<del>                                     </del>	-	<del>                                     </del>			Х	Х		^	<u> </u>	X		1	
Libertarian	1	<u> </u>	<u> </u>	<u> </u>	Proc	iden	t/Vice	Pro	sidar	t of tl	ha Hr	itad C		<u> </u>	<u> </u>	1		1	<u> </u>	
James Collins		1	1	1		X	VVICE	X	X	וו טו נו	X	iteu S	iales	X			X		Х	Х
Arthur Remus					^	^		^	^		_ ^			^			^		^	^
Calvin Marino	1	1	1	1			Х	1					<b>-</b>		<del>                                     </del>	Х	1	Х		
Keith Satterwhite							^									^		^		
John P. Defazio	1	1	1	1			<u> </u>	1				Х			Х	1	1	<b>†</b>		
Louis Denn												• •			``					
June Perkins													Х							
David Heroux		L	L	L	<u> </u>		L	L					L	<u> </u>					<u> </u>	L
Write-In																				
							Ur	nited	State	s Ser	ator									
Colby Lincoln					Χ	Χ		Χ	Х		Χ	Χ		Χ		U	Χ		Χ	Х
Oscar Draper							Χ											Χ		
Eric Sheely													Χ							
Write-In															Χ					
	_							ative		ongre	ss 5 <sup>th</sup>	Distr			_					
Ben Baker					Χ	Χ	Х		Χ				U		Χ		Χ		Χ	
D D 11	1	1	1	1	1	1	1	1 1/	1	1	1 1/	•	1	1 1/	1	1 1/	1	1 1/	1	1 1/

Governor/Lieutenant Governor

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Barbara Barrett

Hicks Write-In

Joe Carlton Arnold Krill Χ

Х Х

-· · ·									Т	1		1					1	ı		
Charles Jasen						Х		Х			Х					Χ				
Kenneth																				
Interlicchio																				
Robert Marsh	+											Χ			Χ		Χ			
												^			^		^			
Theodore Kopp	$\perp$																			
Write-In													Х							
				Ren	rese	ntati	ve in	the (	Gene	ral As	semb	lv 84	d Dist	rict						
Peter Valle	T 1				Х	Х		Χ	Х		Χ				Χ	Χ	Χ		Χ	
	+					^	\ <u>'</u>	^	^		^				^		^	\ <u>\</u>	^	\ <u>\</u>
Neil Carey	$\perp$						Χ					Χ	Χ					Χ		Χ
Write-In														Χ						
						,	Judge	e of t	he Sı	uperio	r Cou	ırt								
Robert L. Linkey					Х		X	Χ			Χ	Χ	Χ		Χ	Χ	Χ	Χ		
Patricia Smallmon	+				/\	Х	<u> </u>	<u> </u>	Х		, ·		, ·	Χ				<u> </u>		Χ
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Write-In																			Χ	
						Judg	ge of	the (	Comr	nonw	ealth	Court								
Chris Carpenter						Χ		Χ	Χ		Χ		Χ			Χ	Χ	U		Χ
Eugene Ruff	+						Х					Χ		Χ				_	Х	
	+						^					^		^					^	
Write-In					Χ										Χ					
						Judg	e of t	he C	ourt (	of Co	nmor	n Plea	S							
Mary L. Daniel					Χ	Χ	Χ	Χ			Χ			U		Χ	Χ	Χ		
Jack "Duke"	1				X	X	<u> </u>		Х			Χ		Ü		X	X		i -	
		l			^`	^			\ \					J		^			1	
Brodisky	$+\!-\!\!\!-\!\!\!\!-$				<u> </u>				.,									.,	.,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Joanne Schollzert							Χ		Х									Χ	Χ	Χ
Kerry Jones								Χ							Χ				Χ	Χ
Write-In											Χ	Χ	Χ		U					
Write-In	+-										^	^	X							
vvrite-in													Λ							
							Co	unty (	Chief	Exec	utive									
Norman Powers					Х	Х		Х	Χ			Χ			Χ	Χ	J		Χ	Χ
Micheal	1						Х				Χ		Χ	Χ						
											^		^	^						
Santarcangelo	+																			
Write-in																		Χ		
							(	Coun	ty Co	ntrol	er									
Paul M Bertel-					U		Χ	Χ	X			Χ	Χ		Χ	Х		Х	Х	Χ
Lincoln					_		, ,	, ,	, ,			, ,	,,		,,	,,		, ,	, ,	, ,
	+					\ <u>'</u>											\ <u>'</u>			
Donna Berke						Χ					Χ			Χ			Χ			
Write-In																				
								Distr	rict A	ttorne	v									
Franklin Margo											X			Χ			Χ			
	+				· ·	· ·	· ·	V	V		^	V	· ·	^	· ·	V	^	V	V	V
Donald Hensley					Χ	Χ	Χ	Χ	Χ			Χ	Χ		Χ	Χ		Χ	Χ	Χ
Write-In																				
							Sch	ool D	irect	or Re	gion (	6								
Gerald Danson	$\top$				Χ	Χ	Χ	Χ			Х	Χ	U	Χ	Χ	Χ		Χ	Χ	Х
	+-				X	X	^		~			X	Ü	X	X	X	V	X	X	
Shlomo Archibald	+				^	^		Χ	X		Χ	^	U	^	^	^	X	^	^	Х
Write-In							Χ		Χ								U			
Write-In																				
							Co	mmi	issioi	ner Se	at 2									
i						V						V			Χ	Х	V	V	Х	
Steve Most	T 1				· ·								Y			^	Х	X	^	<u> </u>
Steve West					Х	Х	.,	Х	Χ		Χ	Х	Χ		^					
Tetty Rogiers					Х	^	Х	^	^		Х	Χ	Х		^					Χ
					X	Α	Х		^		Х		X	X	^					X
Tetty Rogiers					X	Χ				eferen		^	Х	X	^					X
Tetty Rogiers Write-in						^	Sta		de Re	eferen	dum			ı						X
Tetty Rogiers Write-in Yes	X	X			X			itewi				X	X	X				,,		
Tetty Rogiers Write-in	X	X	X	X		X	Sta X	atewie X	de Re	Х	dum X	X		ı	X	X	X	X	X	X
Tetty Rogiers Write-in Yes	X	X	X	X		X	Sta X	atewie X	de Re	Х	dum X	X		ı				X	X	
Tetty Rogiers Write-in Yes No			X		X	X	Sta X	atewic X	de Re	X ony G	dum X	X	X	ı	X	X	X	X		Х
Tetty Rogiers Write-in Yes No Yes	X	X		X		X	Sta X Reter	atewie X	de Re	Х	dum X	X		X					X	
Tetty Rogiers Write-in Yes No			X		X	X	Sta X Reter	x x ntion	de Re	X ony G	dum X rzanio	X ch U	X	ı	X	X	X	X		Х
Tetty Rogiers Write-in  Yes No  Yes No		X	X	X	X	X	Sta X Reter	x x ntion	de Re	X ony G X ebbie	dum X rzanio X Mark	X ch U	X	X	X	X	X		X	X
Tetty Rogiers Write-in Yes No Yes		X	X	X	X	X	Sta X Reter	x x ntion	de Re	X ony G X ebbie	dum X rzanio X Mark	X ch U	X	X	X	X	X			Х
Tetty Rogiers Write-in  Yes No  Yes No  Yes Yes	X				X	X	Sta X Reter X Rete	X ntion X	de Re	X ony G	dum X rzanio	X ch U	X	X	X	X	X	X	X	X
Tetty Rogiers Write-in  Yes No  Yes No		X	X	X	X	X	Sta X Reter	x x ntion	de Re	X ony G X ebbie	dum X rzanio X Mark	X ch U	X	X	X	X	X		X	X
Tetty Rogiers Write-in  Yes No  Yes No  Yes Yes	X	X	X	X	X	X	Sta X Reter X Rete	X ntion X	de Re	X ony G X ebbie	dum X rzanio X Mark	X ch U	X	X	X	X	X	X	X	X
Tetty Rogiers Write-in  Yes No  Yes No  Yes No	X	X	X	X	X	X	Sta X Reter X Rete	x ntion X ntion	of To	X ony G X ebbie	dum X rzanio X Mark X	X U KS X	X X	X	X	X	X	X	X	X
Tetty Rogiers Write-in  Yes No  Yes No  Yes Yes	X	X	X	X	XXXX	X	Sta X Reter X Rete	x ntion X ntion	of To	X ony G X ebbie X	dum X rzanio X Mark X	X U SS 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	X	X	X	X	X	X	Sta X Reter X Rete	x ntion X ntion	of To	X ony G X ebbie	dum X rzanio X Mark X	X U KS X	X X	X	X	X	X	X	X	X
Tetty Rogiers Write-in  Yes No  Yes No  Yes No	X	X	X	X	XXXX	X	Sta X Reter X Rete	X ntion X ntion X	of To	X pny G X ebbie X	dum X rzanio X Mark X	X U SS 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 X B 1	X X B 2	X X B 3	X X B 4	X X X X B 5	X X X Y X Y X Y X Y X Y X Y X Y X Y X Y	Sta X Reter X Rete	x ntion X ntion X	of To	X ony G X ebbie X	dum X rzanid X Mark X	X ch U as X	X X X B 13	X X X	X X X	X	X X X B 17	X X X B 18	X	X X X X B 20
Tetty Rogiers Write-in  Yes No  Yes No  Yes No  Precinct 3	X	X	X	X	XXXX	X	Sta X Reter X Rete	X ntion X ntion X	of To	ebbie X Party	dum X rzanio X Mark X	X U SS 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  Republican Democratic	X X X B 1	X X B 2	X X B 3	X X B 4	X X X X B 5	X X X Y X Y X Y X Y X Y X Y X Y X Y X Y	Sta X Reter X Rete	x ntion X ntion X	of To	X pny G X ebbie X	dum X rzanid X Mark X	X ch U as X	X X X B 13	X X X B 14	X X X	X X X B 16	X X X B 17	X X X B 18	X	X X X X B 20
Tetty Rogiers Write-in  Yes No  Yes No  Yes No  Precinct 3  Republican Democratic	X X X B 1	X X B 2	X X B 3	X X B 4	X X X X B 5	X X X Y X Y X Y X Y X Y X Y X Y X Y X Y	Sta X Reter X Rete	x ntion X ntion X	of To	ebbie X Party	dum X rzanid X Mark X	X ch U as X	X X X B 13	X X X	X X X	X	X X X B 17	X X X B 18	X	X X X X B 20
Tetty Rogiers Write-in  Yes No  Yes No  Yes No  Precinct 3	X X X B 1	X X B 2	X X B 3	X X B 4	X X X X B 5	X X X Y X Y X Y X Y X Y X Y X Y X Y X Y	Sta X Reter X Rete	x ntion X ntion X	of To	ebbie X Party	dum X rzanid X Mark X	X ch U as X	X X X B 13	X X X B 14	X X X	X X X B 16	X X X B 17	X X X B 18	X	X X X X B 20

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James Collins	1 1		X	luen	V V ICE	X	X	וו טו נו	ie Ul	X	X	<u> </u>	Х		X	X		Х
Arthur Remus			^			^	^			^	^		^		^	_ ^		^
Calvin Marino				Х					Х									
Keith Satterwhite				^					^									
John P. Defazio												Х		Х				
Louis Denn												^		^				
June Perkins					Х												Х	
David Heroux																	^	
Write-In																		
WIIIO III	1 1	l l		<u> </u>	Ur	ited	State	es Ser	ator						1	1		ı
Colby Lincoln				Х		X			X		Х	Х	Х	Χ		Х		Χ
Oscar Draper			Х				Х			Х		^			Х			
Eric Sheely			+^-		Х											1	Х	
Write-In															1	1		
WIIIC III		I	P	onros	conta	tivo i	in Co	ngres	e 10 <sup>t</sup>	n Diet	rict				1	1		
Lois Koss			X	Г	X	X	X	ligies	X	Dist	X	Х		Х	1	U	X	Х
William Sullivan	+++		+^	Х	^	^	^		^	Х	^	^		^	Х	1	^	^
Write-In	++		+	<del>  ^</del>	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>		<del>                                     </del>		<del>                                     </del>		Х			+-	1	
4 A 1111 C-111					OVerr	nor/I	ieuto	nant (	Gove	nor	<u> </u>	1	_ ^	<u> </u>	1	1	1	<u> </u>
Joe Carlton	1 1		Х	ΙX	2 4 611	X	.cute	. idift (	X	1.01			Х		Х	1	Х	
Arnold Krill			^	^		^			^				^		^		^	
Charles Jasen	++	-	+-	1	Х	<del>                                     </del>	<del>                                     </del>		<del>                                     </del>	Х	<del>                                     </del>	<b>-</b>	<b>-</b>	<del>                                     </del>	<u> </u>	Х	1	Х
Kenneth					^					^						^		^
Interlicchio																		
Robert Marsh												Х		Х				
Theodore Kopp																		
Write-In							Х				Х							
		Re	prese	ntati	ve in	the (		ral As	seml	olv 84		trict						1
Peter Valle			X		Х	Х	Χ		Х		Х		Х		U	Х		
Neil Carey				Х						Х		Χ		Χ			Х	
Write-In																	1	Х
			1		Juda	e of t	he Si	uperio	or Co	ırt								
Robert L. Linkey			Х	X		Х			Х	Х		Х		Χ	Х	Х		Χ
Patricia Smallmon			<del>                                     </del>		Х		Х						Х		1		Х	
Write-In											Х						<u> </u>	
				Jude	ge of	the (	Comr	nonw	ealth	Cour		1			1		1	
Chris Carpenter			Х	T	<u> </u>	X	<u> </u>		X		Х		Χ	Χ		Х	Χ	Χ
Eugene Ruff			1	Х	Х	,	Х		,,			Х	,,		Х	1	, ·	
Write-In										Х					1			
Willo III	1 1	l l		Juda	e of t	he C	ourt	of Co	mmo		ıs				1	1		ı
Mary L. Daniel			X	J <u>g</u>			T	1					U	Χ	Х		Х	Χ
Jack "Duke"			X	Х	Х	Х					Х	Х	Ü	X	X		X	X
Brodisky			^`	^`	, ·	, ·									1		^`	
Joanne Schollzert				Х	Х		Х		Х	Х		U				Х		
Kerry Jones						Х	X		X							X		
Write-In	+					Ť	Ť	Р	<del></del>	Х	Х					+		
Write-In			+	1	<b>†</b>	<b>†</b>	<b>†</b>	Ü	<b>†</b>					1		1	1	
	1 1			1	Co	untv	Chie	f Exec	utive			ı	l	1	1	1	1	1
Norman Powers				Х		X	X		X		Х		Х	Χ		Х		Χ
Micheal			Х	<del>'``</del>	Х	Ť	Ť	1		Х		Х	<u> </u>		Х		Х	<u> </u>
Santarcangelo			``		``					•		•			``		1	
Write-in			+	1	<b>†</b>	<b>†</b>	<b>†</b>	1	<b>†</b>		<b>†</b>			1		1	1	
				1		Coun	ty Co	ontrol	ler	ı		ı	l	1	1	1	1	1
									X				Х	Х	Х		Х	Х
Paul M Bertel-			U		U	Х	l X		_ ^								4	l -
Paul M Bertel- Lincoln			U		U	X	Х		^									
Lincoln			U	Х	U	X	X		^	Х		X	^			X		
			U	Х	U	X	X		^	Х	X	Х	^			X		
Lincoln Donna Berke			U	Х	U			ttorne		Х	X	Х	^	^	^	X		
Lincoln Donna Berke Write-In			U	X	U			ttorne		X	X	X			X	X	X	X
Donna Berke Write-In Franklin Margo						Dist	rict A	ttorne	∋y		X						X	X
Donna Berke Write-In  Franklin Margo Donald Hensley			X	X				ttorne	∋y	X			X	X		X	X	X
Donna Berke Write-In Franklin Margo					X	Dist	rict A		ey X	X	X						X	X
Donna Berke Write-In  Franklin Margo Donald Hensley Write-In			X	X	X	Distr X	rict A	ttorne or Re	ey X gion	X	X	U	X	X	X	X		
Donna Berke Write-In  Franklin Margo Donald Hensley Write-In  Gerald Danson			X	X	X	Distr	rict A		ey X gion X	X 6	X	U	X	X		X	X	X
Lincoln Donna Berke Write-In  Franklin Margo Donald Hensley Write-In  Gerald Danson Shlomo Archibald			X	X	X	Distr X	rict A		ey X gion	6 X	X	U	X	X	X	X		
Donna Berke Write-In  Franklin Margo Donald Hensley Write-In  Gerald Danson			X	X	X	Distr	rict A		ey X gion X	X 6	X	U	X	X	X	X	X	X

							Co	ommi	issio	ner Se	eat 3									
William Malicki						Х	Х	Х				Χ	Х		Х		Х	U	Х	
Arnold Wells					Х				Х					Χ		Х				Χ
Write-in											Χ									
							Sta	itewi	de R	eferer	dum									
Yes	Х				Χ			Χ		U		Χ			Χ				U	Χ
No		Χ	Х	Х		Х	Х		Х		Х		Х	Χ		Х	Х	Χ		
							Reter	ntion	of To	ony G	rzani	ch								
Yes	Х	Х	Х		Х	Χ		Х		Χ	Х	Χ		Χ	Х		Х		Х	Χ
No				Х			Х		Х				Х			Х		Χ		
							Rete	ntion	of D	ebbie	Mark	(S								
Yes		Χ		Χ		Χ		Χ		Χ	Χ	Χ	Χ						Χ	Χ
No	Х		Х		Х		Х		Х					Χ	Χ	Х	Х	Х		

## **Test Results:**

#### Precinct 1: Straight Party

Republican 3
Democratic 3
Green 0
Libertarian 2
Undervote 12

#### President/Vice President of the 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 District 5

Ben Baker10Barbara Barrett-Hicks7Write-In2Undervote1

# **Governor/Lieutenant Governor**Joe Carlton

 Arnold Krill
 12

 Charles Jasen
 7

 Kenneth Interlicchio
 7

 Robert Marsh
 7

 Theodore Kopp
 0

 Write-In
 1

 Undervote
 0

# Representative in the General Assembly District 83

 Harry Rider
 8

 R.J. Abbott
 7

 Derek Carlson
 2

 Write-In
 3

 Undervote
 0

Judge of Superior Court	
Robert L. Linkey	7
Patricia Smallmon	11
Write-In	1
Undervote	1
Olidei vote	1
Judge of the Commonwealth	h Court
Chris Carpenter	8
Eugene Ruff	9
Write-In	3
Undervote	0
Chacryote	· ·
Judge of the Court of Comn	oon Pleas
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
Chack vote	V
Statewide Referendum	
Yes	6
No	12
Undervote	2
Retention of Tony Grzanich	
Yes	11
No	8
Undervote	1
Retention of Debbie Marks	
Yes	11
No	7
Undervote	2
Precinct 2a:	
Straight Party	
Republican	4
Democratic	Í

Green	0
Libertarian	2
Undervote	13
President/Vice President of th	a United States
James Collins	e United States
Arthur Remus	13
Calvin Marino	13
Keith Satterwhite	4
John P. Defazio	+
Louis Denn	0
June Perkins	
David Heroux	2
Write-In	1
Undervote	Ö
United States Senator	
Colby Lincoln	12
Oscar Draper	5
Eric Sheely	2
Write-In	1
Undervote	0
Representative in Congress Di	istrict 5
Ben Baker	13
Barbara Barrett-Hicks	5
Write-In	1
Undervote	1
Governor/Lieutenant Governo	DF .
Joe Carlton	10
Arnold Krill	13
Charles Jasen	
Kenneth Interlicchio	5
Robert Marsh	
Theodore Kopp Write-In	0
Undervote	1 1
Undervote	1
Representative in the General	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
Today et al. Communication	C4
Judge of the Commonwealth C	
Chris Carpenter Eugene Ruff	13 5
Write-In	1
Undervote	1
Clidervote	
Judge of the Court of Commo	n Pleas
Mary L. Daniel	13
Jack "Duke" Brodisky	9
Joanne Scholzert	7
Kerry jones	6
Write-In	4
Undervote	1
<b>County Chief Executive</b>	
Norman Powers	13
Micheal Santarcangelo	5
Write-In	1

Undervote	1
County Controller	
Paul M. Bertel-Lincoln	11
Donna Berke	7
Write-In	
	0
Undervote	2
District Attorney	
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 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 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 James Collins	ne United States
Arthur Remus	10
Calvin Marino	
Keith Satterwhite	7
John P. Defazio	
Louis Denn	2
June Perkins	
David Heroux	1
Write-In	0
Undervote	0
Tinita I Canan Constant	
United States Senator	
Colby Lincoln	11
Oscar Draper	6
Eric Sheely	1
Write-In	1
Undervote	1

Representative in Congress D	
Ben Baker	8
Barbara Barrett-Hicks	10
Write-In	1
Undervote	1
Governor/Lieutenant Govern	or
Joe Carlton	•
Arnold Krill	8
Charles Jasen	
Kenneth Interlicchio	8
Robert Marsh	· ·
Theodore Kopp	3
Write-In	1
Undervote	0
Representative in the General	
Peter Valle	10
Neil Carey	9
Write-In	
Undervote	0
Judge of Superior Court	
Robert L. Linkey	11
Patricia Smallmon	8
Write-In	0 1
Undervote	0
Under vote	V
Judge of the Commonwealth	Court
Chris Carpenter	9
Eugene Ruff	8
Write-In	2
Undervote	1
Judge of the Court of Commo	on Pleas
Mary L. Daniel	9
Jack "Duke" Brodisky	7
Joanne Scholzert	9
Kerry jones	8
Write-In	4
Undervote	3
County Chief Executive	10
Norman Powers	10
Micheal Santarcangelo	8
Write-In	1
Undervote	1
<b>County Controller</b>	
Paul M. Bertel-Lincoln	11
Donna Berke	8
Write-In	0
Undervote	1
District Attorney	
Franklin Margo	4
Donald Hensley	16
Write-In	
Undervote	0
School Director Region 6	
Gerald Danson	17
Shlomo Archibald	18
Write-In	2
Undervote	3
Chaoi rote	
Commissioner Seat 2	
Steve West	13
Tetty Rogiers	6
Write-In	Í
**************************************	1

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

Write-In	1
	0
Undervote	0
Judge of the Commonwealth	Court
Judge of the Commonwealth	
Chris Carpenter	13
Eugene Ruff	6
Write-In	1
Undervote	0
Judge of the Court of Commo	on Pleas
Mary L. Daniel	9
I I (D I "D I')	
Jack "Duke" Brodisky	14
Joanne Scholzert	6
	4
Kerry jones	
Write-In	3
Undervote	4
Cildervote	<del>*</del>
County Chief Executive	
Norman Powers	13
Micheal Santarcangelo	7
Write-In	0
Undervote	0
County Controllo-	
County Controller	
Paul M. Bertel-Lincoln	12
Donna Berke	5
Write-In	1
Undervote	2
Chacivote	2
District Attorney	
	9
Franklin Margo	
Donald Hensley	9
Write-In	1
Undervote	1
C.L. ID' ( D (	
School Director Region 6	
Gerald Danson	17
Shlomo Archibald	18
Write-In	2
Undervote	3
Chacivote	3
Commissioner Seat 3	
William Malicki	12
Arnold Wells	6
Write-In	1
Undervote	1
CA-AII- D. C	
Statewide Referendum	
Yes	6
No	12
Undervote	2
Retention of Tony Grzanich	
Yes	14
No	6
Undervote	0
Retention of Debbie Marks	
	10
Yes	10
No	10
Undervote	0
<b>Cumulative Totals:</b>	
Cummanve Totals:	
Straight Party	
Su aight Party	
Republican	12
Democratic	9
Green	5
Libertarian	7
	•

Undervote	47
President/Vice President of the James Collins	e United States
Arthur Remus	44
Calvin Marino	TT CONTROL OF THE CON
Keith Satterwhite	22
John P. Defazio	22
Louis Denn	4
June Perkins	4
David Heroux	7
Write-In	2
Undervote	1
Olidervote	
United States Senator	
Colby Lincoln	42
Oscar Draper	27
Eric Sheely	6
Write-In	4
Undervote	1
Representative in Congress Di	
Ben Baker	31
Barbara Barrett-Hicks	22
Write-In	4
Undervote	3
Representative in Congress Di	strict 10
Lois Koss	14
William Sullivan	4
Write-In	
Undervote	1
Governor/Lieutenant Governo	or
Joe Carlton	
Arnold Krill	44
Charles Jasen	
Kenneth Interlicchio	25
Robert Marsh	25
Theodore Kopp	5
Write-In	5
Undervote	1
Representative in the General	
Harry Rider	19
R.J. Abbott	14
Derek Carlson	4
Write-In	3
Undervote	0
Donnocontative in the Co	Accombly Dictrict 94
Representative in the General Peter Valle	Assembly District 84 22
Neil Carey	15
Write-In	2
Undervote	1
Judge of Superior Court	
Robert L. Linkey	44
Patricia Smallmon	30
Write-In	4
Undervote	
Judge of the Commonwealth (	
Chris Carpenter	43
Eugene Ruff	28
Write-In	7
Undervote	2
Index of the Control of Control	Dl
Judge of the Court of Common Mary L.Daniel	n Pleas 42
Jack "Duke" Brodisky	42 40
Jack Duke Diouisky	₹0

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         County Controller         Paul M. Bertel-Lincoln       42         Donna Berke       28         Write-In       3         Undervote       7	
Write-In       13         Undervote       9         County Chief Executive         Norman Powers       44         Micheal Santarcangelo       29         Write-In       4         Undervote       3         County Controller         Paul M. Bertel-Lincoln       42         Donna Berke       28         Write-In       3	
Undervote 9  County Chief Executive Norman Powers 44 Micheal Santarcangelo 29 Write-In 4 Undervote 3  County Controller Paul M. Bertel-Lincoln 42 Donna Berke 28 Write-In 3	
County Chief Executive Norman Powers 44 Micheal Santarcangelo 29 Write-In 4 Undervote 3  County Controller Paul M. Bertel-Lincoln 42 Donna Berke 28 Write-In 3	
Norman Powers       44         Micheal Santarcangelo       29         Write-In       4         Undervote       3         County Controller         Paul M. Bertel-Lincoln       42         Donna Berke       28         Write-In       3	
Norman Powers       44         Micheal Santarcangelo       29         Write-In       4         Undervote       3         County Controller         Paul M. Bertel-Lincoln       42         Donna Berke       28         Write-In       3	
Micheal Santarcangelo       29         Write-In       4         Undervote       3         County Controller         Paul M. Bertel-Lincoln       42         Donna Berke       28         Write-In       3	
Write-In 4 Undervote 3  County Controller Paul M. Bertel-Lincoln 42 Donna Berke 28 Write-In 3	
Undervote 3  County Controller Paul M. Bertel-Lincoln 42 Donna Berke 28 Write-In 3	
County Controller Paul M. Bertel-Lincoln 42 Donna Berke 28 Write-In 3	
Paul M. Bertel-Lincoln 42 Donna Berke 28 Write-In 3	
Paul M. Bertel-Lincoln 42 Donna Berke 28 Write-In 3	
Donna Berke 28 Write-In 3	
Write-In 3	
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 6	
Write-In 1	
Undervote 0	
ondervoic 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	
Statewide Referendum	
Yes 27	
No 47	
Undervote 6	
Onder total	
Retention of Tony Grzanich	
Yes 54	
No 22	
Undervote 4	
Retention of Debbie Marks	
Yes 49	
No 27	
Undervote 4	

### APPENDIX B - TEST CASES

### **Test Case Identifier:** 01 – 25 P.S. § 3031.7(1) Voter Secrecy (ADA Voter) (1) Provides for voting in absolute secrecy and prevents any person from PA ST 25 P.S. § 3031.7 seeing or knowing for whom any voter, except one who has received or is **Requirement:** receiving assistance as prescribed by law, has voted or is voting. Test Objective: To determine if a voters Test Configuration: Precinct tabulation device configured as selections input using an ADA device can be described for normal election day operation by Pennsylvania procedures and or the device manufacturer for an ADA voter. A observed during the act of voting, or once a marker is placed 12 feet (measured from the lowest point of the vote has been cast. 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. The ADA voter will be positioned in the center of the tabulation device with a site line of 4 feet. See Step 1001. **Test Equipment:** Standard 15+ foot tape measure Two roles are required for this test case. An ADA Voter role and an **Special Procedural Requirements:** observer role. The ADA voter will be positioned with a line of site at 48 inches. The observation must be made by an individual between the heights 68 inches and 71 inches. **Assumptions:** An election is loaded on the device and the polls are open, ready for voting. Step **Description** 1000 Layout Diagram: Top View DRE Verify all measurements. Expected: Center measurement is 12 feet and the side distance observation points are approximately 17 feet. Actual: Measured 12 feet. 1001 ADA Voter Position: Side View DRE Voter line of sight

	Verify all measurements.
	Expected: 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.
	Expected: The Observer cannot determine the Voter's input selections.
	Actual: Observer reported observations could be made from observation point 2 and 3.
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.
	Expected: The Observer cannot determine the Voter's input selections.
	Actual: Observer reported observations could be made from observation point 2 and 3.
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.

*Expected:* The Observer cannot determine the Voter's input selections.

Actual: Observer reported observations could be made from observation point 2 and 3.

#### 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.

Expected: The Observer cannot determine the Voter's input selections.

Actual: Observer reported observations could be made from observation point 2 and 3.

**Criteria for Evaluation of the Test Results:** The observer must not be able to determine the voter's selection from any observation position or any voter selection surface position.

Test Case Id	entifier: 01 – 25 P.S. § 303	1.7(1) Voter Secrecy (Regular Voter)
PA ST 25 P.S. § 3031.7  Requirement: (1) Properties the seeing		(1) 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.
Test Objective: To determine if a voters selections can be observed during the act of voting, or once a vote has been cast.		
Test Equipm	nent:	Standard 15+ foot tape measure
	edural Requirements:	Two roles are required for this test case. A Voter role and an observer role. The observation must be made by an individual between the heights of 5 feet 8 inches and 5 feet 11 inches.
Assumptions	s:	An election is loaded on the device and the polls are open, ready for voting.
Step 1000		Description
	Layout Diagram:  Top View  DRE  12'  Verify all measurements.  Expected: Center measurement is 12 feet and the side distance observation points are approximately 17 feet.  Actual: Measured 12 feet.	
1010	Observer Role - Activate a ballot for regular voting.  Expected: Ballot is presented and vote selections can be input.  Actual: The ballot is presented and vote selections can be input.	
1020	Observer Role - Attempt to a center position, and the left m	date in the upper most left hand position of the ballot presentation.  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.

Expected: The Observer cannot determine the Voter's input selections. Actual: Observer reported observations could be made from observation point 3. 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 observations could be made from observation point 2 and 3. 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 observations could be made from observation point 3. 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 observations could be made from observation point 2 and 3.

**Criteria for Evaluation of the Test Results:** The observer must not be able to determine the voter's selection from any observation position or any voter selection surface position.

Test Case Id	lentifier: 02 – 25 P.S. § 303	1.7(2) Selection of Candidates and Questions by Voter (Regular/ADA)
PA ST 25 P.S. § 3031.7		(2) Provides facilities for voting for such candidates as may be nominated
Requireme	ent:	and upon such questions as may be submitted.
	<b>ive:</b> To determine if a vote select candidates and question	
Test Equipn		None
	cedural Requirements:	None
Assumption	s:	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 presen	nted and vote selections can be input.
	Actual: The Ballot was prese	nted.
1010	Select the first candidate in th	ne first partisan 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 partisan contest excluding a straight party contest.	
	Actual: Selection was made for	or James Collins.
1020	Use the designated method to advance the ballot to the first "N of M" contest. Select the first "N" candid the contest. (e.g. in a Vote for 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	for Mary L. Daniel and Jack "Duke" Brodisky.
1030	Use the designated method to advance the ballot to the first "Question" contest. Select the "Yes" option in the contest.	
		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 o	f "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.
	Expected: 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
	Actual: All steps were successfully repeated was audio session.
1070	Close the polls and print the closed polls report tape.
	Expected: 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.
	Expected: The closed polls report presents the accumulated totals for the selections input above.
	Actual: All selections were accurately reported on the results report.
ritorio for	• Evaluation of the Test Results: The intended selections input above are recorded, store

and reported as input by the tester.

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Test Case Id	entifier: 03 – 25 P.S. 8 303	1.7(3) Straight Party and Pennsylvania Method
		(3) Permits each voter, at other than primary elections, to vote a straight
PA ST 25 P.S. § 3031.7 Requirements:		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 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 Objecti	ive: To determine if the v	oting Test Configuration: Precinct tabulation device configured as
system suppo	orts straight party voting an	
Pennsylvania	Method.	procedures and/or the device manufacturer.
Test Equipm		None
	edural Requirements:	None
Assumptions	<b>:</b>	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 present	nted and vote selections can be input.
1012	Actual: The ballot was presen	nted.
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 sele	ected.
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.	
	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 party selection.	
1020	Actual: All Republican candidates were selected.	
1030	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.	
	_	ation device displays or provides an indication of a vote selection for only the 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.
	Expected: 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.
	Expected: "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	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 account the Contest CARD contest Charles
	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.
	Expected: "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.
	Expected: 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 alocad and a percept is printed
	Expected: The polls closed and a report is printed.
	Actual: The polls were closed and results report printed.
	retual. The poils were crosed and results report printed.
1170	
	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.
Critorio for	Evaluation of the Test Pasults: The intended selections input above are recorded stored

**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.

Test Case Ide	entifier: 04 – 25 P.S. 8 303	1.7(4) Straight Party and Write-In
	2.S. § 3031.7	(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.
	ve: To determine if the voting and orts straight party voting and	ng Test Configuration: Precinct tabulation device configured as
Test Equipm		None
	edural Requirements:	None
Assumptions	<b>5:</b>	An election is loaded on the device and the polls are open, ready for voting.
Step		Description
1000	Activate a ballot for voting	
		nted and vote selections can be input.
	Actual: The ballot was presen	nted.
1010	Select the option for the first	party selection of the straight party.
	Expected: The precinct tabula selection in the straight party	ation device displays or provides an indication of a vote selection for the first party contest.
	Actual: Republican was select	cted.
1020	_	a advance through the ballot to each partisan contest. Observe all partisan contests a voter selection for all partisan candidates associated with the first straight party
		ation device displays or provides an indication of a vote selection for all the partisan sociated with the first straight party selection.
	Actual: All Republican candi	idates were selected.
1030	Observe the selection in the b	advance through the remainder of the ballot advancing to the ballot review screen. ballot review observing only the partisan contests associated with the first straight Use the designated method to cast the voted ballot.
		ation device displays or provides an indication of the selection for only the partisan irst straight party selection. After review the ballot is cast successfully.
	Actual: The ballot review scr partisan contests.	reen displayed the selections for all republican candidates and no selection for non-
1040	Activate a ballot for regular v	roting
	Expected: The ballot is presen	nted and vote selections can be input.

	Actual: The ballot was presented.
1050	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 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 partisan contest. Use the designated method to cast the voted ballot.
	Expected: 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.
	Actual: 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
	Expected: 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.
	Expected: 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.
	Actual: The device toggled.

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.
	Actual. All steps were repeated using all additions 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.
	Actual: All selections were accurately reported on the results report.
	Actual. All selections were accurately reported on the results report.
Critorio for	Evaluation of the Test Results: The intended selections input above are recorded, stored, and

**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 write-in candidate functions with a straight party selection.

Test Case Id	entifier: 05 – 25 P.S. § 303	1.7(5)	Selection of Candidate and Write-in
	2.S. § 3031.7		
	ve: To determine if the voti orts the selection of a candid		<b>Test Configuration:</b> (5) Permits each voter to vote for any person and any office for whom and for which he is lawfully entitled to vote, whether or not the name of such person appears upon the ballot as a candidate for nomination or election.
Test Equipm	nent:	None	
Special Proc	edural Requirements:	None	
Assumptions	<b>S:</b>	An e	election is loaded on the device and the polls are open, ready for ag.
Step			Description
1000	Activate a ballot for voting.		
	Expected: The ballot is prese	nted an	d vote selections can be input.
	Actual: The ballot was presen	nted.	
1010	Select the option for the first	candid	ate in the first partisan contest.
	Expected: The precinct tabular candidate selection in the first		evice displays or provides an indication of a vote selection for the first an contest.
	Actual: James Collins and Ar	rthur Re	emus were selected for President of the United States.
1020		allot re	ce through the remainder of the ballot advancing to the ballot review screen. eview observing only the first candidate in the first partisan contest is d to cast the voted ballot.
	-		evice displays or provides an indication of the selection for only the first contests. After review the ballot is cast successfully.
	Actual: James Collins and A	rthur R	temus were the only selection displayed.
1030	Activate a ballot for voting.		
	Expected: The ballot is prese	nted an	d vote selections can be input.
	Actual: The ballot was presen	nted.	
1040	Select the option for a write- Doe".	in cand	idate in the first partisan contest. Use the designed method to input "John
	Expected: The precinct tabula candidate.	ation de	evice displays or provides an indication of a vote selection for a write-in
	Actual: John Doe was input f	or Pres	ident of the United States.

1050	
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 write-in candidate in the first partisan contest is selected. 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 write-in candidate "John Doe" in first partisan contests. After review the ballot is cast successfully.
	Actual: John Doe was the only selection displayed.
1060	Activate a ballot for voting.
	Expected: 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.
	Expected: 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	entifier: 07– 25 P.S. § 3031	1.7(7) Attempt to Over Vote Contests and Questions (Regular/ADA)
	P.S. § 3031.7	(7) If it is of a type that registers the vote electronically, the voting system
Requiremen	ts:	shall preclude each voter from voting for more persons for any office than
Test Object	ivor To determine if the v	he is entitled to vote for or upon any question more than once.
	<b>ive:</b> To determine if the very over voting on contests	
questions	s over voting on contests	procedures and/or the device manufacturer.
Equipment:		None
	edural 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.	
	Activate a ballot for voting.	
	Expected: The ballot is presen	ented and vote selections can be input.
	Actual: The ballot was prese	ntad
	Actual. The banot was prese	aned.
1010		
1010	Select the first candidate in th	he first partisan "1 of 1" contest excluding a straight party contest.
	Europe de The massinet telev	election devices displays on provides on indication of a victo collection for the first
	_	ulation device displays or provides an indication of a vote selection for the first "1 of 1" contest excluding a straight party contest.
	candidate in the first partisan	1 of 1 contest excluding a straight party contest.
	Actual: James Collins and A	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 ve the action of attempting to place a second vote.
	_	ulation device displays or provides an indication of an attempt to over vote. The ght disallow the selection and not display any communication.
	Actual: Calvin Marino and K	Leith 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.
	T . 1 TT	
	_	ation device displays or provides an indication of an attempt to over vote. The ght disallow the selection and not display any communication.
	preemet tabalation device in	girt disaffow the selection and not display any communication.
	Actual: The device toggled.	
1040	TT 4 1 1 4 1 4 14	
	_	o 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).
	_	lation device advances to the first "N of M" contest. Once selected, the precinct
	tabulation device displays or contest.	r provides an indication of a vote for the first "N" candidates in the first "N of M"
	Actual: Mary L. Daniel and	Jack "Duke" Brodisky were selected.

10.50	
1050	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.
	Expected: 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.
	Expected: 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 1080X
	Actual: All steps were repeated using an audio session.
1100	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.
1110	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 attempts to select more persons than the vote for and any question more than once are unsuccessful.

e: To determine if the vo the voter to review change a vote selection be of.  It:  Activate a ballot for voting.	the described for normal election day operation by Pennsylvania	
Activate a ballot for voting.	An election is loaded on the device and the polls are open, ready for voting.	
Activate a ballot for voting.	voting.	
Activate a ballot for voting.	•	
-	Description	
-		
Actual: The ballot was present		
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.  Expected: The precinct tabulation device allow for the navigation and the voting inputs to be selected as described above.		
	hur Remus were selected for President of the United States. Mary L. Daniel and lected for Court of Common Pleas and "Yes" selected in all question contests.	
elections are indicated.  Expected: The precinct tabularerified.	advance the "Ballot Review". Observe the "Ballot Review" to see if the above ation device advances to the "Ballot Review" screen. The vote selections can be seen displayed the selection correctly.	
	retract to the first partisan "1 of 1" contest excluding the straight party contest.  tion device navigates to the first partisan "1 of 1" contest excluding the straight of the United States.	
	elect the first candidate in the all "N of M" contests, and supected: The precinct tabulate escribed above.  Cetual: James Collins and Arthock "Duke' Brodisky were seed see the designated method to elections are indicated.  Expected: The precinct tabulate erified.  Cetual: The ballot review screen seed see the designated method to expected: The precinct tabulate arty contest.	

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.	
	Expected: 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.	
	pected: 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: 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.					
			If the voting system is of a type which provides for the computation		
Requiremen	=		tabulation of votes at the district level, the district component of the		
requirement			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		
			red, 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		
			ediately after the polls are closed or where the tabulation of votes is		
			oleted.		
		_	It 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		
			ate to a voter that he has improperly voted for more candidates for		
			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		
			at 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		
			rd 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		
device has a	public counter, does not allo	w	described for normal election day operation by Pennsylvania		
the reopening	g of the polls, and supplies a	zero	procedures and/or the device manufacturer. This includes all		
proof and tal	ly report.		security locks and seals.		
Test Equipn	nent:	None			
Special Proc	edural Requirements:	None			
Assumption	s:	The e	election media is installed but the polls have not been opened.		
Step			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.				
	Expected: The precinct tabulation device opens the polls and prints a "Zero Proof" report.				
	Actual: Polls opened and zero proof report was printed.				
1010					
	Activate a ballot for voting.				
	Expected: The ballot is prese	nted and	d vote selections can be input.		

Actual: The ballot was presented.
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.
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.
Actual: Selections for Republican candidates were displayed. The counters had to be observed before the ballot is presented.
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.
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.
Use the designated method to attempt to reopen the polls.
Expected: The polls cannot be reopened.
Actual: The polls could not be reopened.
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.
	Expected: 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, 09, Permanent Physical Record, and Statistical Sample – 25 P.S. §§ 3031.7(4), (6), (8), (9); 3031.1; and 3031.17 System Integration

## PA ST 25 P.S. § 3031.7 Requirements:

- (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.
- (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.
- (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.
- (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				
PA ST 25 P.S. § 3031.7 Requirements:	(12) Provides acceptable ballot security procedures and 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>Premier Election Solutions Assure 1.2 VSTL Certification Test Report Rev 3 Dated August 16, 2009</u>

**Document II** – DRAFT SysTest Labs Certification Test Report No. 06-V-DB-058-CRT-01 Premier Election Solutions Assure 1.2 Voting System Incorporating GEMS, AccuVote-OS PC & CC, AccuFeed, AccuVote-OSX, AccuVote-TSX & R6, EMP, Key Card Tool, Voter Card Encoder, VCProgrammer, ExpressPoll 2000, 4000, & 5000, CTS, Assure Security Manager, AutoMark AIMS & VAT, Rev 1 Dated February 22, 2008

# 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>Premier Election Solutions Assure 1.2 VSTL Certification Test Report Rev 3 Dated August 16, 2009</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 – Not Available
Section
Page
Paragraphs
Review of Accuracy Test
Report Title - Premier Election Solutions Assure 1.2 VSTL Certification Test Report Rev 3 Dated Augus 16, 2009/ DRAFT SysTest Labs Certification Test Report No. 06-V-DB-058-CRT-01 Premier Election Solutions Assure 1.2 Voting System Incorporating GEMS, AccuVote-OS PC & CC, AccuFeed AccuVote-OSX, AccuVote-TSX & R6, EMP, Key Card Tool, Voter Card Encoder, VCProgrammer ExpressPoll 2000, 4000, & 5000, CTS, Assure Security Manager, AutoMark AIMS & VAT, Rev 1 Dated February 22, 2008
Section –2.3.3 FCA Volume, Stress, Data Accuracy, and Error Recovery Tests references DRAFT SysTest Labs report 06-V-DB-058-CRT-01 except TSX, 5.6 FCA Data Accuracy Testing and 5.6.1 FCA Data Accuracy Test Results, Appendix A/  5.6 Accuracy Test Summary, Appendix A Test Results Sec. 7.4 Accuracy Test Results
Page(s) –16, 39, Appendix A 1-50/ 34-35, 82-85
Paragraphs – <u>all</u>
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 - Premier Election Solutions Assure 1.2 VSTL Certification Test Report Rev 3 Dated Augus 16, 2009/ DRAFT SysTest Labs Certification Test Report No. 06-V-DB-058-CRT-01 Premier Election Solution Assure 1.2 Voting System Incorporating GEMS, AccuVote-OS PC & CC, AccuFeed, AccuVote-OSX AccuVote-TSX & R6, EMP, Key Card Tool, Voter Card Encoder, VCProgrammer, ExpressPoll 2000 4000, & 5000, CTS, Assure Security Manager, AutoMark AIMS & VAT, Rev 1 Dated February 22, 2008
Section – 2.3.3 FCA Volume, Stress, Data Accuracy, and Error Recovery Tests references DRAFT SysTest Labs report 06-V-DB-058-CRT-01 except TSX, 5.6 FCA Data Accuracy Testing and 5.6.1 FCA Data Accuracy Test Results, Appendix A/ 5.6 Accuracy Test Summary, Appendix A Test Results Sec. 7.4 Accuracy Test Results
Page(s) –16, 39, Appendix A 1-50/ 34-35, 82-85
Paragraphs – <u>all</u>

#### 25 P.S. § 3031.7 Requirement -

(14) Is safely transportable.

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

Report Title – Not Available (Premier Election Solutions Assure 1.2 VSTL Certification Test Report Rev 3 Dated August 16, 2009 references letter from the EAC to iBeta dated January 16, 2008 on the reuse of SysTest Labs hardware testing. Also, the iBeta test plan Premier Election Solutions Assure 1.2 VSTL Certification Test Plan, Rev 4 Dated July 29, 2009 Appendix D delivered separately states the full results of the documented environmental test review were included. This Appendix was not available).

Section -
Page
Paragraphs
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 – Not Available
Section – <u>N/A</u>
Page - N/A
Paragraphs - N/A