

## COMMONWEALTH OF PENNSYLVANIA TEST REPORT FOR RE-EXAMINATION OF ACCUVOTE-TSx VOTING SYSTEM VERSION 4.6.4 AND

## **GEMS ELECTION**

**MANAGEMENT SYSTEM VERSION 1.18.25** 

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## 1.0 INTRODUCTION

## 1.1 Scope

A re-examination of the ES&S AccuVote-TSx Voting System version 4.6.4 and GEMS version 1.18.25 (hereafter referred to as the "AccuVote-TSx 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 AccuVote-TSx Voting System, previously certified for use in the Commonwealth of Pennsylvania on January 17, 2006, to determine whether the system remains compliant with the requirements of Article XI-A of the Pennsylvania Election Code, sections 1101-A to 1122-A, 25 P.S. §§ 3031.1 – 3031.22, and to document compliance through the execution of single thread test cases where applicable.

## 1.3 References

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

- Article XI-A of the Pennsylvania Election Code, sections 1101-A to 1122-A, 25 P.S. §§ 3031.1 3031.22
- Federal Election Commission 2002 Voting Systems Standards
- Help America Vote Act (HAVA) of 2002, Public Law 107-252, 42 U.S.C. § 15301 et seq.
- Pro V&V Test Protocol for Re-Examination of ES&S AccuVote-TSx Voting System Version 4.6.4 and GEMS Election Management System Version 1.18.25

Term	Abbreviation	Definition	
Americans with Disabilities ActADACommercial Off-The-ShelfCOTSDirect Recording ElectronicDREElection Management SystemEMS		Americans with Disabilities Act of 1990 is a law enacted by the United States Congress to prohibit discrimination based on disability.	
		Commercial, readily available hardware or software.	
		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.	
		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.	

## **1.4** Terms and Abbreviations

Term	Abbreviation	Definition	
Federal Election CommissionFEC		Commission created in 1975 to regulate the campaign finance legislation in the United States.	
Independent Testing AuthorityITAthe National Association Directors (NASED) to per		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 Voting System 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 Voting System.

The Ballot Station application is used in conjunction with Guardian Election Management Software ("GEMS"). 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 Voting System consists of two detachable components: the tablet and the base. The AccuVote-TSx Voting System 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 AccuVote-TSx Voting System. Table 2.1 provides the component name, software/firmware version and a SHA-1 Hash, if calculated, during the re-examination.

Component Name	Version	Unique Identifier (digital signature or hash value)	
GEMS	1.18.25	Not Calculated	
Ballot Station	4.6.4	260e022339e4c0f9b4859416d9081b7dc552b964 - SHA1	
Election Media Processor	4.6.2	Not Calculated	
Key Card Tool	4.6.1	Not Calculated	
Voter Card Encoder	1.3.2	Not Calculated	
VCProgrammer	4.6.1	Not Calculated	
Cardwriter Cardwriter PCMcard.dll	1.1.5 1.1.4.0 N/A	Not Calculated	

## Table 2.1 Software

## 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)	
TSx D		287682, 278897, 289149	
ExpressPoll	5000		
Vote Card Encoder		P300200910, P300134792, P300106104	

## 2.3 **Peripherals**

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

## **Table 2.3 Peripherals**

Part Name Model Number		Serial Number(s)	
PCMCIA Transport Media		1000291, 1000400, 1000396, 1000398	
Desktop Printer	Oki Data B431 DN		
Ethernet Cards	DNH	8520-00025L, 8520-00031	
Port Hub	DSH-8	HGD39C006187	

#### 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
Smart Cards	Various	Cards used to activate ballots
8 <sup>1</sup> / <sub>2</sub> " x 11" paper	Various	EMS report paper
USB Thumbdrive	1	Sandisk USB 2.0 Cruzer 8 GB
Dell Latitude	1	Latitude D630 PC (S/N G9CJ5D1)
Voting Booth	3	TSx Voting Booths

#### **3.0 TEST PROCESS**

#### 3.1 Background

The AccuVote-TSx Voting System was certified for use in the Commonwealth of Pennsylvania on January 17, 2006, after an examination was conducted pursuant to the Pennsylvania Election Code. The AccuVote-TSx 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 AccuVote-TSx 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 AccuVote-TSx 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 1, 2012, at the Commonwealth Keystone Building, Hearing Room 1, 400 North Street, Harrisburg, Pennsylvania. The re-examination lasted approximately eight hours.

## 3.3 Test Approach

To achieve the objective of this re-examination, the Examiner separated the requirements of Article XI-A of the Pennsylvania Election Code, sections 1101-A to 1122-A, 25 P.S. §§ 3031.1 - 3031.22, into four main areas of test execution: (1) Review; (2) Targeted Functionality; (3)

System Integration; and (4) Penetration Analysis. The "Review" testing consisted of analyzing ITA and other third-party reports for specific tests that satisfied the requirements of the Pennsylvania Election Code and verifying that the AccuVote-TSx Voting System met those requirements. The "Targeted Functionality" testing sought to ascertain whether the AccuVote-TSx 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 AccuVote-TSx 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 AccuVote-TSx 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 AccuVote-TSx 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 AccuVote-TSx Voting System.

## 4.0 TEST FINDINGS AND RECOMMENDATIONS

The AccuVote-TSx Voting System, listed in Section 2.0 of this report, was subjected to the tests summarized in the following paragraphs.

## 4.1 Review

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

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

**Summary Findings:** The test reports submitted by ES&S satisfied the requirements set forth in 25 P.S. § 3031.5(a). The AccuVote-TSx Voting System was examined and approved by an ITA as meeting the applicable performance and test standards. *See* Software Functional Test Report Diebold Assure 1.1 Revision 2.0, dated March 09, 2007.

The design requirements of Sections 3031.7(11) and (14) of the Pennsylvania Election Code were met by the documented Product Safety Test in the submitted ITA reports. See page 91 of Appendix A. The transportation requirements of Section 3031.7(14) of the Pennsylvania Election Code were met by the combination of documented Hardware Non-Operating Environmental Tests which included: bench handling, vibration, low temperature, high temperature, and humidity. These components tests were designed to test the storage of precinct tabulation devices between elections, as well as transportation between the storage facility and the polling place. Although the test data was not provided directly in the report submitted, the ITA referenced two hardware reports as the basis for acceptance in the federal test campaign. See Change Release Report of the Diebold election Systems AccuVote-TSx DRE Voting Machine with AccuView Printer Module (Firmware Release 4.6.4) (citing Wyle Laboratories' Report No. 48629-06 "Hardware Qualification Testing of the Diebold Election Systems AccuVote-TSx DRE Voting Machine with AccuView Printer Module (Firmware Release 4.6.2)", dated May 17, 2005 and Wyle Laboratories' Report No. 48629-11 "Change Release of the Diebold Election Systems AccuVote-TSx DRE Voting Machine with AccuView Printer Module (Firmware Release 4.6.3)". dated August 4, 2005).

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

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

By review of the above stated documents, and the certification to the FEC 2002 VSS of the AccuVote-TSx Voting System, I conclude the AccuVote-TSx 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. The Examiner conducted three additional test cases: one to test updating the SSL certificate and two to test Cardwriter functionality. The test cases and a summary of the results and observations for each test case are also discussed below.

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

**Summary Finding:** During the execution of this test case, the observer did report being able to see parts of the ballot and voter inputs. The observer could not see the actual selections. Any jurisdiction using the AccuVote-TSx 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 AccuVote-TSx 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 Pennsylvania Election Code.

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

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

**Summary Finding:** 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 AccuVote-TSx 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 activated unless the voter chooses to have the display on. Any jurisdiction using the AccuVote-TSx 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 AccuVote-TSx 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 Pennsylvania Election Code.

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

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

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

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

This test case was designed to test for compliance with 25 P.S. § 3031.7(3), which requires that a DRE allow a voter to perform straight-party voting according to the "Pennsylvania Method." This test case was designed to ensure that a straight-party selection and the Pennsylvania Method

of straight-party voting could be recorded and reported as input for a standard voting session and an ADA voting session.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## Test Case Identifier: SSL Certificate Update:

This test case was designed to ensure performing the system maintenance of updating the SSL certificate does not adversely affect the operation of the AccuVote-TSx Voting System.

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. During the execution of this test case, it was demonstrated that performing the system maintenance of updating the SSL certificate did not adversely affect the operation of the AccuVote-TSx Voting System. *See* page 94 of Appendix A. 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 AccuVote-TSx Voting System with the SSL certificate update meets the requirements of the Pennsylvania Election Code.

## Test Case Identifier: Cardwriter Functional Verification (General Election):

This test case was designed to verify the voter access card writing function of the Express Poll 5000 in a General Election.

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. During the execution of the test case, the voter access card writing functions were verified. *See* page 95 of Appendix A. 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 AccuVote-TSx Voting System with the Express Poll 5000 component meets the requirements of the Pennsylvania Election Code.

## Test Case Identifier: Cardwriter Functional Verification (Closed Primary Election):

This test case was designed to verify the voter access card writing function of the Express Poll 5000 in a Closed Primary Election.

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. During the execution of the test case, the voter access card writing functions were verified. *See* page 98 of Appendix A. 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 AccuVote-TSx Voting System with the Express Poll 5000 component meets the requirements 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 Pennsylvania 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."

Additionally, two election definitions, a general and a closed primary election, were devised to reference specific input devices, voting patterns and results. Pre-voting reports were also 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 while the Examiner attempted to input the voting pattern as documented. The Examiner and Department of State staff members attempted to input a complex voting pattern consisting of distinct combinations of vote selection as documented in the Test Protocol (See Appendix A Election Definitions). The polls were closed and results reports were generated including cast vote records and ballot images. The voted data was then transferred to the election management system (EMS), and election summary reports, precinct summary reports, and ballot images were printed. At the conclusion of the test, the Examiner conducted a statistical recount of at least 10% of the votes cast using the cast vote records and ballot images. The procedure 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.

**Summary Finding:** No issues or anomalies were noted during the execution of this test case. The AccuVote-TSx 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 AccuVote-TSx 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 AccuVote-TSx 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 AccuVote-TSx 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 AccuVote-TSx Voting System precluded test voters from over voting.

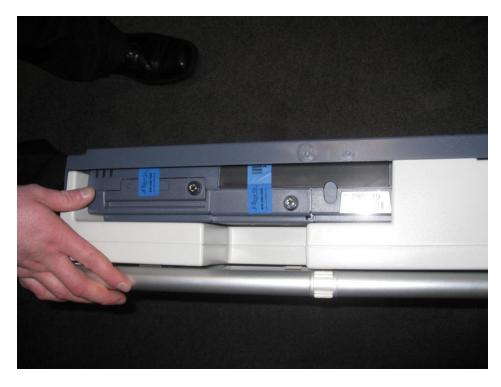
## 4.4 Penetration Analysis

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 locks on the TSx transportation case



Photograph 1.2 seals on the TSx case



Photograph 1.3 the back of the TSx transportation case



Photograph 1.4 the side of the TSx transportation case

**Summary Finding:** No issues, anomalies, or observations were noted during the execution of this test case. During the conducting of this analysis, the AccuVote-TSx 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 AccuVote-TSx Voting System meets the requirements of Section 3031.7(12) of the Pennsylvania Election Code.

## 5.0 CERTIFICATION FOR USE

The AccuVote-TSx 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**

AccuVote-TSx VOTING SYSTEM VERSION 4.6.4 AND GEMS ELECTION

**MANAGEMENT SYSTEM VERSION 1.18.25** 

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## **1.0 INTRODUCTION**

The primary purpose of the re-examination is to confirm that the ES&S AccuVote-TSx voting system version 4.6.4 and GEMS version 1.18.25 meets the requirements of Article XI-A of the Pennsylvania Election Code, sections 1101-A to 1122-A, 25 P.S. §§ 3031.1 – 3031.22. This re-examination is being performed per the direction of the Secretary of the Commonwealth, acting through the Pennsylvania Department of State, Bureau of Commissions, Elections and Legislation. This re-examination will commence on March 1, 2012 at the following location:

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

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

## 1.0 References

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

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

## **1.1** Terms and Abbreviation

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

"ADA" – Americans with Disabilities Act

"COTS" – Commercial Off-The-Shelf

"Department" – Pennsylvania Department of State

"DRE" – Direct Recording Electronic

"EAC" – Election Assistance Commission

"EMS" – Election Management System

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

"FEC" – Federal Election Commission

"GEMS" – ES&S 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 voting system version 4.6.4 and GEMS version 1.18.25 were certified for use in the Commonwealth of Pennsylvania on January 17, 2006 after an examination conducted pursuant to the Pennsylvania Election Code. The AccuVote-TSx voting system version 4.6.4 and GEMS version 1.18.25 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 re-examination of the AccuVote-TSx voting system. The Secretary granted the request.

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

## 2.0 TEST ITEMS

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

## 2.1 Software

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

## Table 2.1 Software

Component Name	Version	Unique Identifier (digital signature or hash value)
GEMS	1.18.25	TBD
Ballot Station	4.6.4	TBD
Election Media Processor	4.6.2	TBD
Key Card Tool	4.6.1	TBD

Voter Card Encoder	1.3.2	TBD
VCProgrammer	4.6.1	TBD
Cardwriter	1.1.5	TBD
Cardwriter	1.1.4.0	
PCMcard.dll	N/A	

## 2.2 Hardware

This subsection contains a listing of the hardware being evaluated.

#### Table 2.2 Hardware

Component Name	Model Number	Revision Number	Description
TSx	D	N/A	DRE
ExpressPoll	5000	N/A	Electronic Poll Book

## 2.3 Peripherals

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

## **Table 2.3 Peripherals**

Part	Product Description	Revision	Description
Name		Number	
PCMCIA		N/A	Transport media
Desktop Printer	Oki Data B431 dn	N/A	Report printer

## 2.4 Test Support Equipment/Materials

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

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

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

## 3.0 TEST MATERIALS

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

## **3.1** Technical Data Package

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

Document Name	Revision	Issue Date
AccuVote-TSx with AVPM Technical Data Package System Overview	1.0	04/14/2005
GEMS 1.18 Product Overview Guide	2.0	02/13/2004
Diebold Election Systems Inc. GEMS 1.18.25 Release Notes	1.18.25	01/16/2006
AccuVote-TSx Hardware Guide	8.0	02/19/2004
ES&S Company Overview	V8.12.10	N/A
AccuVote-TSx Pollworker's Guide	5.0	03/22/2005
Ballot Station 4.6 User's Guide	1.0	03/22/2005
GEMS 1.18 Election Administrator's Guide	9.1	03/08/2006
GEMS 1.18 Reference Guide	9.0	09/19/2006
System Administrator's Guide	5.0	05/07/2004
GEMS 1.18 User's Guide	12.0	04/21/2005
Key Card Tool 4.6 User's Guide	1.0	04/13/2005
VCProgrammer 4.6 User's Guide	1.0	04/03/2005
Voter Card Encoder 1.3 User's Guide	1.0	02/10/2004

#### Table 3.1 Documentation

## 3.2 Third Party Test Reports

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

Report Title	Description	Revision	Issue Date
Software Functional Test Report Diebold Assure 1.1	Software ITA Report	2.0	03/09/2007
Inspection, Test, and Evaluation of the AccuVote	Product Safety Report	48619-07	04/13/2005
TSx DRE Voting Machine			
Functional Qualification Testing of the Diebold	Hardware ITA Report	48619-10	07/04/2005
Election Systems VCProgrammer and Key Card			
Tool			
Change Release Report of the Diebold Election	Hardware ITA Report	52501-01	11/14/2005
Systems AccuVote-TSx DRE Voting Machine with			
AccuView Printer Module			
Premier SSL Digital Certificate Update Verification	ITA SSL Update	Rev 05	10/22/2008
Audit Report # 2008-1001-1	Report		

## **Table 3.2 Third Party Test Reports**

## 3.3 **Previous Test Results**

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

Report Title	Description	Revision	<b>Issue Date</b>
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			

#### Table 3.3 Previous Test Results

## 4.0 TEST SPECIFICATIONS

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

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

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

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

## 5.0 TEST PROCEDURES

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

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

## **Review:**

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

## **Targeted Functionality Test Cases:**

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

## System Integration Test Cases:

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

Since the time of the original certification on January 17, 2006, system maintenance has been performed on an SSL certification used for communication between the GEMS Server and the TSx units which expired in 2009. The update of the SSL certificate was examined by SysTest Labs and documented in the report "Premier SSL Digital Certificate Update Verification Audit Report # 2008-1001-1, Rev 5" dated October 22, 2008. This re-examination will execute test case "SSL Certificate Update" documented in Appendix C of this document to verify the voting system with the updated SSL certificate 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.

In addition to the re-examination, ES&S requested the examination of the voter access card writing component of the Express Poll 5000. Additional test cases have been designed and, time permitting, the following tests will be executed.

## **Additional Test Cases:**

- Test Case Identifier: Card writer Functional Verification (General Election)
- Test Case Identifier: Card writer Functional Verification (Closed Primary Election)
- SSL Certification Update

## 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 <i>Cumberland</i>	l County		
Colby Lincoln Delaware	County		Carter McGaw Philadelphia County			
Write-In			Write-In			
5 <sup>th</sup>	<b>tive in Congress</b> District e for One	Representative in Congress 10 <sup>th</sup> District Vote for One	5 <sup>th</sup> 1	<b>ive in Congress</b> District for One	Representative in Congress 10 <sup>th</sup> District Vote for One	
Ben Baker			Barbara Barret Hicks			
Allegheny	County	Cheryl Simon	Montgomer	y County	William Sullivan	

Γ					
Write-In	York County	Clinton Testo	Butler County		
	Lois Koss	Centre County	Write-In		
	Erie County	Write-In			
Governor	Write-In	Governor			
Vote for One		Vote for One			
Deep Lindeev		Charles Jasen			
Dean Lindsey Allegheny County		Montgomery County			
Don Etter		Shirley Henning			
Allegheny County		Luzerne County			
Joe Carlton		Write-In			
Washington County		When in			
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		Richard V. Suits			
Lehigh County		Cambria County			
Arnold Krill Lycoming County		Tabathia Song Allegheny County			
Lyconning County		Allegheny County			
Write-In		Kenneth Interlicchio Philadelphia County			
		Write-In			
Representative in the General Assembly 83 <sup>rd</sup> District	Representative in	Representative in the General Assembly 83 <sup>rd</sup> District	Representative in		
Vote for One	the General Assembly	Vote for One	the General 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		
Robert Tyrell	Write-In	Peter F. Saxton	Saul Currier		
McNett		Willamsport	Eldred		
Write-In		Write-In	Write-In		
Delegate to the National Conventio		Delegate to the National Convention			
Vote for Not More Than Th	ree	Electing 2 Males and 2 Fem Vote Not More Than Fou			
Gloria Dillion					
Heather Heidelbaugh		Vincent Seymour			
Herbert Devine George A. Fisk		(M) Committed to Barry Josey			
Doris Shiddles		Toni Hamilton			
Andre Ninia Brian Getz		(F) Committed to Calvin Marino			
Chad Snow		Sam Patel			
Diane Rubin		(M) Committed to Barry Josey			
Elizabeth Piazza					

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

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

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

Harry Rider	Peter Valle	R. J. Abbott	Lewis
Cascade	Muncy	Shrewsbury	
Data and Transli	Democrati		Saul Currier
Robert Tyrell McNett	Por escrito	Peter F. Saxton Willamsport	Eldred
ivioi voit		winamsport	Por escrito
Por escrito		Por escrito	
	5° Dictrite		
Delegado a la convención nacional No vote por no más de tre		Delegado a la convención nacion Elija 2 damas y 2 caballe	ai – 5. Distrito
	•	No vote por más de cua	
Gloria Dillion			
Heather Heidelbaugh Herbert Devine		Vincent Seymour (H) Committed to Barry Josey	
George A. Fisk		(II) committee to barry boody	
Doris Shiddles		Toni Hamilton	
Andre Ninia Brian Getz		(M) Committed to Calvin Marino	
Chad Snow		Sam Patel	
Diane Rubin		(H) Committed to Barry Josey	
Elizabeth Piazza		Robert Rocco	
Write-In		(H) Committed to Calvin Marino	
Write-In			
Write-In		Renee Cohn Jubelrier (M) Committed to Calvin Marino	
		Morton Steele	
		(H) Committed to Calvin Marino	
		Mary Burke	
		(M) Committed to Barry Josey	
		Nyda E. Hambin	
		(M) Committed to Barry Josey	
		Write-In	
Juez de la corte suprem	а	Juez de la corte supre	ma
Vote por uno		Vote por uno	
Richard Maxian		Linda Gapp	
Condado de Filadelfia		Condado de Cumberland	
Marjorie Hall Condado de Delaware		Patricia Smallmon Condado de Allegheny	
Robert L. Linkey Condado de Bucks.		Write-In	
Write-In			
Juez de la corte del estad	lo	Juez de la corte del est	ado
Vote por uno		Vote por uno	
Chris Carpenter		Eugene Ruff	
Condado de Montgomery		Condado de Washington	
		_	
Write-In		Lewis Tese Condado de Luzerne	
		Write-In	
Juez de la corte de primeras in	stancias	Juez de la corte de primeras	
Vote por no más de dos		No vote por más de de	S
Mary L. Daniel		Joanne Shollzert	

•			Williamsport				
John Roy <i>Clinton</i>			Kerry Jones Williamsport				
Jack "Duke" Brodisky <i>McNett</i>			Steven Miller Lewis				
Jon Young <i>Muncy</i>			Shirley Henning <i>Mill Creek</i>				
Vic Stabile <i>Gamble</i>			Por escrito				
Por escrito			Por escrito				
Por escrito							
	<b>lefe principal del condac</b> Término de cuatro años Vote por uno	10		<b>Jefe principal del conda</b> Término de cuatro años Vote por uno			
Norman Powers <i>Williamspor</i>	ť		Micheal Santarcangelo Fairfield				
Sandra Reilly <i>McNett</i>			Charles Place Gamble				
Por escrito			Por escrito				
	Director de la escuela Región 6 Término de cuatro años No vote por más de dos		Director de la escuela Región 6 Término de cuatro años No vote por más de dos				
Gerald Danson			Douglas Stone				
Greg Ortiz			Gerald Danson				
Shlomo Archibald			Greg Ortiz				
Delores DeVan			Shlomo Archibald				
Por escrito			Delores DeVan				
Por escrito			Por escrito				
			Por escrito				
Comisionado Puesto 1 Término de cuatro años Vote por uno	Comisionado Puesto 2 Término de cuatro años Vote por uno	Comisionado Puesto 3 Término de cuatro años Vote por uno	Comisionado Puesto 1 Término de cuatro años Vote por uno	Comisionado Puesto 2 Término de cuatro años Vote por uno	Comisionado Puesto 3 Término de cuatro años Vote por uno		
Stephen Harrick	Steve West	William Malicki	George Fisk	Tetty Rogiers	Arnold Wells		
Por escrito	Por escrito	Gary Klemann	Por escritoPor escritoPor escrito				
		Por escrito Referéndum	n a nivel estatal				
		Asunto	o del bono				

Sí										
No										
oting Pattern:										
Precinct 1 REP	В	В	В	В	В	В	В	В	В	В
	1	2	3	4	5	6	7	8	9	10
James Collins	Х			President of	the United S	tates X		Х		Х
Alexander P.	^				^	^		^		^
Bicket		Х					Х			
Carol Koethen			Х						Х	
Write-In				X						
Bob Ford		1	X	United S	tates Senato	or	Х		X	1
Colby Lincoln	Х	Х	^	Х	Х		^	Х	^	Х
Write-In	Χ	X		~	Λ	Х		~		X
			Repi	resentative in	Congress t	5th District	1			
Ben Baker	Х	Х	Х	Х	U		Х	Х	Х	Х
Write-In						Х				
		•	•		overnor	•	•		•	
Dean Lindsey				Х			Х			
Don Etter	х		Х		Х	v			v	v
Joe Carlton Edwin Lewis	X	Х				Х			Х	Х
Samuel Lawton		^						Х		
Write-In								~		
				Lieutena	ant Governo	r	1			
Scott Montes					Х					Х
Saul Currier				Х			X		Х	
Arnold Krill Write-In	Х	Х	Х			Х	Х	Х		
white-in			Representa	tive in the G	eneral Assei	nbly 83 <sup>rd</sup> Dis	strict			
Harry Rider	Х	Х		X		X		Х	Х	
Robert Tyrell			Х				Х			Х
Write-In					X\					
0			Pre	esidential No	mination De		1			
Gloria Dillion Heather	Х	Х		Х		Х		Х	Х	Х
Heidelbaugh		Х			Х					Х
Herbert Devine		Х	Х	Х			Х	Х	Х	Х
George A. Fisk	Х		V		Х				V	
Doris Shiddles Andre Ninia			Х					х	Х	
Brian Getz	Х		Х	Х			1	^		
Chad Snow	~		~	~			Х			
Diane Rubin							Х			
Elizabeth Piazza					Х					
Write-In						X				
Write-In Write-In				-		Х	-			
wille-III		1		Judge of the	e Superior C	ourt	1	1	1	1
Richard Maxian				- ango or un	X		Х		U	
Marjorie Hall		Х				Х				
Robert L. Linkey	Х			Х				Х		Х
Write-In			X	1	<u> </u>					
Chria Corportor	v	V		dge of the Co		h Court U	V	V	V	v
Chris Carpenter Write-In	Х	Х	Х	Х	Х	U	Х	Х	Х	Х
		1	Jud	ge of the Co	urt of Comm	on Pleas	1	l	l	1
Mary L. Daniel	Х	Х		X		X		Х	Х	Х
John Roy		Х						U		

Jack "Duke"	Х		Х	Х	Х		х		х	х
Brodisky	Х			~	Λ				~	~
Jon Young			Х				U			
Vic Stabile					Х					
Write-In						Х				
Write-In										
		r			ief Executiv		•		•	•
Norman Powers	Х		Х	Х		Х	Х	Х		Х
Sandra Reilly		Х			Х				Х	
Write-In										
					ector Region					
Gerald Danson	Х		Х	Х		Х		Х		
Greg Ortiz	Х				Х		Х			Х
Shlomo Archibald		Х	Х	Х	Х		Х	Х	Х	Х
Delores DeVan		Х				Х			Х	
Write-In										
Write-In										
				Commiss	ioner Seat 1					
Stephen Harrick	U	Х	Х	Х	Х		Х	Х	Х	Х
Write-In						Х				
				Refere	endum A					
Yes	U		Х	Х	Х		Х	Х		Х
No		Х				Х			Х	
					1					
<b>B</b> • • • • <b>P</b>	-	-	-			-	-	-	-	
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 t	he United St		1	n	1	r
Barry Josey	Х	U				Х				
Calvin Marino			Х	Х	Х			Х	Х	Х
Write-In							Х			
		1			ates Senato		1		1	
Oscar Draper	Х		Х	Х	Х	Х		Х		Х
Carter McGaw		Х					Х		Х	
Write-In										
			Repre	esentative in	Congress 5	<sup>th</sup> District				
Barbara Barret	Х	Х	Х		Х		Х		Х	
Hicks	Λ	~	~		~		~		~	
Clinton Testo				Х				Х		Х
Write-In						Х				
					vernor					
Charles Jasen	Х		Х	Х	Х		Х			
Shirley Henning		Х				Х		Х	Х	
Write-In										Х
				Lieutena	nt Governor					
Sherman R.				Х						
Bucher				^						
Richard V. Suits							Х			
Tabathia Song	Х								Х	
	^									
Kenneth	^	×	V		Y	v		~	1	1
Kenneth Interlicchio		х	х		Х	Х		Х		
Kenneth Interlicchio								X		х
Kenneth Interlicchio Write-In		 		ive in the Ge			strict			
Kenneth Interlicchio Write-In R. J. Abbott	 X		Representat	ive in the Ge	neral Assen		strict	x		X
Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton		 				nbly 83 <sup>rd</sup> Dis			X	
Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton		 	Representat X	X	neral Assen X	nbly 83 <sup>rd</sup> Dis X	strict X		X	
Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In		 	Representat X		neral Assen X	nbly 83 <sup>rd</sup> Dis X	X			
Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour		 	Representat X Pres	X sidential Non	neral Assen X	nbly 83 <sup>rd</sup> Dis X		X	X	
Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour		 	Representat X Pres U U	X	neral Assen X nination Del X	nbly 83 <sup>rd</sup> Dis X	X		X	
Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton	Х	X	Representat X Pres	X sidential Non	neral Assen X nination Del	nbly 83 <sup>rd</sup> Dis X egation	X	X		
Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton Sam Patel	X	X	Representat X Pres U U	X sidential Non	neral Assen X nination Del X	nbly 83 <sup>rd</sup> Dis X egation	X	X	X	
Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton Sam Patel Robert Rocco Renee Cohn	X  X	X X X X	Representat X Pre: U U U	X sidential Non X X	neral Assem X nination Del X X U	egation	X	X X X	X	
Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton Sam Patel Robert Rocco Renee Cohn	X	X	Representat X Pre: U U U	X sidential Non X	neral Assen X nination Del X X	nbly 83 <sup>rd</sup> Dis X egation X	X	X	X	
Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton Sam Patel Robert Rocco Renee Cohn Jubelrier	X X X X X	X X X X	Representat X Pre: U U U	X sidential Non X X X X	neral Assem X nination Del X X U	egation X X X X X X X	X	X X X X X	X	
Kenneth Interlicchio Write-In R. J. Abbott Peter F. Saxton Write-In Vincent Seymour Toni Hamilton Sam Patel Robert Rocco	X  X 	X X X X X	Representat X Pre: U U U	X sidential Non X X	neral Assem X nination Del X X U	egation	X	X X X	X	

		,		· · ·		,		1	•	
Write-In									Х	X
Write-In										Х
Write-In										Х
Write-In					<u> </u>					Х
		1 1		Judge of the	Superior C	ourt		N N		
Linda Gapp	×	× ×	~	Х	~	X		Х	X	
Patricia Smallmon	Х	Х	Х		Х	Х			Х	Х
Write-In							Х			
		1		dge of the Co	mmonweal	1				1
Eugene Ruff			Х	Х		Х	Х	Х	Х	
Lewis Tese	Х	Х			Х					Х
Write-In										
				ge of the Cou						
Joanne Shollzert	X	, v	Х	X	X	Х		X		Х
Kerry Jones	Х	X		Х	Х		Х	Х	Х	
Steven Miller		Х				Х			Х	
Shirley Henning			Х				Х			
Write-In										Х
Write-In										
		,,		County Ch	ief Executi	ve		1		n
Micheal	Х		Х	х	Х		Х	х	х	
Santarcangelo										
Charles Place		Х		<u> </u>		Х				Х
Write-In										
				School Dire	ector Regio	n 6		1	.,	
Douglas Stone		Х		X		<b>↓</b> ↓			X	
Gerald Danson	Х		Х	Х			Х	Х	Х	X
Greg Ortiz		Х		<u> </u>	X					Х
Shlomo Archibald	Х		Х		Х	X	Х			
Delores DeVan						Х		Х		
Write-In										
Write-In										
0 51	×	V I	~		ioner Seat		~	N N	X	×
George Fisk	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Write-In				Defer	endum A					
Yes	Х	1 1	Х	X	X	г	Х	U		
No	~	Х	^	^	~	Х	~	0	Х	Х
						1				L
Precinct 2 REP	В	В	В	В	В	В	В	В	В	В
	1	2	3	4	5	6	7	8	9	10
				President of t	he United S	States				
James Collins	Х	Х			Х		Х		Х	
Alexander P.		I	Х	<u> </u> T		Х				
Bicket			~			~				
Carol Koethen				Х				Х		
Write-In										Х
				United Sta	ates Senato	or				I
		Х						Х	-	Х
		+ +					Х	1	Х	
Bob Ford Colby Lincoln	Х		Х		Х	Х	~			
	Х			X			~			
Colby Lincoln Write-In			Repi	X resentative in	Congress :				Y	
Colby Lincoln Write-In Ben Baker	X	U		resentative in		5 <sup>th</sup> District	X	X	Х	Х
Colby Lincoln Write-In Ben Baker			Repi	resentative in X	Congress { X			X	Х	X
Colby Lincoln Write-In Ben Baker Write-In			Repi	resentative in X Gov	Congress :	5 <sup>th</sup> District	Х	X	X	X
Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey			Repi U	resentative in X	Congress X vernor	5 <sup>th</sup> District		X	X	X
Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter	X		Repi	resentative in X Gov	Congress { X	5 <sup>th</sup> District	Х	X		
Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton		U	Repi U	resentative in X Gov	Congress X vernor	5 <sup>th</sup> District	Х	X	X	X
Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton Edwin Lewis	X		Repi U	resentative in X Gov	Congress X vernor	5 <sup>th</sup> District	Х			
Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton Edwin Lewis Samuel Lawton	X	U	Repi U	resentative in X Gov	Congress X vernor	5 <sup>th</sup> District	Х			
Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton Edwin Lewis Samuel Lawton	X	U	Repi U	esentative in X Gov	Congress X vernor X	X X	Х			
Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton Edwin Lewis Samuel Lawton Write-In	X	U	Repi U	esentative in X Gov	Congress X vernor	X X	Х	X		
Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton Edwin Lewis Samuel Lawton Write-In Scott Montes	X	U X	Repi U	esentative in X Gov	Congress X vernor X	X X	X			X
Colby Lincoln Write-In Ben Baker Write-In Dean Lindsey Don Etter Joe Carlton Edwin Lewis Samuel Lawton	X	U	Repi U	esentative in X Gov	Congress X vernor X	X X	Х	X		

						X				
Write-In			Representat	ive in the Cr	noral Accor	X hly 83 <sup>rd</sup> Dis	trict			
Harry Rider	Х	X	Kepresentat X	ive in the Ge	eneral Asser	NDIY 83 DIS	u ICL	Х		Х
Robert Tyrell	^	^	^	Х	^	^	Х	^	Х	^
Write-In				~			^		^	
WIIIE-III			Pres	sidential No	mination De	egation				
Gloria Dillion	Х	Х	X			egution	Х	Х		Х
Heather		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					~~~~~	~~~~~		
Heidelbaugh	Х		Х							Х
Herbert Devine	Х			Х	Х		Х	U		Х
George A. Fisk		Х						Ŭ		
Doris Shiddles		Х			Х					
Andre Ninia			Х							
Brian Getz				Х	Х					
Chad Snow				Х		Х				
Diane Rubin						Х			Х	
Elizabeth Piazza						Х	Х			
Write-In									Х	
Write-In									Х	
Write-In										
					e Superior C	ourt				
Richard Maxian				X						Х
Marjorie Hall		Х				Х				
Robert L. Linkey	Х		Х		Х		Х	Х	Х	
Write-In										
					ommonwealt			·	·	
Chris Carpenter	Х	U	Х	Х	Х	Х	Х	Х	Х	Х
Write-In										
					irt of Comm					
Mary L. Daniel		Х	Х	Х		Х	Х	Х	Х	
John Roy	Х	Х							Х	Х
Jack "Duke"	Х		х		х	х		Х		Х
Brodisky	~		~		~	Χ		~		χ
Jon Young				Х						
Vic Stabile					Х		Х			
Write-In										
Write-In										
		1	1	County C	hief Executiv	/e	1			
Norman Powers	Х				Х	Х		Х	Х	
Sandra Reilly		Х	Х	Х			Х			Х
Write-In					L					
0 11 0		X			ector Regio	16		X	X	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Gerald Danson	U	X		Х	Х			X	X	Х
Greg Ortiz	U	Х	X	V	× ×	Х		Х	Х	V
Shlomo Archibald			Х	Х	Х	X				Х
Delores DeVan						Х	× ×			
Write-In							X			
Write-In		1		<b>Commut</b> -	l Joner Cart (		U	l		
Stove West	v		V		sioner Seat 2		~	~		v
Steve West	Х	~	Х	Х	Х	Х	Х	Х	U	Х
Write-In		Х		Defe	ondum A					
Vaa			× ×		endum A	Y	v v	v v		
Yes	U	~	Х	Х	Х	Х	Х	Х	U	V
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 S	-				
Barry Josey	Х	Х	•	X		X		Х		Х
Calvin Marino	~		Х		Х		Х			~
Write-In									Х	
		•	•	United St	tates Senato	r				
Oscar Draper	Х		Х	X			Х			Х
Carter McGaw		Х			Х			Х		
Write-In			1			Х			Х	
						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1	1	~ ~	

			Repro	esentative in	Congress 5	District	1	1		-
Barbara Barret			Х	Х	Х		Х	Х	Х	Х
Hicks Clinton Testo		Х				Х				
Write-In	Х	^				~				
	~			Go	vernor					
Charles Jasen	Х	Х	Х		X	Х			Х	
Shirley Henning	~	~~~~~		Х	~			Х		Х
Write-In							Х	7.		
				Lieutena	nt Governor					
Sherman R.		X						X		
Bucher		Х						Х		
Richard V. Suits										Х
Tabathia Song			Х				Х			
Kenneth	Х			Х	Х	Х			Х	
Interlicchio	^			^	^	^			^	
Write-In										
			Representat	ive in the Ge	eneral Assen	nbly 83 <sup>rd</sup> Dis	strict			
R. J. Abbott	Х	Х		Х	Х	Х		Х	Х	
Peter F. Saxton			Х				Х			Х
Write-In										
		I	Pre	sidential Nor	nination Del		n			
Vincent Seymour		Х		Х		X		Х		
Toni Hamilton	Х		Х		Х	Х	Х		Х	Х
Sam Patel		Х		Х		Х		Х		Х
Robert Rocco	Х		Х		Х	Х	Х	U	Х	Х
Renee Cohn	Х		Х		Х		Х	U	Х	Х
Jubelrier								0		~
Morton Steele	Х		Х		Х		Х		Х	
Mary Burke		Х		X						
Nyda E. Hambin		Х		Х						
Write-In										
Write-In										
Write-In										
Write-In				ludere ef the	Cum ani an C	t				
Linda Onen		X	1	Judge of the	Superior C		r	X		
Linda Gapp	V	Х	V	X	V	Х	V	Х	V	V
Patricia Smallmon	Х		Х	Х	Х		Х		Х	Х
Write-In			luc	Ige of the Co	mmonwoolt	h Court				
Eugene Ruff	Х	Х	Juc	-			Х	Х	Х	
	~	^	Х	Х	Х	Х	^	^	^	v
Lewis Tese Write-In			^							Х
		l	lude	ge of the Cou	irt of Comm	on Pleas	I	1		
Joanne Shollzert	Х	Х	X		X	X		Х	Х	Х
Kerry Jones	X	X	^	Х	<u>х</u>	 U	Х	^	X	^
Steven Miller	Λ	<u>^</u>	Х	^	~	0	X		~	Х
Shirley Henning			^	Х			^	Х		~
Write-In				^				^		
Write-In										
		1	1	County Ch	nief Executiv	/e	1	1		
Micheal										
Santarcangelo	Х		Х		Х	Х	Х		Х	
Charles Place		Х	1	Х			1	Х		Х
Write-In		~						~		~
		1	1	School Dire	ector Regior	16	1	1		
Douglas Stone		Х					U		Х	
Gerald Danson		X	1	Х		Х	U	Х	X	Х
Greg Ortiz	Х		Х							X
Shlomo Archibald	~		X	Х		Х		Х		~
Delores DeVan	Х		~		Х			~ ~		
Write-In	~	1	1		X		1			
Write-In			1		~		1			
		1	1	Commiss	sioner Seat 2	2	I	1		
Tetty Rogiers	Х	Х	Х	X	U	Х	Х	Х	Х	Х
					-					

				Dofo	rendum A					
Yes	Х	Х	U	X			U	Х	Х	
No				~		Х	0			Х
Precinct 3 REP	В	В	В	В	В	В	В	В	В	В
FIECHICI S KEP	1	2	3	4	5	6	7	8	9	10
	1 •	2		President of			1	0	3	10
James Collins	Х	Х		U		X		Х	1	Х
Alexander P.					Х		Х			
Bicket										
Carol Koethen			Х						Х	
Write-In										
			-	United S	tates Senato	or	-	-		
Bob Ford	U					Х			Х	
Colby Lincoln		Х		Х	Х		Х	Х		Х
Write-In			X			ath as a				
01 10	1		Repro	esentative in	Congress 1	0 <sup>m</sup> District				1
Cheryl Simon	V	Х		Х	v	v	v	v	Х	v
Lois Koss Write-In	Х		Х		Х	Х	Х	Х		Х
	1		1		overnor	1	1	1	1	1
Dean Lindsey				X			Х			
Don Etter	1		Х		Х					
Joe Carlton	Х		1	1		Х			Х	Х
Edwin Lewis		Х								
Samuel Lawton								Х		
Write-In										
	•	-		Lieutena	ant Governo	r				•
Scott Montes	Х		Х			Х		Х		
Saul Currier				Х						Х
Arnold Krill		Х			Х		Х		Х	
Write-In										
Detervitelle				tive in the G				1		
Peter Valle Write-In	Х	Х	Х	Х	U	Х	Х	X	Х	Х
wille-III			Dre	esidential No	mination De	legation		^		
Gloria Dillion	Х		FIE		X		Х			
Heather	X				<u>л</u>	Ŭ	~	Х	Х	
Heidelbaugh	~					U		~	X	
Herbert Devine	Х				Х	U	Х			
George A. Fisk		Х			Х		Х			Х
Doris Shiddles		Х	1	1	1	1				
Andre Ninia		Х		Х				Х		
Brian Getz			Х					Х		Х
Chad Snow			Х	Х					Х	Х
Diane Rubin			Х		ļ	ļ				
Elizabeth Piazza				Х	ļ	ļ				
Write-In									Х	
Write-In	+									+
Write-In				Judge of th	Superior C	Court				
Richard Maxian			Х	Judge of th	e Superior C		X			Х
Marjorie Hall		+	^	1	Х		^	x		^
Robert L. Linkey	Х	Х	+	Х	~	Х		~	Х	
Write-In			1							
		<b>I</b>	Ju	dge of the Co	ommonweal	th Court	1	1	1	<b>I</b>
Chris Carpenter	U	Х	X		X	X	Х	Х	U	Х
Write-In				Х						
				ge of the Co		on Pleas				
Mary L. Daniel		U	Х	Х	Х		Х	Х	Х	Х
John Roy		U		Х					Х	
Jack "Duke"	Х		Х		Х	Х		Х		Х
Brodisky										-
Jon Young	1	1	1	1	1	Х	1	1	1	1
Vic Stabile							Х			

		1	1							
Write-In	Х									
Write-In										
Name of Day	V	-			Chief Execut		V			
Norman Powers	Х	V	Х	Х	V	Х	Х	V	Х	V
Sandra Reilly Write-In		Х			Х			Х		Х
vvrite-in				Sahaal D	irector Regio					
Gerald Danson		Х	Х			X		Х		Х
Greg Ortiz		^	X	Х		^		X	X	^
Shlomo Archibald	Х	Х	~	X	Х	Х	Х	~	X	Х
Delores DeVan	X				X		X			~
Write-In	~									
Write-In										
	•	•	•	Commi	ssioner Seat	3				•
William Malicki	Х	Х	Х		Х		Х	Х	Х	Х
Gary Klemann				Х		Х				
Write-In										
				Refe	erendum A					
Yes	Х	~	X		Х	Х	~	Х	Х	X
No		Х		Х			Х			Х
Precinct 3 DEM	В 1	B 2	B 3	В 4	B 5	B 6	B 7	B 8	B 9	B 10
		2	-	4 President o	-	•		U	3	IV
Barry Josey				X		X		Х		
Calvin Marino	Х		Х	~ ~	Х		Х		Х	Х
Write-In		Х		1						
				United	States Senat					•
Oscar Draper		Х		Х	Х	Х		Х	Х	
Carter McGaw	Х		Х				Х			Х
Write-In			<u> </u>	<u> </u>		t ath at t				
	N N	N/		esentative i					N N	
William Sullivan	Х	X	X	Х	Х	X	X	U	Х	Х
Write-In					overnor					
Charles Jasen	Х		U	X	X		Х		Х	
Shirley Henning	~	Х		^	~	Х	^		^	Х
Write-In				+		~		Х		
	1	<u> </u>	I	Lieuter	ant Governe	or	<u> </u>			1
Sherman R.		v	N/					v		
Bucher		Х	Х		Х			Х		
Richard V. Suits										Х
Tabathia Song							Х			
Kenneth	Х			Х		Х			Х	
Interlicchio				~		^				
Write-In			Bonrocast	tive in the f	Conorol Asra		listrict			
Neil Carey	Х	X	Representa	ative in the C	eneral ASSE		X	Х		Х
Saul Currier	^	^	Х	^	X	^	^	^	X	^
Write-In					^				~	
	1	<u> </u>	Pro	esidential N	omination D	elegation	<u> </u>			1
Vincent Seymour			U		X		Х		Х	
Toni Hamilton	Х	Х	U	Х	İ	Х		Х		
Sam Patel			U		Х		Х		Х	
Robert Rocco	Х	Х	U	Х	U	Х		Х		
Renee Cohn	Х	Х		Х	U	Х		Х		
Jubelrier									_	_
Morton Steele	Х	U		Х		Х	V	Х		
Mary Burke							X		Х	
Nyda E. Hambin		+		+			Х		v	v
Write-In Write-In		+		+					Х	X
Write-In			+	+						X
	1				-					^
Write-In										Х

Linda Gapp			Х			Х		Х		
Patricia Smallmon	Х	Х		Х	Х		Х		Х	Х
Write-In										
			Jud	ge of the Co	mmonwealt	h Court				
Eugene Ruff	Х	Х		Х		Х	Х		Х	
Lewis Tese			Х		Х			Х		Х
Write-In										
			Judg	je of the Cou	Irt of Comm	on Pleas				
Joanne Shollzert		Х	Х		Х	Х		Х	Х	
Kerry Jones			Х	Х	Х	U	Х	Х		
Steven Miller		Х					Х		Х	Х
Shirley Henning				Х						Х
Write-In	Х									
Write-In	Х									
				County Cl	nief Executiv	ve				
Micheal Santarcangelo	Х		х	х		х	Х		Х	х
Charles Place					Х			Х		
Write-In		Х								-
				School Dir	ector Regio	n 6		1		
Douglas Stone	Х		Х		<b>y</b>	_		Х		
Gerald Danson		Х	Х	Х	Х	Х				Х
Greg Ortiz	Х			Х					Х	
Shlomo Archibald		Х			Х		Х	Х	Х	Х
Delores DeVan						Х	Х			
Write-In										
Write-In										
				Commiss	sioner Seat	3				
Arnold Wells	Х	Х	Х	Х	Х	Х	Х		Х	Х
Write-In								Х		
				Refer	endum A					
Yes	Х		Х		Х		Х		Х	
No		Х		Х		Х		Х		Х

#### **Test Results:**

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

Joe Carlton	4
Edwin Lewis	1
Samuel Lawton	1
Write-In	0
Undervotes	0
Lieutenant Governor	
Scott Montes	2
Saul Currier	2
Arnold Krill	5
Write-In	1
Undervotes	0
Childer votes	0
Representative in the General	Assembly 92nd District
Harry Rider	6
Robert Tyrell	3
Write-In	1
Undervotes	0
Presidential Nomination Deleg	ation
Gloria Dillion	7
Heather Heidelbaugh	3
Herbert Devine	7
George A. Fisk	2
Doris Shiddles	2
Andre Ninia	1
Brian Getz	3
Chad Snow	1
Diane Rubin	1
Elizabeth Piazza	1
Write-In	2
Undervotes	0
Judge of the Superior Court	
Richard Maxian	2
Marjorie Hall	2
Robert L. Linkey	4
Write-In	1
Undervotes	1
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	1
Jack "Duke" Brodisky	7
Jon Young	
Vic Stabile	1
Write-In	1
Undervotes	2
County Chief Executive	
Norman Powers	7
Sandra Reilly	3
Write-In	0
Undervotes	0
	U U
School Director Region 6	
Gerald Danson	5
Greg Ortiz	4
Shlomo Archibald	8
Delores DeVan	3
Write-In	0
Undervotes	0
Childrivotes	v
Commissioner Sect 1	
Commissioner Seat 1	

Stephen Harrick	8
Write-In	1
Undervotes	1
Referendum A	
Yes	6
No	3
Undervote	1
Precinct 1 DEM	
President of the United States	
Barry Josey	2
Calvin Marino	6
Write-In	1
Undervotes	1
United States Constan	
United States Senator Oscar Draper	7
Oscar Draper Carter McGaw	3
Write-In	3 0
Write-In Undervotes	
Undervotes	0
Representative in Congress 5t	h Dictrict
Barbara Barret Hicks	6
Clinton Testo	3
Write-In	1
Undervotes	0
Undervotes	0
Governor	
Charles Jasen	5
Shirley Henning	4
Write-In	1
Undervotes	0
Childer votes	
Lieutenant Governor	
Sherman R. Bucher	1
Richard V. Suits	1
Tabathia Song	2
Kenneth Interlicchio	5
Write-In	1
Undervotes	0
Childer votes	
Representative in the General	Assembly 83rd District
R. J. Abbott	5
Peter F. Saxton	3
Write-In	1
Undervotes	1
Presidential Nomination Deleg	
Vincent Seymour	3
Toni Hamilton	5
Sam Patel	3
Robert Rocco	5
Renee Cohn Jubelrier	5
Morton Steele	4
Mary Burke	2
Nyda E. Hambin	1
Write-In	5
Undervotes	7
Judge of the Superior Court	
Linda Gapp	2
Patricia Smallmon	7
Write-In	1
Undervotes	0
Judge of the Commonwealth (	
Eugene Ruff	6
Lewis Tese	4

Write-In	0
Undervotes	0
Judge of the Court of Commo	on Pleas
Joanne Shollzert	7
Kerry Jones	7
Steven Miller	3
Shirley Henning	2
Write-In	1
Undervotes	0
County Chief Executive	
Micheal Santarcangelo	7
Charles Place	3
Write-In	0
Undervotes	0
Undervotes	0
Calcal Dimente Destant	
School Director Region 6	
Douglas Stone	3
Gerald Danson	7
Greg Ortiz	3
Shlomo Archibald	5
Delores DeVan	2
Write-In	0
Undervotes	Ő
ender votes	0
Commissioner Seat 1	
George Fisk	10
Write-In	0
Undervotes	0
Referendum A	
Yes	5
No	4
Undervote	1
Childer vote	
Precinct 2 REP	
Treenet 2 KET	
D 1	
President of the United States	
James Collins	5
Alexander P. Bicket	2
Carol Koethen	2
Write-In	1
Undervotes	0
United States Senator	
Bob Ford	3
Colby Lincoln	6
Write-In	1
Undervotes	0
<b>Representative in Congress 5</b>	th District
Ben Baker	6
Write-In	2
Undervotes	$\frac{1}{2}$
	-

#### Governor

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

Lieutenant Governor	
Scott Montes	2
Saul Currier	3
Arnold Krill	4
	1
Write-In	
Undervotes	0
Representative in the General	Assembly 83rd District
Harry Rider	7
Robert Tyrell	3
Write-In	0
Undervotes	0
Presidential Nomination Deleg	ation
Gloria Dillion	6
Heather Heidelbaugh	3
Herbert Devine	5
George A. Fisk	1
Doris Shiddles	2
Andre Ninia	1
Brian Getz	2
Chad Snow	2
	2
Diane Rubin	2
Elizabeth Piazza	2
Write-In	2 2
Undervotes	2
Judge of the Superior Court	
Richard Maxian	2
Marjorie Hall	2
Robert L. Linkey	6
Write-In	0
Undervotes	0
Undervotes	0
Judge of the Commonwealth C	Court
Chris Carpenter	9
Write-In	0
Undervotes	1
Undervotes	1
	-
Judge of the Court of Common	
Mary L. Daniel	7
John Roy	4
Jack "Duke" Brodisky	6
Jon Young	1
Vic Stabile	$\frac{1}{2}$
Write-In	0
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 Arabib-14	
Shlomo Archibald	4
Delores DeVan	1
Write-In	1
Undervotes	3
Commissioner Seat 2	
Steve West	8
Write-In	
Undervotes	1
Referendum A	
Yes	6
No	
	2
Undervote	2

President of the United Sta	
Barry Josey	6
Calvin Marino	3
Write-In	1
Undervotes	0
United States Senator	
Oscar Draper	5 3
Carter McGaw	
Write-In	2
Undervotes	0
Representative in Congres	
Barbara Barret Hicks	7
Clinton Testo	2
Write-In	1
Undervotes	0
Governor	
Charles Jasen	6
Shirley Henning	3
Write-In	1
Undervotes	0
Lieutenant Governor	
Sherman R. Bucher	2
Richard V. Suits	1
Tabathia Song	2
Kenneth Interlicchio	5
Write-In	0
Undervotes	0
Representative in the Gene	-
R. J. Abbott	7
Peter F. Saxton	3
Write-In Undervotes	0
Under votes	v
Presidential Nomination D	Delegation
Vincent Seymour	4
Toni Hamilton	7
Sam Patel	5
Robert Rocco	7
Renee Cohn Jubelrier	6
Rence Comi subcitici	5
Morton Steele	
Morton Steele	2
Morton Steele Mary Burke	2 2
Morton Steele Mary Burke	2 2 0
Morton Steele Mary Burke Nyda E. Hambin	2
Morton Steele Mary Burke Nyda E. Hambin Write-In Undervotes	2 0 2
Morton Steele Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Cou	2 0 2 rt
Morton Steele Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Cou Linda Gapp	2 0 2
Morton Steele Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Cou Linda Gapp	2 0 2 rt 3
Morton Steele Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Cou Linda Gapp Patricia Smallmon	2 0 2 rt 3 7
Morton Steele Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Cou Linda Gapp Patricia Smallmon Write-In Undervotes	2 0 2 rt 3 7 0 0
Morton Steele Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Cou Linda Gapp Patricia Smallmon Write-In Undervotes Judge of the Commonweal	2 0 2 rt 3 7 0 0
Morton Steele Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Cou Linda Gapp Patricia Smallmon Write-In Undervotes Judge of the Commonweal Eugene Ruff	2 0 2 rt 3 7 0 0 0
Morton Steele Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Cou Linda Gapp Patricia Smallmon Write-In Undervotes Judge of the Commonweal Eugene Ruff Lewis Tese	2 0 2 rt 3 7 0 0
Morton Steele Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Cou Linda Gapp Patricia Smallmon Write-In	2 0 2 rt 3 7 0 0 0
Morton Steele Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Cou Linda Gapp Patricia Smallmon Write-In Undervotes Judge of the Commonweal Eugene Ruff Lewis Tese Write-In Undervotes	2 0 2 rt 3 7 0 0 0
Morton Steele Mary Burke Nyda E. Hambin Write-In Undervotes Judge of the Superior Cou Linda Gapp Patricia Smallmon Write-In Undervotes Judge of the Commonweal Eugene Ruff Lewis Tese Write-In	2 0 2 rt 3 7 0 0 0

<b></b>	
Steven Miller	3
Shirley Henning	2
Write-In	0
Undervotes	1
Undervotes	1
County Chief Executive	
Micheal Santarcangelo	6
Charles Place	4
Write-In	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
	2
Undervotes	2
Commissioner Seat 2	
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
United States Senator	
Bob Ford	2
Colby Lincoln	6
Write-In	1
Undervotes	1
<b>Representative in Congress 10</b>	th District
Cheryl Simon	3
Lois Koss	7
Write-In	0
Undervotes	0
Governor	
Dean Lindsey	
	2
Don Etter	2
Joe Carlton	4
Edwin Lewis	1
Samuel Lawton	1
Write-In	0
Undervotes	0
Lieutenant Governor	
Scott Montes	4
Saul Currier	2
Arnold Krill	4
Write-In	0
Undervotes	0
Donnegontative in the Course	A generally 94-1 District
Representative in the General	
Peter Valle	8

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

Barry Josey	3
Calvin Marino	6
Write-In	
Undervotes	0
United States Senator	
Oscar Draper	6
Carter McGaw	4
Write-In	0
Undervotes	0
Chucivotes	
Representative in Congress 10	Nh Distaist
Kepresentative in Congress 10	
William Sullivan	9
Write-In	0
Undervotes	1
Governor	
Charles Jasen	5
Shirley Henning	3
Write-In	1
Undervotes	1
Undervotes	1
Lieutenant Governor	
Sherman R. Bucher	4
Richard V. Suits	1
Tabathia Song	1
Kenneth Interlicchio	4
Write-In	0
Undervotes	0
Undervotes	0
Representative in the General	
Neil Carey	7
Saul Currier	3
Write-In	0
Undervotes	0
Presidential Nomination Deleg	zation
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	5 7
Undervotes	, ,
Judge of the Superior Court	
Linda Gapp	3
Patricia Smallmon	7
Write-In	0
Undervotes	0
Judge of the Commonwealth (	Court
Eugene Ruff	6
Lewis Tese	4
Write-In	0
Undervotes	0
	·
Judge of the Court of Commo	n Pleas
Joanne Shollzert	6
Kerry Jones	5
Steven Miller	4
Shirley Henning	2
Write-In	2
Undervotes	1
County Chief Executive	
County Offer Executive	

Michael Senterson asla	7
Micheal Santarcangelo	7
Charles Place	2
Write-In	1
Undervotes	0
School Director Region 6	
Douglas Stone	3
Gerald Danson	6
Greg Ortiz	3
Shlomo Archibald	6
Delores DeVan	
	2
Write-In	0
Undervotes	0
Commissioner Seat 3	
Arnold Wells	9
Write-In	1
Undervotes	0
Referendum A	
Yes	5
No	5
Undervote	0
	v
Precinct 3 Non Partisan	
Referendum A	
Yes	2
No	$\frac{1}{2}$
Undervote	1
Cumulative Totals RE	Ъ.
Cumulative Totals KE	
President of the United States	
James Collins	15
Alexander P. Bicket	6
Carol Koethen	6
Write-In	2
Undervote	1
United States Senator	
Bob Ford	8
Colby Lincoln	18
Write-In	3
Undervote	1
	1
Representative in Congress 5th	1 District
Ben Baker	
Write-In	3
Undervote	3
Representative in Congress 10	th District
Charul Simon	
Cheryl Simon	3
Lois Koss	7
Write-In	0
Undervote	0
G	
Governor	
Dean Lindsey	6
Don Etter	6
Joe Carlton	12
Edwin Lewis	3
Edwin Lewis	
Edwin Lewis Samuel Lawton	3
Edwin Lewis Samuel Lawton Write-In	3 0
Edwin Lewis Samuel Lawton	3

Lieutenant Governor	
Scott Montes	8
Saul Currier	7
Arnold Krill	13
Write-In	2
Undervotes	0
Democratication in the Community	
Representative in the General	
Harry Rider	13
Robert Tyrell	6
Write-In	1
Undervotes	0
Representative in the General	Assembly 84rd District
Peter Valle	8
Write-In	1
Undervotes	1
Presidential Nomination Delega	ation
Gloria Dillion	16
	9
Heather Heidelbaugh	
Herbert Devine	15
George A. Fisk	7
Doris Shiddles	5
Andre Ninia	5
Brian Getz	8
Chad Snow	7
Diane Rubin	
	4
Elizabeth Piazza	4
Write-In	5
Undervotes	5
Judge of the Superior Court	
Richard Maxian	7
Marjorie Hall	6
Robert L. Linkey	15
Write-In	1
Undervotes	1
Childer votes	
Judge of the Commonwealth C	
Chris Carpenter	25
Write-In	1
Undervotes	4
Judge of the Court of Common	Pleas
Mary L. Daniel	21
John Roy	7
Jack "Duke" Brodisky	19
Jon Young	3
Vic Stabile	4
Write-In	2
Undervotes	4
Compter CL: CE	
County Chief Executive	
Norman Powers	18
Sandra Reilly	12
Write-In	0
Undervotes	0
Sahaal Dimata Desite (	
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	
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kephen Harrick         8           Vrite-In         1           Admissioner Seat 2 REP         ************************************
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# Undervotes0Representative in the General Assembly 83rd DistrictR. J. Abbott12Peter F. Saxton6Write-In1Undervotes1

## Representative in the General Assembly 84rd DistrictNeil Carey7Saul Currier3

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Write-In         3           Undervores         2           County Chief Executive         2           Charles Place         9           Write-In         1           Undervores         0           Stantarcangelo         20           Charles Place         9           Write-In         1           Undervores         0           Stantarcangelo         20           Stantarcangelo         20           Stantarcangelo         20           Stantarcangelo         20           Stantarcangelo         19           Greg Orbiz         9           Greg Orbiz         2           Stantarcangelo         10           Undervores         2           Commissioner Seat J DEM         1           Greg Frisk         10           Undervores         0           Undervores         1           Commissioner Seat 2 DEM         1           Yrite-In         0           Undervores         1           Oudervores         1           Oudervores         1           Oudervores         1           Stantareageloon         1 <td></td> <td></td>		
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Douglas Stone         8           Geral Danson         19           Grag Ortiz         9           Shlomo Archibald         15           Delores DeVan         6           Write-In         1           Undervotes         2           Commissioner Seat 1 DEM         1           Gorge Fisk         10           Write-In         0           Undervotes         0           Vertrotes         0           Vertrotes         0           Undervotes         1           Tetty Rogiers         9           Write-In         0           Undervotes         1           Commissioner Seat 2 DEM         1           Tetty Rogiers         9           Write-In         0           Undervotes         1           Commissioner Seat 3 DEM         1           Armold Wells         9           Write-In         1           Undervotes         0           Write-In         1           Undervotes         0           Write-In         1           Undervotes         1	School Director Region 6	
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Greg Ortiz         9           Shlomo Archibald         15           Delores DeVan         6           Write-In         1           Undervotes         2           Commissioner Seat 1 DEM           George Fisk         10           Write-In         0           Undervotes         0           Verite-Sn         0           Undervotes         0           Verite-In         0           Undervotes         0           Verite-In         0           Undervotes         0           Verite-In         0           Undervotes         1           Commissioner Seat 3 DEM         1           Armold Wells         9           Write-In         1           Undervotes         0           Write-In         1           Undervotes         0           Write-In         1           Undervotes         0           Write-In         1           Veres         15		10
Shlomo Archibald         15           Delores DeVan         6           Write-In         1           Undervotes         2           Commissioner Seat 1 DEM           George Fisk         10           Write-In         0           Undervotes         0           Commissioner Seat 2 DEM           Tetty Rogiers         9           Write-In         0           Undervotes         1           Commissioner Seat 2 DEM           Tetty Rogiers         9           Write-In         0           Undervotes         1           Commissioner Seat 3 DEM           Armold Wells         9           Write-In         1           Undervotes         0           Referendum A DEM           Yes         15	Grad Ortiz	
Delores DeVan         6           Write-In         1           Undervotes         2           Commissioner Seat 1 DEM         1           George Fisk         10           Write-In         0           Undervotes         0           Commissioner Seat 2 DEM         1           Tetty Rogiers         9           Write-In         0           Undervotes         1           Commissioner Seat 2 DEM         1           Tetty Rogiers         9           Write-In         0           Undervotes         1           Commissioner Seat 3 DEM         1           Arnold Wells         9           Write-In         1           Undervotes         0           Write-In         1           Undervotes         0           Write-In         1           Undervotes         0           Referendum A DEM         1           Yes         15           No         11		
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Undervotes0Referendum A DEM		
Referendum A DEMYes15No11		
Yes 15 No 11	Undervotes	0
Yes 15 No 11		
Yes 15 No 11	Referendum A DEM	
No 11		15
Undervoie 4		
	Undervote	4

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

33 20 7

**Referendum A** Yes No Undervote

#### **Election Definition: Pennsylvania Certification General Election**

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

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

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

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

#### **Configuration:**

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

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

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

Republican			
Calvin Marino Keith Satterwhite Democratic			
John P. Defazio Louis Denn <i>Green</i>			
June Perkins David Heroux <i>Libertarian</i>			
Write-In			
	United Stat	t <b>es Senator</b> or One	
	Volen	or One	
Colby Lincoln <i>Republican</i>			
Oscar Draper Democratic			
Eric Sheely <i>Libertarian</i>			
Write-In			
	Representative in Congress 5 <sup>th</sup> District Vote for One		Representative in Congress 10 <sup>th</sup> District Vote for One
Ben Baker <i>Republican</i>			Lois Koss <i>Republican</i>
Barbara Barrett Hicks Democratic			William Sullivan Democratic
Write-In			Write-In
	Governor/Lieut		
Joe Carlton Arnold Krill <i>Republican</i>			
Charles Jasen Kenneth Interlicchio Democratic			
Robert Marsh Theodore Kopp <i>Green</i>			
Write-In			
Representative in the General AssemblyRepresentative in the General Assembly83 <sup>rd</sup> District84 <sup>th</sup> District			
	<b>83<sup>ra</sup> District</b> Vote for One		vistrict or One
Harry Rider <i>Republican</i>		Peter Valle <i>Republican</i>	
R. J. Abbott Democratic		Neil Carey Democratic	

Judge of the Superior Court Vote for One	
Judge of the Superior Court Vote for One	
Judge of the Superior Court Vote for One	
dge of the Commonwealth Court Vote for One	
ge of the Court of Common Pleas	
Vote for Not More Than Two	
County Chief Executive Four Year Term Vote for One	
County Controller Four Year Term Vote for One	
ge	Vote for One  e of the Court of Common Pleas Vote for Not More Than Two  County Chief Executive Four Year Term Vote for One  County Controller Four Year Term

Dona 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         Geraid Danson Republican/Democratic         Shomo Archibaid Republican/Democratic         Shomo Archibaid Republican/Democratic         Write-in         Write-in         Steve West Republican         Steve West Republican         Steve West Republican         Steve West Republican         Steve West Republican         Steve West Republican         Tetty Rogiers Democratic         Write-in         Write-in         Statewide Referendum Water and Sewer Improvements Board Arevina and loans to municipalities and public utilities, necessary of nation, more mater expansion, expan										
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 Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican Steve West Steve West Steve West Steve West Steve West Steve West Democratic Write-In Statewide Referendum Water and Sever Improvements Gond Referendum Water and Sever Improvements and Improvements, property, rights and easements, plans and specifications, surveys, estimates of costs and revenues, profession, expained, repain or readmont system projects? Yes No	Write-In									
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 Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican Steve West Steve West Steve West Steve West Steve West Steve West Democratic Write-In Statewide Referendum Water and Sever Improvements Gond Referendum Water and Sever Improvements and Improvements, property, rights and easements, plans and specifications, surveys, estimates of costs and revenues, profession, expained, repain or readmont system projects? Yes No										
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 Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican/Democratic Shiomo Archibald Republican Steve West Steve West Steve West Steve West Steve West Steve West Democratic Write-In Statewide Referendum Water and Sever Improvements Gond Referendum Water and Sever Improvements and Improvements, property, rights and easements, plans and specifications, surveys, estimates of costs and revenues, profession, expained, repain or readmont system projects? Yes No		District Attorney								
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         Four Year Term Vote for Not More Than Two           Gerald Danson Republican/Democratic         Sthomo Archibald Republican/Democratic           Shlomo Archibald Republican/Democratic         Store Term Vote for One           Write-In         Steve West Republican         Commissioner Seat 3 Four Year Term Vote for One           Steve West Republican         Steve West Republican         Miliam Mailcki Republican           George Fisk Democratic         Tetty Rogiers Democratic         Arnold Weils Democratic           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 joans, property, rights and assements, plans and specifications, surveys, estimates or closts and revunes, prefeasibility studies, engineering and legal services and all other expenses necessary operational machinery and sequipment, Lexipans, property, rights and assements, plans and specifications, surveys, estimates to closts and revunes, prefeasibility studies, engineering and legal services and all other expenses necessary operation, construction, improvement, expansion, extension, repart readment system projects?           Yes         No										
Republican         Donald Hensley         Democratic         Write-In         School Director         Region 6         Four Year Term         Vote for Not More Than Two         Gerald Danson         Republicar/Democratic         Share Commissioner         Seat 2       Commissioner         Seat 3         Four Year Term       Vote for One         Wilte-In         Wilte In       Commissioner         Seat 3       Four Year Term       Vote for One         Vote for One       Wiltiam Micro Term         State Yea       Commissioner       State Yea         Democratic       Wiltiam										
Republican         Donald Hensley         Democratic         Write-In         School Director         Region 6         Four Year Term         Vote for Not More Than Two         Gerald Danson         Republicar/Democratic         Share Commissioner         Seat 2       Commissioner         Seat 3         Four Year Term       Vote for One         Wilte-In         Wilte In       Commissioner         Seat 3       Four Year Term       Vote for One         Vote for One       Wiltiam Micro Term         State Yea       Commissioner       State Yea         Democratic       Wiltiam										
Donald Hensley Democratic         Write-In         School Director Region 6 Four Year Term Vote for Not More Than Two         Cerald Danson Republicar/Democratic         Shore Commissioner Seat 1 Four Year Term Vote for One         Write-In         Write-In         Work for Not More Than Two         Commissioner Seat 1 Four Year Term Vote for One         Seat 1 Four Year Term Vote for One         Stephen Harrick Republican         Steve West Republican         Arrold Weils Democratic         Write-In         Write-In         Statewide Referendum Water and Sewer Improvements Bond Referendum         O 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 to costs and revues, prefeasibility studies, engineeming and legal services and all other expenses necessary operational machinery and equipment, lands, property, rights and easements, plans and specifications, surveys, estimates to costs and revues, prefeasibility studies, engineeming and legal services and all other expenses necessary or incident to the acquisition, construction, improvement, expansion, extension, repair or enabilitiation of all or part of the drinking water system, storm water, nonpoint source										
Democratic         Write-In         School Director Region 6 Four Year Term Vote for Not More Than Two         Gerald Danson Republican/Democratic         Shomo Archibald Republican/Democratic         Write-In         Write-In         Write-In         Steve West Republican/Democratic         Steve West Republican         Steve West Republican         Republican         Write-In         Steve West Republican         Republican         Burnocratic         Write-In         Steve West Republican         Republican         Arnold Wells Democratic         Write-In         Write-In         Statewide Referendum Water and Sewer Improvements Bond Referendum         Do you favor the incurring of indeltedness by the Commonwealth of \$400,000,000 for grants and loans to municipalities 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 treatment system projects?         Yes       No         No       Retention of Tony Grzanich	Republican									
Democratic         Write-In         School Director Region 6 Four Year Term Vote for Not More Than Two         Gerald Danson Republican/Democratic         Shomo Archibald Republican/Democratic         Write-In         Write-In         Write-In         Steve West Republican/Democratic         Steve West Republican         Steve West Republican         Republican         Write-In         Steve West Republican         Republican         Burnocratic         Write-In         Steve West Republican         Republican         Arnold Wells Democratic         Write-In         Write-In         Statewide Referendum Water and Sewer Improvements Bond Referendum         Do you favor the incurring of indeltedness by the Commonwealth of \$400,000,000 for grants and loans to municipalities 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 treatment system projects?         Yes       No         No       Retention of Tony Grzanich	Donald Hensley									
School Director Region 6 Four Year Term Vote for Not More Than Two           Gerald Danson Republican/Democratic           Shlomo Archibald Republican/Democratic           Shlomo Archibald Republican/Democratic         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         Write-In           Stephen Harick Republican         Steve West Democratic         Common Vote for One         William Malicki Republican           George Fisk Democratic         Tetty Rogiers Democratic         Arnold Wells Democratic         Mrite-In           Write-In         Write-In         Write-In         Mrite-In           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 lega pervices and all other expression, estension, etension, etension etension, etension, etension, etension, etension,										
School Director Region 6 Four Year Term Vote for Not More Than Two           Gerald Danson Republican/Democratic           Shlomo Archibald Republican/Democratic           Shlomo Archibald Republican/Democratic         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         Write-In           Stephen Harick Republican         Steve West Democratic         Common Vote for One         William Malicki Republican           George Fisk Democratic         Tetty Rogiers Democratic         Arnold Wells Democratic         Mrite-In           Write-In         Write-In         Write-In         Mrite-In           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 lega pervices and all other expression, estension, etension, etension etension, etension, etension, etension, etension,										
Region 6 Four Year Term Vote for Not More Than Two         Gerald Danson Republican/Democratic         Shlomo Archibald Republican/Democratic         Write-In         Write-In         Seat 1 Four Year Term Vote for One         Stephen Harrick Republican         Stephen Harrick Republican         Stephen Harrick Republican         Tetty Rogiers Democratic         Write-In         Stephen Harrick Republican         Tetty Rogiers Democratic         Write-In         Stephen Harrick Republican         Tetty Rogiers Democratic         Write-In         Write-In         Steve West Republican         Tetty Rogiers Democratic         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 expension, expaint or, 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	Write-In									
Region 6 Four Year Term Vote for Not More Than Two         Gerald Danson Republican/Democratic         Shlomo Archibald Republican/Democratic         Write-In         Write-In         Seat 1 Four Year Term Vote for One         Set 1 Four Year Term Vote for One         Stephen Harrick Republican         Berocratic         Write-In         Stephen Harrick Republican         Tetty Rogiers Democratic         Write-In         Stephen Harrick Republican         Tetty Rogiers Democratic         Write-In         Stephen Harrick Republican         Tetty Rogiers Democratic         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 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         No       Retention of Tony Grzanich										
Region 6 Four Year Term Vote for Not More Than Two         Gerald Danson Republican/Democratic         Shlomo Archibald Republican/Democratic         Write-In         Write-In         Seat 1 Four Year Term Vote for One         Stephen Harrick Republican         Stephen Harrick Republican         Stephen Harrick Republican         Tetty Rogiers Democratic         Write-In         Stephen Harrick Republican         Tetty Rogiers Democratic         Write-In         Stephen Harrick Republican         Tetty Rogiers Democratic         Write-In         Write-In         Steve West Republican         Tetty Rogiers Democratic         Write-In         Write-In         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 expansion, explait or rehabilitation of all or part of the drinking water system, storm water, nonpoint source projects, nutrient credit		School Director								
Four Year Term Vote for Not More Than Two         Gerald Danson Republican/Democratic         Shlomo Archibald Republican/Democratic         Write-In         Write-In         Commissioner Seat 1 Four Year Term Vote for One         Seat 2 Four Year Term Vote for One         Steve West Republican         William Malicki Republican         George Fisk Democratic         Democratic         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 expansion, externion, 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										
Gerald Danson Republican/Democratic         Shlomo Archibald Republican/Democratic         Write-In       Write-In         Write-In       Commissioner Seat 1 Four Year Term Vote for One       Commissioner Seat 3 Four Year Term Vote for One       Commissioner Seat 3 Four Year Term Vote for One         Stephen Harrick Republican       Steve West Republican       Common Vote for One       William Malicki Republican         George Fisk Democratic       Tetty Rogiers Democratic       Arnold Wells Democratic       Democratic         Write-In       Write-In       Write-In         Statewide Referendum Water and Sewer Improvements Bond Referendum         Day ou 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 expansion, externion, reparison, extension, reparison, extension, reparison, extension, reparison, extension, reparison operation, materials, nonpoint source projects, nutrient credits and wastewater treatment system projects?         Yes       No       Retention of Tony Grzanich       Retention of the Supreme Court of the Commonwealth of Pennsylvania?										
Republican/Democratic         Sholmo Archibald Republican/Democratic         Write-In       Write-In         Commissioner Seat 1 Four Year Term Vote for One       Commissioner Seat 3 Four Year Term Vote for One       Commissioner Seat 3 Four Year Term Vote for One         Stephen Harrick Republican       Steve West Republican       William Malicki Republican         George Fisk Democratic       Tetty Rogiers Democratic       Arnold Wells Democratic         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 public utilities for the cost of all albor, materials, necessary operational machinery and equipment, lands, property, rights and public utilities for the cost of all albor, materials, necessary operational machinery and equipment, lands, property, rights and public utilities for the cost of all albor, materials, necessary operational machinery and equipment, lands, property, rights and public utilities of all oper and the drinking water system, storm water, nonpoint source projects, nutrient credits and wastewater treatment system projects?         Yes       No         No       Retention of Tony Grzanich be retained for an additional term as Justice of the Supreme Court of the Commonwealth of Pennsylvania?		Vote for Not More Than Two	)							
Republican/Democratic         Sholmo Archibald Republican/Democratic         Write-In       Write-In         Commissioner Seat 1 Four Year Term Vote for One       Commissioner Seat 3 Four Year Term Vote for One       Commissioner Seat 3 Four Year Term Vote for One         Stephen Harrick Republican       Steve West Republican       William Malicki Republican         George Fisk Democratic       Tetty Rogiers Democratic       Arnold Wells Democratic         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 public utilities for the cost of all albor, materials, necessary operational machinery and equipment, lands, property, rights and public utilities for the cost of all albor, materials, necessary operational machinery and equipment, lands, property, rights and public utilities for the cost of all albor, materials, necessary operational machinery and equipment, lands, property, rights and public utilities of all oper and the drinking water system, storm water, nonpoint source projects, nutrient credits and wastewater treatment system projects?         Yes       No         No       Retention of Tony Grzanich be retained for an additional term as Justice of the Supreme Court of the Commonwealth of Pennsylvania?										
Republican/Democratic         Write-In         Write-In         Commissioner       Commissioner         Seat 1       Seat 2         Four Year Term       Seat 3         Four Year Term       Vote for One         Stephen Harrick       Steve West         Republican       Steve West         Democratic       Democratic         Write-In       Write-In         Write-In       Write-In         Write-In       Write-In         Statewide Referendum       Write-In         Write-In       Write-In         Write-In       Write-In         Write-In       Write-In         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 oprational 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 rehabilition of all or part of the drinking water system, storm water, nonpoint source projects, nutrient credits and wastewater treatment system projects?         Yes       No         No       Shall Tony Grzanich be retained for an additional term as Justice of the Supreme Court of the Commonwea		tic								
Republican/Democratic         Write-In         Write-In         Commissioner       Commissioner         Seat 1       Seat 2         Four Year Term       Seat 3         Four Year Term       Vote for One         Stephen Harrick       Steve West         Republican       Steve West         Democratic       Democratic         Write-In       Write-In         Write-In       Write-In         Write-In       Write-In         Statewide Referendum       Write-In         Write-In       Write-In         Write-In       Write-In         Write-In       Write-In         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 oprational 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 rehabilition of all or part of the drinking water system, storm water, nonpoint source projects, nutrient credits and wastewater treatment system projects?         Yes       No         No       Shall Tony Grzanich be retained for an additional term as Justice of the Supreme Court of the Commonwea	Chlome Archibeld									
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         Stephen Harrick Republican       Steve West Republican       William Malicki Republican         George Fisk Democratic       Tetty Rogiers Democratic       Milliam Malicki Republican         Write-In       Wite-In       Mire-In         Statewide Referendum Water and Sewer Improvements Bond Referendum Dublic 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		tic								
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 Republican         Steve West Republican         Four Year Term Vote for One         William Malicki Republican           George Fisk Democratic         Tetty Rogiers Democratic         Arnold Wells Democratic         Arnold Wells Democratic           Write-In         Statewide Referendum Water and Sewer Improvements Bond Referendum         Write-In           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, expansion, expansion, expansion, 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	Write-In									
Seat 1 Four Year Term Vote for One     Seat 2 Four Year Term Vote for One     Seat 3 Four Year Term Vote for One       Stephen Harrick Republican     Steve West Republican     William Malicki Republican       George Fisk Democratic     Tetty Rogiers Democratic     Arnold Wells Democratic       Write-In     Write-In     Write-In       Statewide Referendum Water and Sewer Improvements Bond Referendum     Write-In       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	Write-In									
Seat 1 Four Year Term Vote for One     Seat 2 Four Year Term Vote for One     Seat 3 Four Year Term Vote for One       Stephen Harrick Republican     Steve West Republican     William Malicki Republican       George Fisk Democratic     Tetty Rogiers Democratic     Arnold Wells Democratic       Write-In     Write-In     Write-In       Statewide Referendum Water and Sewer Improvements Bond Referendum     Write-In       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			T							
Four Year Term Vote for One       Four Year Term Vote for One       Four Year Term Vote for One         Stephen Harrick Republican       Steve West Republican       William Malicki Republican         George Fisk Democratic       Tetty Rogiers Democratic       Arnold Wells 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?										
Vote for One         Vote for One         Vote for One           Stephen Harrick Republican         Steve West Republican         William Malicki Republican           George Fisk Democratic         Tetty Rogiers Democratic         Arnold Wells Democratic           Write-In         Write-In         Write-In           Statewide Referendum Water and Sewer Improvements Bond Referendum         Write-In           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           Shall Tony Grzanich be retained for an additional term as Justice of the Supreme Court of the Commonwealth of Pennsylvania?										
Stephen Harrick Republican       Steve West Republican       William Malicki Republican         George Fisk Democratic       Tetty Rogiers Democratic       Arnold Wells 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?										
Republican       Republican       Republican         George Fisk Democratic       Tetty Rogiers Democratic       Arnold Wells 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?										
George Fisk Democratic       Tetty Rogiers Democratic       Arnold Wells 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?										
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?	Republican	Republican	Republican							
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?		Tatta Davian	A							
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?										
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?	Democratic	Democratic	Democratic							
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           Extention of Tony Grzanich           Shall Tony Grzanich be retained for an additional term as Justice of the Supreme Court of the Commonwealth of Pennsylvania?	Write-In	Write-In	Write-In							
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           Extention of Tony Grzanich           Shall Tony Grzanich be retained for an additional term as Justice of the Supreme Court of the Commonwealth of Pennsylvania?										
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           Shall Tony Grzanich be retained for an additional term as Justice of the Supreme Court of the Commonwealth of Pennsylvania?										
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?			Poforondum							
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?		water and Sewer Improvements Bond	Reierendum							
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?	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									
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?		the drinking water system, storm water, nonpoin	nt source projects, nutrient credits and wastewater							
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									
Shall Tony Grzanich be retained for an additional term as Justice of the Supreme Court of the Commonwealth of Pennsylvania?	No									
		Retention of Tony Grzanich	1							
Yes	Shall Tony Grzanich be retaine	d for an additional term as Justice of the Suprer	ne Court of the Commonwealth of Pennsylvania?							
	Yes									

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

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

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

Π	Comisionado						Со	misio	onado							Comi	siona	do	
	Puesto 1							Puest								Pu	esto 3		
	Término de cuatro años					Téi			uatro	años					Térr	nino d			s
	Vote por uno						Vo	te po	r uno							Vote	por ur	סר	
	Stephen Harrick Republicano	St	eve V		əpubl	icanc	)							v	Villiam	Malic Rej	ki <i>publica</i>	ano	
	George Fisk Demócrata	Τe	etty R		s emóc	rata								A	rnold		mócra	ta	
	Por escrito	Po	Por escrito													crito			
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	¿Está usted a favor de incurrir un endeudamiento por el Estado de \$400,000,000 por subvenciones y prestamos municipalidades y servicios públicos por el cotos de toda la mano de obra, materiales, maquinaria operacional necesaria equipo, tierras, propiedad, derechos y servidumbres, planos y especificación, encuestas, calculo de costos e ingresos, estudio 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, proyecto de recurso sin punto, créditos de nutrientes y proyectos de sistemas de tratamiento de aguas negras?															ria y udios ción,			
	Sí																		
	No																		
					R	eten	ción	de T	ony G	rzani	ch								
									-										
	¿Debe Tony Grzanich ser re	etenido	por u	n téri	mino	adici	onal	como	magis	strado	de la	corte	supre	ema d	el Esta	ado de	Penn	sylvar	nia?
	Sí																		
	No																		
	NO																		
					F	Reter	nción	de D	ebbie	e Marl	ks								
	¿Debe Debbie Marks ser re	etenida p	oor ur	n térm	nino a	adicio	nal c	omo	magis	trada	de la	corte	suprei	ma de	el Esta	do de	Penns	ylvani	a?
	Sí																		
	No																		
	Voting Pattern:																		
	Ballots will be voted an	d oost	wit	h the	$f_{01}$	louvi	nar	otto	rn I	20110	to 10	and	10		o inn	t 110	ing t		П٨
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	audio capability. Ballots		d 10	ın P	reci	nct	I an	d Ba	llot	10 in	Prec	cinct	3 W1	II ex	ercise	e the	Penn	sylva	ania
	Method for straight part	ty.																	
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	Democratic X		Х		5				Р	5	5	0	5		5			0	
	Green	-															<u> </u>		
	Libertarian			Der		A./?	Х							Х					
	James Collins			Pres		VICE	Pre		nt of ti		1	tates				Х	r –	1	
	Arthur Remus				Х			Х		Х	х					^			U
	Calvin Marino					Х						Х	Х		Х		Х	<u> </u>	
	Keith Satterwhite											``							
	John P. Defazio																		<u> </u>

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David Heroux																			
Write-In																		Х	
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Colby Lincoln					Х							Х			Х				
Oscar Draper						Х				Х	Х		Х	Х		Х	Х	Х	
Eric Sheely							Х												
Write-In								Х											Х
				R	epre	senta	ative	in Co	ongre	ss 5 <sup>th</sup>	Distr	ict							
Ben Baker					Х	Х					U		Х	Х		Х		Х	Х
Barbara Barrett								Х		Х		Х					Х		
Hicks																			
Write-In							Х								Х				
					G	overr	nor/L	ieute	nant	Gover	nor								
Joe Carlton							Х	Х		Х	Х		Х	Х		Х	Х		Х
Arnold Krill																			
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Kenneth																			
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Robert Marsh						1		1	1	1		1			1			1	1
Theodore Kopp						1		1	1	1		1			1	1	1	1	
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Harry Rider											, . <u>.</u>	X	X			Х	Х		Х
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Derek Carlson	-					1		Х		1		1		Х		1	-		1
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Chris Carpenter					V	V	Х	Х		Х	V		Х	V	Х	V	X		
Eugene Ruff					Х	Х					Х			Х		Х	Х		
Write-In												Х						Х	Х
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Mary L. Daniel					Х	<u> </u>				Х	Х	Х				Х	Х	Х	X
Jack "Duke"					Х	Х				Х	Х		Х					Х	Х
Brodisky																			
Joanne Schollzert						Х	Х					Х		Х	Х	Х	Х		
Kerry Jones							Х	Х					Х	Х	Х				
Write-In								Х	Р										
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Norman Powers					Х	Х					Х		U	Х		Х			
Micheal							Х	Х		Х		Х			Х		Х		
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Gerald Danson		<u>├</u>			X X	X	v	<u> </u>		X X	X	Х	^	X	XU	U		X	X
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No	Х	Х				Х	Х	Х	Х	Х	Х		Х					Х	Х	Х
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Yes	Х	Х	V	V	Х	Х	V	Х	V	Х	Х	Х	Х	V	Х	V	V	U	Х	V
No			Х	Х			X		X	ebbie	Mort			Х		Х	Х			Х
Yes		V		V	Х	Х	Rete	ntion	X	X	X	X	Х			Х	U	U	1	Х
No	Х	Х	х	Х	^	^	Х	Х	^	^	^	^	^	х	х	^	0	0	х	^
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Precinct 2a	В 1	В 2	B 3	В 4	В 5	В 6	В 7	В 8	В 9	В 10	В 11	B 12	B 13	В 14	B 15	B 16	B 17	B 18	B 19	B 20
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Republican	Х	Х	Х		U	U	U	30	aigiit U	Party	U	U	U	U	1	U	U	U	U	U
Democratic	^	^	^	х	0	0	0		0	Г	0	0	0	0		0	0	0	0	0
Green				~																
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James Collins		[			X	Х	X				X	X			1	Х	Х	Х	Х	
Arthur Remus					-												1	1	1	
Calvin Marino									Х				Х	Х			1	1	1	1
Keith Satterwhite	L	L	L				L	L	L		L	L	L	L	L	L	1		L	
John P. Defazio									ľ			[								
Louis Denn																				
June Perkins								Х							Х					
David Heroux			<b> </b>												L	L	1		ļ	
Write-In						-														Х
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Colby Lincoln					Х		Х				Х	Х		Х			Х	Х		Х
Oscar Draper						Х		V	Х				Х		V				Х	
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Write-In								41.40	in Ca	ongres		Dietri				Х				
Ben Baker		<u> </u>			Х	X	X	ative	X	ongres	X	Distr	Ct	Х	U	Х	Х	Х	1	1
Barbara Barrett					^	~	^	Х	^		^	Х		^	0	^	^	^	х	Х
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Joe Carlton Arnold Krill					Х		X	Х	X			X			U	Х	Х		Х	Х
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R. J. Abbott							Х	v			Х	Х	Х		v			Х	Х	
Derek Carlson			<u> </u>					Х							Х	<u> </u>		+		
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					~	Х	X	x			X		X	X	Х	X	x	X	X
					×	X	×	×			X		X	X	X	X	X	X	X
					×	x	×	×			X	X	X	X	X	×	x	X	X
					×	X	X	X			X		X	X	x	×	x	X	X
					×					X	X		X	X	X	X	X	X	X
				x	×				s Ser	X	X		X 	x	X	X	X	X	X
							iited	State		X				X			X X		
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				X	×	Ur X senta	nited	State X		x ator x	X	x		X		X			
				X	X	Ur	nited X ative	State X	s Ser	ator X Ss 5 <sup>th</sup>	X	x	X		U				X
				X	×	Ur X senta	nited	State X	s Ser	x ator x	X	x		X		X			
				X	×	Ur X senta	nited X ative	State X	s Ser	ator X Ss 5 <sup>th</sup>	X	x	X	X	U	X			X
				X	X epre	Ur X senta	iited X ative	State X in Cc	es Ser	x ator x ss 5 <sup>th</sup> x	X Distri	x	X	X	U	X			X
				X	X epre	Ur X senta	iited X ative	State X in Cc	s Ser	x ator x ss 5 <sup>th</sup> x	X Distri	x	X	X	U	X			X
		X X X X B B 1 2	X X X X X U B B B B 1 2 3	X X X X X X X U X B B B B B 1 2 3 4	I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I         I       I       I	Image: state of the state	X       X       X         X       X       X         X       X       X         X       X       X         X       X       X         X       X       X  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Attorney       X       X       X       X       X       X       X       X         Commissioner Seat 2       X       X       X       X       X       X       X         District Attorney       X       X       X       X       X       X       X         District Attorney       X       X       X       X       X       X       X         District Attorney       X       X       X       X       X       X       X       X       X       X       <t< td=""><td>X       X       X       X       X       X       X       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       V       X       X       V       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X 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Charles Jasen						Х		Х			Х					Х				
Kenneth																				
Interlicchio																				
Robert Marsh												Х			Х		Х	1		
Theodore Kopp												~			~		~			
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Peter Valle				<u> </u>	Х	Х		Х	Х		Х				Х	Х	Х		Х	
Neil Carey							Х					Х	Х					Х		Х
Write-In														Х						
						,	Judg	e of t	he Si	uperio	or Cou	urt								
Robert L. Linkey				1	Х		X	Х			Х	Х	Х		Х	Х	Х	Х		
Patricia Smallmon						Х			Х					Х						Х
Write-In						~			~					~				1	Х	~
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Chris Carpenter						Х		Х	Х		Х		Х			Х	Х	U		Х
Eugene Ruff							Х					Х		Х					Х	
Write-In					Х										Х					
-						Judg	e of t	he C	ourt	of Co	mmor	n Plea	s							
Mary L. Daniel					Х	X	Х	Х			Х			U		Х	Х	Х		
Jack "Duke"		l	1	<u>†</u>	X	X			Х	<u> </u>		Х	1	U		X	X		1	
Brodisky				1			1	1						U				1		
Joanne Schollzert			──	──	──		х		х									V	v	v
		<sup> </sup>	┝──		┝──		^		~									Х	X	X
Kerry Jones		Ļ]	<u> </u>	<b> </b>	<u> </u>			Х							Х				Х	Х
Write-In											Х	Х	Х		U					
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Norman Powers				1	Х	Х		Х	Х			Х			Х	Х	U		Х	Х
Micheal							Х				Х		Х	Х			-	1		
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Lincoln																				
Donna Berke						Х					Х			Х			Х			
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Franklin Margo				1							X			Х			Х			
Donald Hensley					Х	Х	Х	Х	Х		~	Х	Х	~	Х	Х	~	Х	Х	Х
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Gerald Danson					Х	Х	Х	Х			Х	Х	U	Х	Х	Х		Х	Х	Х
Shlomo Archibald					Х	Х		Х	Х		Х	Х	U	Х	Х	Х	Х	Х	Х	Х
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Steve West					Х	Х		X	X		X	Х	Х		Х	Х	Х	Х	Х	
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Yes	Х	Х			Х		Х		Х		Х	Х	Х	Х						
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No Yes No	X	X	X	X	x	U	Х	Х							Х			Х		
No Yes	X	X B	X B	X B	X	B	X B	X B	В	В	В	В	В	В	X B	В	В	X B	В	В
No Yes No									B 9	B 10	B 11	B 12	B 13	B 14		B 16	B 17		B 19	B 20
No Yes No	В	в	в	В	В	В	В	B 8	9	10	11				В			в		
No Yes No Precinct 3	B 1	B 2	B 3	B 4	B 5	B 6	В	B 8 Str	9 aight		11 /	12	13		B 15		17	B 18		20
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No Yes No Precinct 3 Republican	B 1	B 2	B 3	B 4	B 5	B 6	В	B 8 Str	9 aight	10 Party	11 /	12	13		B 15		17	B 18		20

		Pros	idon	t/Vice	Pro	sidor	t of t	helln	ited S	States							
James Collins		X			X	X			X	X		Х	1	Х	Х		Х
Arthur Remus		~				~			~			^		~	~		~
Calvin Marino			Х					Х					1				
Keith Satterwhite			^					^									
John P. Defazio	+ + -										Х		Х				-
Louis Denn											^		^				
June Perkins	+ + -			Х												Х	-
David Heroux				^												^	
Write-In	+	-											-	-	-		
white-in					vitod	State	es Ser	otor									
		1	V			Sidle	5 361	X	1	Х	V	V	V	1	V	1	V
Colby Lincoln	+	V	Х		Х	V		^	V	^	Х	Х	Х	V	Х		Х
Oscar Draper		Х		V		Х			Х					Х	_	X	
Eric Sheely		_		Х												Х	_
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Lois Koss		Х		Х	Х	Х		Х		Х	Х		Х		U	Х	Х
William Sullivan			Х						Х					Х			
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Joe Carlton Arnold Krill		Х	Х		Х			Х				Х		Х		Х	
Charles Jasen				Х					Х						Х		Х
Kenneth			1							1		1	1			1	
Interlicchio																	
Robert Marsh											Х		Х				
Theodore Kopp											^		^				
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white-in	- Pc	nroso	ntati	vo in	tho (		ral Ac	com	bly 84		trict						
Peter Valle			man				i ai Aa		JIY 04			Х	1	U	V	1	1
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Neil Carey	+-+-		Х						Х		Х		Х	-	_	Х	V
Write-In																	Х
<u> </u>	<del></del>			Judg		he Si	uperio			-		1				1	
Robert L. Linkey		Х	Х		Х			Х	Х		Х		Х	Х	Х		Х
Patricia Smallmon		_		Х		Х						Х		-		Х	
Write-In										Х							
			Jud	ge of		Comr	nonw		Cour			1		-		-	
Chris Carpenter		Х			Х			Х		Х		Х	Х		Х	Х	Х
Eugene Ruff			Х	Х		Х					Х			Х			
Write-In									Х								
			Judg	e of t	he C	ourt	of Co	mmoi	n Plea	as							
Mary L. Daniel		Х										U	Х	Х		Х	Х
Jack "Duke"		Х	Х	Х	Х					Х	Х	U	Х	Х		Х	Х
Brodisky																	
Joanne Schollzert			Х	Х		Х		Х	Х		U				Х		
Kerry Jones					Х	Х		Х							Х		
Write-In			1			1	Р		Х	Х		1	1	1		1	1
Write-In			1			1	U			1		1	1	1		1	1
			•	Co	untv	Chief	Exec	utive			•	•	•	•		•	
Norman Powers			Х		X	X		X		Х		Х	Х		Х		Х
Micheal	+ +	Х		Х					Х	1	Х			Х		Х	
Santarcangelo			1							1		1	1				1
Write-in	+ +		1							+		1	<u> </u>			1	1
		_	1	<u> </u>	L	tv Cr	ontrol	ler	l	1	I	1	1	1	1	1	1
				U	X			X	1	r		Х	Х	Х		Х	Х
Paul M Bortol		11					1	^		1		^	^	^		^	^
		U		0	^											1	
Lincoln		U	v	0	~				v		V			+	V		1
Lincoln Donna Berke		U	X						Х	v	Х				Х		
Lincoln		U	x	0					Х	Х	Х				Х		
Lincoln Donna Berke Write-In		U	X			rict A	ttorne		X	X					Х		
Lincoln Donna Berke Write-In Franklin Margo				X	Dist		ttorne	ey X		X	X			X		X	X
Lincoln Donna Berke Write-In Franklin Margo Donald Hensley		U X	x			rict A	ttorne		X X			X	x	X	X	X	X
Lincoln Donna Berke Write-In Franklin Margo				X	Dist	Х		X	X	X		X	X	X		X	X
Lincoln Donna Berke Write-In Franklin Margo Donald Hensley Write-In				X	Dist	Х	ttorne or Re	X	X			X	X	X		X	X
Lincoln Donna Berke Write-In Franklin Margo Donald Hensley				X	Dist	Х		X	X			X	x	X X		x	X X X
Franklin Margo Donald Hensley Write-In		x	X	X	Distr X ool D	X		gion	X	X	U				X		
Lincoln Donna Berke Service In Se			X	X Sch X	Distr X ool D	X Direct		X gion	X 6	X	U	U	X		X U	X	X

							C	omm	issio	ner Se	eat 3									
William Malicki						Х	Х	Х				Х	Х		Х		Х	U	Х	
Arnold Wells					Х				Х					Х		Х				Х
Write-in											Х									
							Sta	atewi	de R	eferer	ndum									
Yes	Х				Х			Х		U		Х			Х				U	Х
No		Х	Х	Х		Х	Х		Х		Х		Х	Х		Х	Х	Х		
							Rete	ntion	of To	ony G	rzani	ch								
Yes	Х	Х	Х		Х	Х		Х		X	Х	Х		Х	Х		Х		Х	Х
No				Х			Х		Х				Х			Х		Х		
							Rete	ntior	of D	ebbie	Marl	ks								
Yes		Х		Х		Х		Х		Х	Х	Х	Х						Х	Х
No	Х		Х	1	Х		Х		Х					Х	Х	Х	Х	Х		

#### **Test Results:**

Test Results.	
Due sin et 1.	
Precinct 1:	
Straight Party	2
Republican Democratic	3
	0
Green	0 2
Libertarian Undervote	12
Undervote	12
President/Vice President of the	he United States
James Collins	ic Office States
Arthur Remus	8
Calvin Marino	0
Keith Satterwhite	8
John P .Defazio	0
Louis Denn	0
June Perkins	0
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
Undervote	0
Representative in Congress D	District 5
Ben Baker	10
Barbara Barrett-Hicks	7
Write-In	2
Undervote	1
Chael ( ) (	-
Governor/Lieutenant Govern	lor
Joe Carlton	
Arnold Krill	12
Charles Jasen	
Kenneth Interlicchio	7
Robert Marsh	
Theodore Kopp	0
Write-In	1
Undervote	0
Representative in the Genera	
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
Judge of the Commonwealth (	Court
Chris Carpenter	8
Eugene Ruff	9
Write-In	3
Undervote	0
Judge of the Court of Commo	n Pleas
Mary L. Daniel	11
Jack "Duke" Brodisky	10
Joanne Scholzert	9
	7
Kerry jones	
Write-In	2
Undervote	1
County Chief Executive	
Norman Powers	8
Micheal Santarcangelo	9
Write-In	2
Undervote	2
Country Controller	
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
Childer vote	-
Commissioner Seat 1	
Stephen Harrick	12
	13
George Fisk	6
Write-In	1
Undervote	0
Statewide Referendum	
Yes	6
No	12
Undervote	2
Chael ( ote	-
<b>Retention of Tony Grzanich</b>	
Yes	11
No	8
Undervote	1
Defenden (D.11) M. 1	
Retention of Debbie Marks	
Yes	11
No	7
Undervote	2
Precinct 2a:	
Straight Party	
Republican	4
Democratic	1
- enformate	-

Green	0
Libertarian	2
Undervote	13
President/Vice President of	the United States
James Collins	
	12
Arthur Remus	13
Calvin Marino	
Keith Satterwhite	4
John P. Defazio	
Louis Denn	0
June Perkins	
David Heroux	2
Write-In	1
Undervote	0
United States Senator	
Colby Lincoln	12
Oscar Draper	5
Eric Sheely	2
Write-In	1
Undervote	0
Representative in Congress	District 5
Ben Baker	
	13
Barbara Barrett-Hicks	5
Write-In	1
Undervote	1
Governor/Lieutenant Gover	rnor
Joe Carlton	
Arnold Krill	13
Charles Jasen	
Kenneth Interlicchio	5
	5
Robert Marsh	
Theodore Kopp	0
Write-In	1
Undervote	1
Representative in the Gener	ral 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	
Judge of the Commonwealt	h Court
Chris Carpenter	
	13
Eugene Ruff	5
Write-In	1
Undervote	1
Judge of the Court of Com	
Mary L. Daniel	13
Jack "Duke" Brodisky	9
Joanne Scholzert	7
Kerry jones	6
Write-In	4
Undervote	1
County Chief Executive	12
Norman Powers	13
Micheal Santarcangelo	5
Write-In	1

Undervote	1
	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	17
Write-In	5
Undervote	3
Undervote	3
Commissioner Seat 2	
Steve West	11
Tetty Rogiers	6
Write-In	1
Undervote	2
Statewide Referendum	
Yes	6
No	12
Undervote	2
	-
<b>Retention of Tony Grzanich</b>	
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 th	e United States
James Collins	
Arthur Remus	10
Calvin Marino	••
Keith Satterwhite	7
John P. Defazio	
Louis Denn	2
June Perkins	2
David Heroux	1
Write-In	0
Undervote	0
United States Senator	
Colby Lincoln	11
Oscar Draper	6
Eric Sheely	1
Write-In	1
Undervote	1

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

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

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

Undervote	47
President/Vice President of th	e United States
James Collins	
Arthur Remus	44
Calvin Marino	
Keith Satterwhite	22
John P. Defazio	
Louis Denn	4
June Perkins	-
David Heroux	7
Write-In	2 1
Undervote	1
United States Senator	
Colby Lincoln	42
Oscar Draper	27
Eric Sheely	6
Write-In	4
Undervote	1
Donnogontativo in Congress D	intuint E
Representative in Congress D Ben Baker	31
Barbara Barrett-Hicks	22
Write-In	4
Undervote	3
Representative in Congress D	istrict 10
Lois Koss	14
William Sullivan	4
Write-In	1
Undervote	1
Governor/Lieutenant Govern	or
Joe Carlton	
Arnold Krill	44
Charles Jasen	
Kenneth Interlicchio	25
Robert Marsh	
Theodore Kopp	5
Write-In	5
Undervote	1
Representative in the General	Accombly District 83
Harry Rider	19
R.J. Abbott	19
Derek Carlson	4
Write-In	3
Undervote	0
Representative in the General	
Peter Valle	22
Neil Carey	15
Write-In	2
Undervote	1
Judge of Superior Court	
Robert L. Linkey	44
Patricia Smallmon	30
Write-In	4
Undervote	2
Judge of the Commonwealth	
Chris Carpenter	43
Eugene Ruff	28
Write-In	7
Undervote	2
Judge of the Court of Court	n Diag
Judge of the Court of Commo Mary L.Daniel	42
Jack "Duke" Brodisky	42 40
Jack Duke BIOUISKy	+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
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
Chidervote	15
Commissioner Seat 1	
Stephen Harrick	13
George Fisk Write-In	6
	$\begin{array}{c} 1\\ 0\end{array}$
Undervote	0
Commissioner Seat 2	
	24
Steve West	24
Tetty Rogiers	12
Write-In	2
Undervote	2
G	
Commissioner Seat 3	10
William Malicki	12
Arnold Wells	6
Write-In	1
Undervote	1
Statewide Referendum	07
Yes	27
No	47
Undervote	6
Retention of Tony Grzanich	
Yes	54
No	22
Undervote	4
Retention of Debbie Marks	
Yes	49
No	27
Undervote	4

# **APPENDIX B - TEST CASES**

	<b>P.S. § 3031.7</b>	B1.7(1) Voter Secrecy (ADA Voter) (1) Provides for voting in absolute secrecy and prevents any person from
Requirement: seein		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.
selections inp observed dur vote has been		can be described for normal election day operation by Pennsylvania procedures and or the device manufacturer for an ADA voter. A marker is placed 12 feet (measured from the lowest point of the devices voting surface to the floor) directly behind the center of the voting device. From that marker, another marker is placed 12 fee to the right side and the left side. The side distance observation points should be approximately 17 feet. See Step 1000 for a layou diagram. The ADA voter will be positioned in the center of the tabulation device with a site line of 4 feet. See Step 1001.
Test Equipm		Standard 15+ foot tape measure
obser		Two roles are required for this test case. An ADA Voter role and ar 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	S:	An election is loaded on the device and the polls are open, ready for voting.
Step 1000		Description
	Layout Diagram: Verify all measurements.	Top View DRE 12' 12' 12'
		ent is 12 feet and the side distance observation points are approximately 17 feet.
	Actual: Measured 12 feet.	
1001	ADA Voter Position:	Side View Voter line of sight
		←

	Verify all measurements.
	<i>Expected:</i> Center measurement is 12 feet and the side distance observation points are approximately 17 feet with a voter line of sight at 48 inches.
	Actual: Measured line of site at 48 inches.
1010	Observer Role - Activate a ballot for ADA voting.
	Expected: Ballot is presented and vote selections can be input.
	Actual: Ballot is presented and vote selections can be input.
1020	ADA Voter Role - Select the candidate corresponding to the upper most left hand position of the ballot presentation.
	Observer Role - Attempt to ascertain visually, the voters input from the right most position, the center position, and the left most position
	ADA Voters Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the upper most left hand position. All other selections are to be under voted.
	<i>Expected:</i> The Observer cannot determine the Voter's input selections.
	Actual: Observer reported observations could be made from observation point 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.
	<i>Expected:</i> The Observer cannot determine the Voter's input selections.
	Actual: Observer reported observations could be made from observation point 2 and point 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.			
	<i>Expected:</i> The Observer cannot determine the Voter's input selections.			
	Actual: Observer reported no observations.			
1050				
1050	ADA Voter Role - Select the candidate corresponding to the lower most right hand position of the ballot presentation.			
	Observer Role Attempt to ascertain, both audibly and visually, the voters input from the right most position, the center position, and the left most position			
	ADA Voters Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the lower most right hand position. All other selections are to be under voted.			
	<i>Expected:</i> The Observer cannot determine the Voter's input selections.			
	Actual: Observer reported observations could be made from observation point 2 and point 3.			
	• Evaluation of the Test Results: The observer must not be able to determine the voter's om any observation position or any voter selection surface position.			

Test Case Id	entifier: 01 – 25 P.S. § 303	1.7(1) Voter Secrecy (Regular Voter)	
		(1) Provides for voting in absolute secrecy and prevents any person from	
Requirement:		seeing or knowing for whom any voter, except one who has received or is	
		receiving assistance as prescribed by law, has voted or is voting.	
Test Object	ive: To determine if a v	voters <b>Test Configuration:</b> Precinct tabulation device configured as	
	n be observed during the a		
voting, or one	ce a vote has been cast.	procedures and or the device manufacturer. A marker is placed 12	
		feet (measured from the lowest point of the devices voting surface to the floor) directly behind the center of the voting device. From	
		that marker, another marker is placed 12 feet to the right side and	
		the left side. The side distance observation points should be	
		approximately 17 feet. See step 1000 for a layout diagram.	
Test Equipm		Standard 15+ foot tape measure	
Special Proc	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	•	An election is loaded on the device and the polls are open, ready for	
Assumptions		voting.	
Step		Description	
1000			
	Layout Diagram:	Top View	
		DRE	
		< 12′>	
	Verify all measurements.		
	<i>Expected:</i> Center measurement is 12 feet and the side distance observation points are approximately 17 feet.		
	Actual: Measured 12 feet.		
1010			
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			
1020	Voter Role - Select the candid	late in the upper 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 upper most left hand position. All other selections are to be under voted.		

	<i>Expected:</i> The Observer cannot determine the Voter's input selections.			
	Actual: Observer reported 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.			
	<i>Expected:</i> The Observer cannot determine the Voter's input selections.			
	Actual: Observer reported observations could be made from observation point 2 and point 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.			
	<i>Expected:</i> The Observer cannot determine the Voter's input selections.			
	Actual: Observer reported observations could be made from observation point 2 and 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 no observations.			
	<b>Evaluation of the Test Results:</b> The observer must not be able to determine the voter's om any observation position or any voter selection surface position.			

Test Case Io	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) P	rovides facilities for voting for such candidates as may be nominated
Requirement:		and i	upon such questions as may be submitted.
<b>Test Objective:</b> To determine if a vote the ability to select candidates and question			<b>Test Configuration:</b> Precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.
Test Equipr		None	
•	cedural Requirements:	None	
Assumption	s:	An e votin	
Step			Description
1000	Activate a ballot for voting		
	<i>Expected:</i> The ballot is presen	nted and	d vote selections can be input.
	Actual: The ballot was present	nted.	
1010	Select the first candidate in th	ne first j	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 f	or Jame	es Collins.
1020	Use the designated method to advance the ballot to the first "N of M" contest. Select the first "N" candidates in the contest. (e.g. in a Vote for Two contest the first two candidates would be selected).		
	<i>Expected:</i> The precinct tabulation device advances to the first "N of M" contest. Once selected the precinct tabulation device displays or provides an indication of a vote for the first "N" candidates in the first "N of M" contest.		
	Actual: Selections were made for Mary L. Daniel and Jack "Duke" Brodisky.		
1030	Use the designated method to contest.	advano	ce the ballot to the first "Question" contest. Select the "Yes" option in the
			vice advances to the first "Question" contest. Once selected the precinct as an indication of a vote selection for the "Yes" option in the first
	Actual: Selection was made of	of "Yes'	,
1040	Use the designated method to contest.	advano	ce the ballot to the second "Question" contest. Select the "No" option in the
			vice advances to the second "Question" contest. Once selected the precinct es an indication of a vote selection for the "No" option in the second

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

Test Case Id	entifier: 03 – 25 P.S. § 3031	.7(3)	Straight Party and Pennsylvania Method
PA ST 25 P	P.S. § 3031.7	(3) P	ermits each voter, at other than primary elections, to vote a straight
Requiremen	-	politi	cal party ticket by one mark or act and, by one mark or act, to vote
-			Il the candidates of one political party for presidential electors and,
			e mark or act, to vote for all the candidates of one political party for
			office to be voted for, and every such mark or act shall be
			alent to and shall be counted as a vote for every candidate of the
			cal party so marked including its candidates for presidential
			ors, except with respect to those offices as to which the voter has
		0	tered a vote for individual candidates of the same or another
			cal party or political body, in which case the automatic tabulating
			ment shall credit the vote for that office only for the candidate
			idually so selected, notwithstanding the fact that the voter may not individually voted for the full number of candidates for that office
			hich he was entitled to vote.
Test Object	ive. To determine if the vo		<b>Test Configuration:</b> Precinct tabulation device configured as
<b>Test Objective:</b> To determine if the voting system supports straight party voting and the		-	described for normal election day operation by Pennsylvania
Pennsylvania		i the	procedures and/or the device manufacturer.
Test Equipm		None	*
· · ·		None	
Assumptions			lection is loaded on the device and the polls are open, ready for
•		votin	· · · ·
Step			Description
1000			
	Activate a ballot for voting.		
	Even este de The hellet is success	4 - J	l
	<i>Expected:</i> The ballot is presen	ted and	i vote selections can be input.
	Actual: The ballot was presen	ted	
	netuut. The bullet was presen	iteu.	
1010			
1010	Select the option for the first p	arty se	lection of the straight party.
	Expected: The precinct tabulat		vice displays or provides an indication of a vote selection for the first party
	selection in the straight party con		
	Actual: Republican was selec	eted.	
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.		
			evice 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 candid	lates 11	vere selected
	netuut. Thi Republical callan	aucs w	
1030			
2000	Use the designated method to	advanc	the through the remainder of the ballots advancing to the ballot review screen.
			view observing only the partisan contests associated with the first straight
			designated method to cast the voted ballot.
			-
	Expected: The precinct tabulat	tion de	vice displays or provides an indication of a vote selection for only the
	partisan contests associated wi	ith the	first straight party selection. After review the ballot is cast successfully.

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

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

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

Test Case Id	entifier: 04 – 25 P.S. § 303	1.7(4) Straight Party and Write-In				
	P.S. § 3031.7	(4) Permits each voter, at other than primary elections, to vote a ticket				
Requirements:		selected from the nominees of any and all political parties, from the				
Requiremen	•	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.				
Test Objecti	ve: To determine if the voti					
•	orts straight party voting and	<b>e</b>				
write-in.	its straight purify voting and	procedures and/or the device manufacturer.				
Test Equipn	nent:	None				
	edural Requirements:	None				
Assumptions:		An election is loaded on the device and the polls are open, ready for				
		voting.				
Step		Description				
1000						
1000	Activate a ballot for voting					
	<i>Expected</i> : The ballot is prese	<i>Expected:</i> The ballot is presented and vote selections can be input.				
	Lapotea. The buildt is presen	the and the selections can be input				
	Actual. The ballot was prese	nted				
	netuut. The ballot was prese	Actual: The ballot was presented.				
1010						
1010						
	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				
	selection in the straight party	election in the straight party contest.				
	Actual: Republican was select	ted.				
10.00						
1020						
	-	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				
	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.					
10.00						
1030						
	_	advance through the remainder of the ballot advancing to the ballot review screet				
		allot review observing only the partisan contests associated with the first straight				
	party selections are present.	Jse the designated method to cast the voted ballot.				
		tion device displays or provides an indication of the selection for only the partisa				
	contests associated with the f	rst straight party selection. After review the ballot is cast successfully.				
		een displayed the selections for all republican candidates and no selection for nor				
	partisan contests.					
1040						
	Activate a ballot for regular v	oting				
	<i>Expected:</i> The ballot is present	nted and vote selections can be input.				

	Actual: The ballot was presented.
1050	
1000	Select the option for the first party selection of the straight party.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection associated with the first party selection in the straight party contest.
	Actual: Republican was selected.
1060	
1000	Use the designated method to advance to the first partisan contest. Select the write-in option. Input John Doe as the write-in name.
	<i>Expected:</i> The precinct tabulation advances to the first partisan contest and allows the input of the "Write-In" candidate John Doe.
	Actual: John Doe was input as a write-in candidate for President of the United States.
1070	
	Use the designated method to advance to the ballot review screen. Observe the selections associated with the first straight party selection with the exception of the first partian contest. Use the designated method to cast the voted ballot.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection associated with the first party selection in the straight party contest with the exception of the first partisan contest which should indicate the write-in input of John Doe.
	<i>Actual:</i> Republican candidates in all partisan races were selected with the exception of John Doe as a write-in for President of the United States
1080	Activate a ballot for regular voting
	<i>Expected:</i> The ballot is presented and vote selections can be input.
	Actual: The ballot was presented.
1090	Select the option for the first party selection of the straight party.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection associated with the first party selection in the straight party contest.
	Actual: Republican was selected.
1100	Use the designated method to advance to the first "Question" contest. Select the "Yes" option. Attempt to over vote by selecting the "No" option. Observe the action of attempting to select the second option.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication.
	Actual: The device toggled.

1110				
	Repeat steps 1000- 1100 from above using an ADA input device.			
	Every set of Depresent 1000 - V			
	Expected: Repeat 1000X			
	Repeat 1010X Repeat 1020X			
	Repeat 1020X			
	Repeat 1050X			
	Repeat 1050X			
	Repeat 1050 Repeat 1060X			
	Repeat 1000 Repeat 1070X			
	Repeat 1070 Repeat 1080X			
	Repeat 1080X Repeat 1090X			
	Repeat 1100 _X			
	Actual: All steps were repeated using an audio session.			
1120				
	Close the polls and print the closed polls report tape.			
	Expected: The polls closed and a report is printed.			
	Expected. The poils 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. An selections were accurately reported on the results report.			
Criteria for	<b>Evaluation of the Test Results:</b> The intended selections input above are recorded, stored, and			
	put by the tester. The functionality of selecting a write-in candidate functions with a straight party			
selection.				

	P.S. § 3031.7					
system supp	<b>its:</b> <b>ive:</b> To determine if the voti orts the selection of a candid n candidate.		<b>Test Configuration:</b> (5) <i>Permits each voter to vote for any person</i> <i>and any office for whom and for which he is lawfully entitled to</i> <i>vote, whether or not the name of such person appears upon the</i> <i>ballot as a candidate for nomination or election.</i>			
Test Equipr	nent:	None				
	cedural Requirements:	None				
Assumption		An el votin	lection is loaded on the device and the polls are open, ready for g.			
Step			Description			
1000	Activate a ballot for voting.					
	<i>Expected:</i> The ballot is presented and vote selections can be input.					
	Actual: The ballot was presen	Actual: The ballot was presented.				
<b>1010</b> Select the option for the first candidate in the first partisan cont			te in the first partisan contest.			
		<i>Expected:</i> The precinct tabulation device displays or provides an indication of a vote selection for the first candidate selection in the first partian contest.				
	Actual: James Collins and An	thur Re	mus were selected for President of the United States.			
1020	Use the designated method to advance through the remainder of the ballot advancing to the ballot review screen. Observe the selection in the ballot review observing only the first candidate in the first partisan contest is selected. Use the designated method to cast the voted ballot.					
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of the selection for only the candidate selection in first partial contests. After review the ballot is cast successfully.					
	Actual: James Collins and A	rthur Re	emus were the only selection displayed.			
1030	Activate a ballot for voting.					
	<i>Expected:</i> The ballot is prese	nted and	d vote selections can be input.			
	Actual: The ballot was presen	nted.				
1040	Select the option for a write- Doe".	n candi	date in the first partisan contest. Use the designed method to input "John			
	<i>Expected:</i> The precinct tabula candidate.	ation de	vice displays or provides an indication of a vote selection for a write-in			
	Actual: John Doe was input f	or Presi	dent of the United States.			

1050	
1050	Use the designated method to advance through the remainder of the ballot advancing to the ballot review screen. Observe the selection in the ballot review observing only the write-in candidate in the first partisan contest is selected. Use the designated method to cast the voted ballot.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of the selection for only the write-in candidate "John Doe" in first 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. The results tape showed the Ballot Id and could be adjudicated.
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. <i>Expected:</i> 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	.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	-	shall preclude each voter from voting for more persons for any office than		
		he is entitled to vote for or upon any question more than once.		
Test Objective: To determine if the v				
	vs over voting on contests			
questions		procedures and/or the device manufacturer.		
Equipment: Special Proc	edural Requirements:	None		
Assumptions		An election is loaded on the device and the polls are open, ready for		
issumption		voting.		
Step		Description		
1000				
	Activate a ballot for voting.			
	<i>Expected:</i> The ballot is presen	nted and vote selections can be input.		
	A . (			
	Actual: The ballot was present	nied.		
1010				
1010	Select the first candidate in the first partisan "1 of 1" contest excluding a straight party contest.			
	Select the first candidate in th	e first partisan 1 of 1 contest excluding a straight party contest.		
	<i>Expected</i> : The precinct tabu	lation device displays or provides an indication of a vote selection for the first		
		"1 of 1" contest excluding a straight party contest.		
	1			
	Actual: James Collins and Arthur Remus were selected for President of the United States.			
1020				
	Attempt to select the second candidate in the first partisan "1 of 1" contest ensure the contest is the same contest as voted in step 1010. Observe the action of attempting to place a second vote			
	as voted in step 1010. Observe the action of attempting to place a second vote.			
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of an attempt to over vote. The			
	<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.			
	predict tabulation device might disallow the selection and not display any communication.			
	Actual: Calvin Marino and Keith Satterwhite were selected. The device toggled between the selections.			
	The device toggied between the selections.			
1030				
	Attempt to select the write-in	option. Observe the action of attempting to input a write-in.		
	Expected: The precinct tabulation device displays or provides an indication of an attempt to over vote. The			
	precinct tabulation device mig	ght disallow the selection and not display any communication.		
	Actual: The device toggled.			
	nemun. The device loggied.			
1040				
1040	Use the designated method to	advance the ballot to the first "N of M" contest. Select the first "N" candidates in		
	_	Two contest the first two candidates would be selected).		
		ation device advances to the first "N of M" contest. Once selected, the precinct		
		provides an indication of a vote for the first "N" candidates in the first "N of M"		
	contest.			
	Actual: Mary L. Daniel and	lack "Duke" Brodisky were selected.		
	Dunior und			

<ul> <li>Attempt to select the "N +1" candidate in the first "N of M" contest ensure the contest is the same c voted in step 1030. Observe the action of attempting to place an over vote.</li> <li><i>Expected:</i> The precinct tabulation device displays or provides an indication of an attempt to over vote.</li> </ul>						
<i>Expected</i> : The precipit tabulation device displays or provides an indication of an attempt to over $y$	ontest as					
precinct tabulation device might disallow the selection and not display any communication.	ote. The					
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" optic contest.	on in the					
<i>Expected:</i> The precinct tabulation device advances to the first "Question" contest. Once selected, the tabulation device displays or provides an indication of a vote for the "Yes" option in the first "Question"	-					
Actual: "Yes" was selected.						
<b>1070</b> Attempt to select the "No" option in the first "Question" contest ensure the contest is the same contest as step 1050. Observe the action of attempting to place an over vote.	voted in					
<i>Expected:</i> The precinct tabulation device displays or provides an indication of an attempt to over very precinct tabulation device might disallow the selection and not display any communication.	ote. The					
Actual: The device toggled between selections.						
<b>1080</b> Use the designated method to advance the "Ballot Review". Observe the "Ballot Review" to see if t selections are indicated. Use the designated method to cast the voted selections.	he above					
<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen. After review and bal successfully.	lot is cast					
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 1050X Repeat 1060X Repeat 1070X						
Repeat 1050X         Repeat 1060X         Repeat 1070X         Repeat 1080X						

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

Test Case Id	entifier: 10 – 25 P.S. § 303	1.7(10) Ballot Review and Change (Regular ADA)	
PA ST 25 P.S. § 3031.7 Requirements:		(10) If it is of a type that registers the vote electronically, the voting system shall permit each voter to change his vote for any candidate or upon any question appearing on the official ballot up to the time that he takes the final step to register his vote and to have his vote computed. If it is of a type that uses paper ballots or ballot cards to register the vote and automatic tabulating equipment to compute such votes, the system	
		shall provide that a voter who spoils his ballot may obtain another ballot; any ballot thus returned shall be immediately cancelled and at the close of the polls shall be enclosed in an envelope marked "Spoiled" which shall be sealed and returned to the county board.	
<b>Test Objective:</b> To determine if the vertice allows the voter to review selections and change a vote selection be cast of the ballot.		the described for normal election day operation by Pennsylvania	
Test Equipm		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.		
	<i>Expected:</i> The ballot is preser	nted and vote selections can be input.	
	Actual: The ballot was presented.		
1010	Select the first candidate in the first all "1 of 1" contest excluding a straight party contest, the first "N" candidates in all "N of M" contests, and select the "Yes" option in all "Question" contests.		
	<i>Expected:</i> The precinct tabulation device allow for the navigation and the voting inputs to be selected as described above.		
	<i>Actual:</i> James Collins and Arthur Remus were selected for President of the United States. Mary L. Daniel and Jack "Duke' Brodisky were selected for Court of Common Pleas and "Yes" selected in all question contests.		
1020	Use the designated method to advance the "Ballot Review". Observe the "Ballot Review" to see if the above selections are indicated.		
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen. The vote selections can be verified.		
	Actual: The ballot review screen displayed the selection correctly.		
1030	Use the designated method to retract to the first partisan "1 of 1" contest excluding the straight party contest.		
	<i>Expected:</i> The precinct tabulation device navigates to the first partisan "1 of 1" contest excluding the straight party contest.		
	Actual: Navigated to Presiden	nt of the United States.	

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

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

Test Case I	<b>dentifier:</b> 16 – 25 P.S. 8 30	031.7	(16) Public Counter, No Reopening of Polls, Media Security with
	f Locks and Zero Proof and T		
· · · · ·			
PA ST 25 F Requiremen	2.S. § 3031.7 ts:	(16) and t autor or ca (i) A autor enter numb (ii) A eleme imme comp (iii) I votin of vo precl (iv)If excee all cl that i indice any o capa (v) It at th eleme count recor ballo cand votes	Reports. If the voting system is of a type which provides for the computation abulation of votes at the district level, the district component of the matic tabulating equipment shall include the following mechanisms pabilities: public counter, the register of which is visible from the outside of the matic tabulating equipment component into which the ballots are ed, which shall show during any period of operation the total per of ballots entered for computation and tabulation. . lock, or locks, by the use of which all operation of the tabulation ent of the automatic tabulating equipment is absolutely prevented diately after the polls are closed or where the tabulation of votes is soluted. 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 das 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 we beginning of its operation and each question and the public ter are all set to zero and with an element which generates a printed record ter are all set to zero and with an element which generates a printed record ter are all set to zero and with an element which generates a printed record ter are all set to zero and with an element which generates a printed record ter are all set to zero and with an element which generates a printed d at the finish of its
device has a	public counter, does not allow	V	described for normal election day operation by Pennsylvania
the reopening of the polls, and supplies a zero		ero	procedures and/or the device manufacturer. This includes all
proof and tall Test Equipn		None	security locks and seals.
		None	
Assumptions	-		election media is installed but the polls have not been opened.
Step		(	Description
1000	response is needed to print "Ze	ero Pro	have not been opened. Use the designated method to open polls. If a pof' report, select this option.
1010	Activate a ballot for voting. <i>Expected:</i> The ballot is present	ed and	d vote selections can be input.
	1		•

	Actual: The ballot was presented.
1020	Use the designated method to navigate to the straight party contest. Select the first selection in the straight party contest.
	<i>Expected:</i> The precinct tabulation device navigates to the first straight party contest, allows the input of the first selection, and indicts the first selections was input.
	Actual: Republican was selected.
1030	Use the designated method to advance the "Ballot Review". Observe all selections for the party associated with the selection for the first straight party selection are selected. Observe the public counter value being 0.
	<i>Expected:</i> The precinct tabulation device navigates to the "Ballot Review" screen. The public counter is visible and the value is 0.
	<i>Actual:</i> Selections for Republican candidates were displayed. The counters had to be observed before the ballot is presented.
10.40	
1040	Use the designated method to cast the voted selections. Observe the acknowledgement of "successful" ballot cast if provided, and the public counter incrementing by one.
	<i>Expected:</i> The precinct tabulation device successfully cast the ballot and the public counter is incremented. If the ballot was not cast successfully the test is halted.
	<i>Actual:</i> The ballot was cast successfully. The incrementing of the counter had to be observed after the ballot was cast.
1050	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed.
	Actual: The polls were closed and the results report printed.
10.50	
1060	Use the designated method to attempt to reopen the polls.
	Expected: The polls cannot be reopened.
	Actual: The polls could not be reopened.
1070	Place lock on precinct tabulation device per Pennsylvania Procedures to ensure all operation of the tabulation element is prevented.
	<i>Expected:</i> The precinct tabulation device can by secured so that all operation of the tabulation element is prevented.

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

Test Case Identifier: 04, 06, 08	8, 09, Permanent Physical Record, and Statistical Sample – 25 P.S. §§ 3031.7(4), (6),
(8), (9); 3031.1; and 3031.17 Sy	
PA ST 25 P.S. § 3031.7 Requirements:	<ul> <li>(4) Permits each voter, at other than primary elections, to vote a ticket selected from the nominees of any and all political parties, from the nominees of any and all political bodies, and from any persons whose names are not in nomination and do not appear upon the official ballot.</li> <li>(6) Permits each voter to vote for as many persons for any office as he is entitled to vote for and to vote for or against any question upon which he is entitled to vote and precludes each voter from voting or from having his vote tabulated for any candidate, or upon any question, for whom or upon which he is not entitled to vote.</li> <li>(8) Precludes each voter from voting or from having his vote tabulated more than once for any candidate for the same office or upon any question, except in districts and for offices where cumulative voting is authorized by law.</li> <li>(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.</li> </ul>
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:			
	ent documented procedures and configuration to ensure that the physical		
and access secure measures provide a dete be performed by a third-party expert.	rmined level of security. Depending on the scope of this project this may		
Test Configuration:			
	ould be for a polling place with all security precautions in place.		
Test Method:			
The method for testing these requirements	is defined as follows:		
	e physical and access controls and procedures in place for the storage of by evaluating the system to ensure that all access areas and seals and/or nal access. The tester will:		
• check all seal and/or locks and att	empt to open the system		
• verify that the ballot storage device any seals and/or locks	e is secure by attempting to insert and retrieve ballots without removing		
• verify that any needed supplies ca internal components of the voting	n be accessed by the poll worker without allowing access to the ballots or system		
• verify that the system counter can	not be reset by any unauthorized person at any unauthorized point		
• exercise verification of password	security management		
Criteria for Evaluation of the Test R All intended access controls are in place			
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>Report No. 48619-07 Inspection, Test, and Evaluation of the AccuVote TSx (AVTSx)</u> DRE Voting Machine with Accuview Printer Module (AVPM), Dated April 13, 2005\_\_\_\_

**Document II** – <u>Functional Qualification Testing of the Diebold Election Systems VCProgrammer and</u> Key Card Tool (BallotStation Firmware Release 4.6.1) Test Report No. 48619-10, Dated August 4, 2005

**Document III** – <u>Change Release Report of the Diebold Election Systems AccuVote-TSx DRE Voting</u> <u>Machine with Accuview Printer Module (Firmware Release 4.6.4) Test Report No. 52501-01, Dated</u> <u>November 14, 2005</u>

Document IV - Software Functional Test Report Diebold Assure 1.1, Rev 2.0 Dated March 9, 2007

**Document V** – <u>Memo dated December 07, 2005 from CIBER to Don Vopalensky Subject:</u> Status of <u>Testing GEMS 1-18-25</u>

# 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>Report No. 48619-07 Inspection, Test, and Evaluation of the AccuVote</u> <u>TSx (AVTSx) DRE Voting Machine with Accuview Printer Module (AVPM), Dated April 13, 2005</u>\_\_\_\_\_

Report Title, Version and Date – <u>Functional Qualification Testing of the Diebold Election Systems</u> VCProgrammer and Key Card Tool (BallotStation Firmware Release 4.6.1) Test Report No. 48619-10, Dated August 4, 2005 Report Title, Version and Date – <u>Change Release Report of the Diebold Election Systems AccuVote-TSx</u> <u>DRE Voting Machine with Accuview Printer Module (Firmware Release 4.6.4) Test Report No. 52501-</u> 01, Dated November 14, 2005

Report Title, Version and Date - <u>Software Functional Test Report Diebold Assure 1.1, Rev 2.0</u> Dated January 22, 2007

# 25 P.S. § 3031.7 Requirement -

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

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

Report Title – <u>Report No. 48619-07 Inspection, Test, and Evaluation of the AccuVote TSx (AVTSx)</u> DRE Voting Machine with Accuview Printer Module (AVPM), Dated April 13, 2005\_\_\_\_

Section - <u>all</u>

Page - <u>all</u>\_\_\_\_\_

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

### **Review of Accuracy Test**

Report Title - <u>Change Release Report of the Diebold Election Systems AccuVote-TSx DRE Voting</u> <u>Machine with Accuview Printer Module (Firmware Release 4.6.4) Test Report No. 52501-01, Dated</u> <u>November 14, 2005</u>

Section – Section 6.2 System Level Volume/Accuracy Tests

Page(s) - <u>10</u>\_\_\_\_\_

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 - <u>Change Release Report of the Diebold Election Systems AccuVote-TSx DRE Voting</u> <u>Machine with Accuview Printer Module (Firmware Release 4.6.4) Test Report No. 52501-01, Dated</u> <u>November 14, 2005</u>

Section – Section 6.2 System Level Volume/Accuracy Tests

Page(s) - <u>10</u>
Paragraphs – <u>all</u>
25 P.S. § 3031.7 Requirement -
(14) Is safely transportable.
Review of Hardware Environmental Tests
Report Title – <u>Not Available</u>
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 – <u>Not Available</u>
Section –
Page
Paragraphs

# APPENDIX C

# ADDITIONAL TEST CASES

### Test Case Identifier: SSL Certificate Update

The system under test will be set up and configured by ES&S. The election data used during this test will be the General Election from Appendix A. The main objectives of this test are as follow:

- Verify that the system can upload and download election data between the server and TSx touch screen units with the SSL authentication turned on.
- Verify that the system can detect matched and unmatched pairs of certificates.
- Check the performance of the system with dates pre and post July 03, 2013.
- Collect, describe and account for all error messages that might be generated by the installation of the certificates and following utilization of the system.

#### Procedure

The following actions shall be performed in the stated order, to test the installation of new SSL Authentication Certificates on GEMS Servers and the interaction of the servers with client TSx touch screen voting devices and any errors or malfunctions that may result. The following basic steps will provide a means to ensure that the requirements are met. The Examiner will document the exact test procedures at the time of the test to ensure repeatability.

#### **Objective 1**

Step 1: Record all Hash value for the certificates and .ins files prior to loading in the test environment.

Step 2: Set up the system as it would be used in the field with the provided SSL certificates

Step 3: Record the location and process for the installation of SSL certificates.

- Step 4: Verify that SSL authentication is active on the GEMS Server and the TSx touch screen device.
- Step 5: Attempt to transfer election data from the GEMS Server to touch screen device using SSL Authentication.

Step 6: Verify that process was successful and record any errors that occur.

#### **Objective 2**

Step 7: Combinations of old and new certificates will be tested to verify that the systems will detect mismatched pairs of certificates. The table below lists the combinations of certificates that will be tested. The date on each machine will be altered to ensure the expiration validation is passed.

GEMS Server	Touch screen Device
Old Certificate	Old Certificate
Old Certificate	New Certificate
New Certificate	Old Certificate
New Certificate	New Certificate

Step 8 Attempt to transfer election data from GEMS Server to the TSx touch screen device to ensure the system detects mismatched pairs, for each combination. Record results and note any errors that occur. Step 9: Install new SSL Authentication Certificate on the GEMS Server and verify that the new certificate is properly installed, noting any errors that occur.

#### **Objective 3**

Step 10: Change the date and time on GEMS Server to a time prior to July 03, 2013 and note any errors that may occur.

Step 11: Change the date and time to a date after July 03, 2013, and record the results while noting any errors that occur.

Test Case Identifie	er: Cardwriter Functional Ve	erification (General Election)	
		The Express Poll 5000 card writing functionality must be able to program voter	
		access card media with the proper keys to allow for ballot styles based on	
		geographical subdivisions to properly be retrieved and presented to a voter in a	
		General Election	
Test Objective: T	o determine if the card w		
	Express Poll 5000 can pro		
write smart cards fo	r voter access for one time u	1	
		"Pennsylvania Certification General Election."	
<b>Test Equipment:</b>		Express Poll 5000, 10 voter access cards, TSx units	
Special Procedura	l Requirements:	None	
Assumptions:		None	
Step		Description	
1000			
	From the Express Poll unit en	ncode two voter access cards for each precinct in the General Election.	
	Expected: The voter access ca	ards can be programmed.	
	Actual: Eight voter access ca	ards were created.	
1010			
1010	Insert the first Precinct 1 voter access card into the TSx.		
	finsert the first recenter r vote	ci access card into the 15x.	
	Expected: The TSx accepts the voter access card and displays the ballet style of President 1		
	<i>Expected:</i> The TSx accepts the voter access card and displays the ballot style of Precinct 1.		
	Actual: TSx accepted the card and displayed the ballot style for Precinct 1.		
	Terman. Tox accepted the card and displayed the barlot style for Treenlet 1.		
1020			
1020	Use the designated method to	to advance the through the ballot. Observe the contests and candidates for Precinct 1 ballot	
	style are displayed	o advance the through the barlot. Observe the concests and candidates for Freenet 1 barlot	
	style are displayed		
	Frnected: All contests and ca	andidates are accurately displayed.	
	Expected. The contests and et	and dates are accurately displayed.	
	Actual: All contests and cand	didates were displayed	
		aldues were displayed.	
1030			
1030	Use the designated method to	o navigate to the first contest and select the first candidate.	
		G	
	<i>Expected</i> : The TSx navigates	s to the first contest and the selection for the first candidate is input.	
	in the loss mutigates		
	Actual: James Collins and Arthur Remus were selected.		
	valies conins and fi		
1040			
1040	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections		
	_	hated method to cast the voted selections.	
	are maleated. Use the design	and memory to cust the roted beleficies.	

	<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.
1050	
	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	<i>Expected:</i> The TSx should give an indication that the voter access card has been used.
	Actual: The message "This voter card is already voted" is displayed.
1060	
1000	Insert the second Precinct 1 voter access card into the TSx.
	<i>Expected:</i> The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual: TSx accepted the card and displayed the ballot style for Precinct 1.
1070	
	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	<i>Expected:</i> Every candidate can be input as described.
	Actual: All candidates were selected.
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: All selections were displayed and the ballot was cast.
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected: Repeat 1010 X
	Repeat 1020X
	Repeat 1030X Repeat 1040X
	Repeat 1040X
	Repeat 1070X
	Repeat 1080X

	Actual: All steps were repeated successfully.	
1080	Close the polls and print the closed polls report tape.	
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i> 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.	
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above.	
	Actual: The results report contains the expected totals.	
<b>Criteria for Evaluation of the Test Results:</b> The intended selections input above are recorded, stored, and reported as input by the tester. The voter access cards are accepted and display the proper ballot style and cannot be reused.		

Test Case Identifier: Cardwriter Functional Verification (Closed Primary Election)				
Functional Requ	irements: Ti	he Express Poll 5000 card writing functionality must be able to program voter		
-		access card media with the proper keys to allow for ballot styles based on		
		eographical subdivisions and party affiliation to properly be retrieved and		
	pr	resented to a voter in a Closed Primary Election		
Test Objective: T	o determine if the card writ	er Test Configuration: Precinct tabulation device configured as described		
functionality of the	Express Poll 5000 can proper	ly for normal election day operation by Pennsylvania procedures and/or the		
write smart cards for voter access for one time u		device manufacturer. A TSx unit will be loaded with all precincts and		
		parties from the "Pennsylvania Certification Closed Primary Election."		
Test Equipment:	E	xpress Poll 5000, 10 voter access cards, TSx units		
Special Procedural Requirements:		one		
Assumptions:	N	one		
Step		Description		
1000				
	From the Express Poll unit encod	le one voter access cards for each party and each precinct in the Closed Primary Election.		
	Expected: The voter access cards	can be programmed.		
	Actual: Six voter access cards we	ere created.		
1010				
1010	Insert the Domogratic voter acces	ss card for Precinct 1 into the TSx.		
	lisen the Democratic voter acces	ss card for Precinct 1 into the TSX.		
	<i>Expected:</i> The TSx accepts the v	oter access card and displays the ballot style for Democratic party for Precinct 1.		
	Actual: The TSX accepted the vo	oter access card and display the Democratic ballot.		
10.00				
1020	<b>T A A A A A A A</b>			
	-	vance through the ballot. Observe the contests and candidates for Democratic party for		
	Precinct 1 ballot style are display	ed		
	Expected: All contests and candi	idates are accurately displayed.		
	Actual: All contests and candidat	es are accurately displayed.		
1030				
	Use the designated method to nav	vigate to the first contest and select the first candidate.		
	<i>Expected:</i> The TSx navigates to t	the first contest and the selection for the first candidate is input.		
	Actual: Barry Josey was selected	1.		
1040				
	-	vance the "Ballot Review." Observe the "Ballot Review" to see if the above selections		
	are indicated. Use the designated	l method to cast the voted selections.		
	<i>Expected:</i> The precinct tabulat	ion device advances to the "Ballot Review" screen. After review and ballot is cast		

	successfully.
	Actual: The selection for Barry Joseey was selected.
1050	Remove the ejected voter access card or use the designated method to remove the used voter access card. Reinsert the used voter access card.
	<i>Expected:</i> The TSx should give an indication that the voter access card has been used.
	Actual: The message "This voter card is already voted" is displayed.
1060	Insert the Republican voter access card for Precinct 1 voter access card into the TSx.
	Expected: The TSx accepts the voter access card and displays the ballot style of Precinct 1.
	Actual: The TSx accepted the voter access card and the Republican ballot for Precinct 1 was displayed.
1070	
	Select the first candidate in every "1 of 1" race, the first N in every "N of M" race, and "Yes" for every Referendum race.
	<i>Expected:</i> Every candidate can be input as described.
	Actual: All candidates were input.
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: Selection were displayed correctly and the ballot was cast successfully.
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct.
	Expected:       Repeat 1010X         Repeat 1020X       Repeat 1030X         Repeat 1040X       Repeat 1060X         Repeat 1070X       Repeat 1080X
	Actual: All steps were repeated successfully.

1080	Close the polls and print the closed polls report tape. <i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i> The polls were closed and the results reports were produced.	
1090	Review the closed polls report to ensure all selections input above are recorded and reported correctly. <i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i> The results report was accurate.	
<b>Criteria for Evaluation of the Test Results:</b> The intended selections input above are recorded, stored, and reported as input by the tester. The voter access cards are accepted and display the proper ballot style and cannot be reused.		