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

TABLE OF CONTENTS

1.0 INTRODUCTION ……1

1.1 References ……..1
1.2 Terms and Abbreviations ……..1
1.3 Background ……2

2.0 TEST ITEMS ……..2

2.1 Software ……..2
2.2 Hardware ……3
2.3 Peripherals ……...3
2.4 Test Support Equipment/Materials …….....3

3.0 TEST MATERIALS ……4

3.1 Technical Data Package ……...4
3.2 Third Party Test Results ……...4
3.3 Previous Test Results ……...5

4.0 TEST SPECIFICATIONS...……5

5.0 TEST PROCEDURES ……...6

6.0 TEST DATA ……7

6.1 Data Recording ……...8
6.2 Data Evaluation…..……...8

APPENDIX A ELECTION DEFINITIONS ……9

APPENDIX B TEST CASES ……...60

APPENDIX C ADDITIONAL TEST CASES……92

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.

1.1 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.*

1.2 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 re-examination

"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

1.3 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 *Cardwriter* *PCMcard.dll*	1.1.5 *1.1.4.0* *N/A*	TBD

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 Name	Product Description	Revision Number	Description
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 device. The Department will also require manufacturer to configure the precinct tabulation devices as they would be in the precinct on Election Day, including seals and locks. The manufacturer must be prepared to print pre-election reports, precinct results reports, audit logs, and post-election reports.

3.0 TEST MATERIALS

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

3.1 Technical Data Package

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

Table 3.1 Documentation

Document Name	Revision	Issue Date
AccuVote-TSx 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

3.2 Third Party Test Reports

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

Table 3.2 Third Party Test Reports

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

3.3 Previous Test Results

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

Table 3.3 Previous Test Results

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

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, which expired in 2009, used for communication between the GEMS Server and the TSx units. 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 determine 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)

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 James Collins Alexander P. Bicket Carol Koethen Write-In			**President of the United States** Vote for One Barry Josey Calvin Marino Write-In		
United States Senator Vote for One Bob Ford *Allegheny County* Colby Lincoln *Delaware County* Write-In			**United States Senator** Vote for One Oscar Draper *Cumberland County* Carter McGaw *Philadelphia County* Write-In		
Representative in Congress **5th District** Vote for One Ben Baker *Allegheny County*		**Representative in Congress** **10th District** Vote for One Cheryl Simon	**Representative in Congress** **5th District** Vote for One Barbara Barret Hicks *Montgomery County*		**Representative in Congress** **10th District** Vote for One William Sullivan

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

Elizabeth Piazza Write-In Write-In Write-In	Robert Rocco *(M) Committed to Calvin Marino* 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 Richard Maxian *Philadelphia County* Marjorie Hall *Delaware County* Robert L. Linkey *Bucks County* Write-In	**Judge of the Superior Court** Vote for One Linda Gapp *Cumberland County* Patricia Smallmon *Allegheny County* Write-In
Judge of the Commonwealth Court Vote for One Chris Carpenter *Montgomery County* Write-In	**Judge of the Commonwealth Court** Vote for One Eugene Ruff *Washington County* Lewis Tese *Luzerne County* Write-In
Judge of the Court of Common Pleas Vote for Not More Than Two Mary L. Daniel *Armstrong* John Roy *Clinton* Jack “Duke” Brodisky *McNett* Jon Young *Muncy* Vic Stabile *Gamble* Write-In Write-In	**Judge of the Court of Common Pleas** Vote for Not More Than Two Joanne Shollzert *Williamsport* Kerry Jones *Williamsport* Steven Miller *Lewis* Shirley Henning *Mill Creek* Write-In Write-In
County Chief Executive	**County Chief Executive**

Four Year Term Vote for One Norman Powers *Williamsport* Sandra Reilly *McNett* Write-In	Four Year Term Vote for One Micheal Santarcangelo *Fairfield* Charles Place *Gamble* Write-In
School Director **Region 6** Four Year Term Vote for Not More Than Two Gerald Danson Greg Ortiz Shlomo Archibald Delores DeVan Write-In Write-In	**School Director** **Region 6** Four Year Term Vote for Not More Than Two Douglas Stone Gerald Danson Greg Ortiz Shlomo Archibald Delores DeVan Write-In Write-In

Commissioner **Seat 1** Four Year Term Vote for One Stephen Harrick Write-In	**Commissioner** **Seat 2** Four Year Term Vote for One Steve West Write-In	**Commissioner** **Seat 3** Four Year Term Vote for One William Malicki Gary Klemann Write-In	**Commissioner** **Seat 1** Four Year Term Vote for One George Fisk Write-In	**Commissioner** **Seat 2** Four Year Term Vote for One Tetty Rogiers Write-In	**Commissioner** **Seat 3** Four Year Term Vote for One Arnold Wells Write-In

Referendum A
Bond Issue

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

Yes

No

Spanish

Distrito electoral 1 **REP**	**Distrito electoral 2** **REP**	**Distrito electoral 3** **REP**	**Distrito electoral 1** **DEM**	**Distrito electoral 2** **DEM**	**Distrito electoral 3** **DEM**
Presidente de los Estados Unidos Vote por uno James Collins Alexander P. Bicket Carol Koethen			**Presidente de los Estados Unidos** Vote por uno Barry Josey Calvin Marino Por escrito		

Por escrito

Senador de los Estados Unidos
Vote por uno

Bob Ford
Condado de Allegheny

Colby Lincoln
Condado de Delaware

Por escrito

Senador de los Estados Unidos
Vote por uno

Oscar Draper
Condado de Cumberland

Carter McGaw
Condado de Filadelfia

Por escrito

Representante en el Congreso
5° Distrito
Vote por uno

Ben Baker
Condado de Allegheny

Por escrito

Representante en el Congreso
10.° Distrito
Vote por uno

Cheryl Simon
Condado de York

Lois Koss
Condado de Erie

Por escrito

Representante en el Congreso
5° Distrito
Vote por uno

Barbara Barret Hicks
Condado de Montgomery

Clinton Testo
Condado Centre

Por escrito

Representante en el Congreso
10.° Distrito
Vote por uno

William Sullivan
Condado de Butler

Por escrito

Gobernador
Vote por uno

Dean Lindsey
Condado de Allegheny

Don Etter
Condado de Allegheny

Joe Carlton
Condado de Washington

Edwin Lewis
Condado de Lancaster

Samuel Lawton
Condado de Bucks.

Por escrito

Gobernador
Vote por uno

Charles Jasen
Condado de Montgomery

Shirley Henning
Condado de Luzerne

Por escrito

Vicegobergador
Vote por uno

Scott Montes
Condado de Berks

Saul Currier
Condado de Lehigh

Arnold Krill
Condado de Lycoming

Por escrito

Vicegobergador
Vote por uno

Sherman R. Bucher
Condado de Filadelfia

Richard V. Suits
Condado de Cambria

Tabathia Song
Condado de Allegheny

Kenneth Interlicchio
Condado de Filadelfia

Por escrito

Representante en la Asamblea General
83.° Distrito
Vote por uno

Representante en la Asamblea General
84.° Distrito

Representante en la Asamblea General
83.° Distrito
Vote por uno

Representante en la Asamblea General
84.° Distrito
Vote por uno

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

Mary L. Daniel *Armstrong* John Roy *Clinton* Jack “Duke” Brodisky *McNett* Jon Young *Muncy* Vic Stabile *Gamble* Por escrito Por escrito	Joanne Shollzert *Williamsport* Kerry Jones *Williamsport* Steven Miller *Lewis* Shirley Henning *Mill Creek* Por escrito Por escrito
Jefe principal del condado Término de cuatro años Vote por uno Norman Powers *Williamsport* Sandra Reilly *McNett* Por escrito	**Jefe principal del condado** Término de cuatro años Vote por uno Micheal Santarcangelo *Fairfield* Charles Place *Gamble* Por escrito
Director de la escuela **Región 6** Término de cuatro años No vote por más de dos Gerald Danson Greg Ortiz Shlomo Archibald Delores DeVan Por escrito Por escrito	**Director de la escuela** **Región 6** Término de cuatro años No vote por más de dos Douglas Stone Gerald Danson Greg Ortiz Shlomo Archibald Delores DeVan Por escrito Por escrito

Comisionado **Puesto 1** Término de cuatro años Vote por uno Stephen Harrick Por escrito	**Comisionado** **Puesto 2** Término de cuatro años Vote por uno Steve West Por escrito	**Comisionado** **Puesto 3** Término de cuatro años Vote por uno William Malicki Gary Klemann Por escrito	**Comisionado** **Puesto 1** Término de cuatro años Vote por uno George Fisk Por escrito	**Comisionado** **Puesto 2** Término de cuatro años Vote por uno Tetty Rogiers Por escrito	**Comisionado** **Puesto 3** Término de cuatro años Vote por uno Arnold Wells Por escrito

Referéndum a nivel estatal

Asunto del bono

Para promover y asegurar la preservación y mejoramiento del pasajero férreo esencial y servicios de carga para los habitantes del estado, ¿se

debe aprobar la sección dos del capítulo ciento dieciocho de las leyes de mil novecientos sesenticuatro, autorizando la creación de una deuda estatal en la cantidad de doscientos cincuenta millones de dólares para instalaciones de capital?

Sí

No

Voting Pattern:

Precinct 1 REP	B 1	B 2	B 3	B 4	B 5	B 6	B 7	B 8	B 9	B 10	B 11	B 12	B 13	B 14	B 15	B 16	B 17	B 18	B 19	B 20
President of the United States																				
James Collins	X				X	X		X		X		X		X		U	X	X		X
Alexander P. Bicket		X					X								X				X	
Carol Koethen			X						X		X									
Write-In				X									X							
United States Senator																				
Bob Ford			X				X		X				X		X				X	
Colby Lincoln	X	X		X	X			X		X	X	X		X		X		X		X
Write-In						X											X			
Representative in Congress 5th District																				
Ben Baker	X	X	X	X	U		X	X	X	X		X	X	X		X	X		X	X
Write-In						X					X				X			X		
Governor																				
Dean Lindsey				X			X				X		X			X				
Don Etter			X		X							X			X			X		
Joe Carlton	X					X			X	X				X			X			X
Edwin Lewis		X																	X	
Samuel Lawton								X												
Write-In																				
Lieutenant Governor																				
Scott Montes					X					X						X		U	X	
Saul Currier				X					X					X						X
Arnold Krill	X		X			X	X	X			X	X	X		X					
Write-In		X															X			
Representative in the General Assembly 83rd District																				
Harry Rider	X	X		X		X		X	X		X		X		X		X		X	X
Robert Tyrell			X				X			X		X		X		X				
Write-In					X\													X		
Presidential Nomination Delegation																				
Gloria Dillion	X	X		X		X		X	X	X	X		X		X	X		X	X	X
Heather Heidelbaugh		X			X					X		X			X	X			X	X
Herbert Devine		X	X	X			X	X	X	X		X	X	X	X	U			X	X
George A. Fisk	X				X								X					X		
Doris Shiddles			X						X			X								
Andre Ninia								X						X				X		
Brian Getz	X		X	X																
Chad Snow							X							X						
Diane Rubin							X													
Elizabeth Piazza					X															
Write-In						X											X			
Write-In						X											X			
Write-In																	X			
Judge of the Superior Court																				
Richard Maxian					X		X		U		X			X					X	
Marjorie Hall		X				X							X		X					X
Robert L. Linkey	X			X				X		X		X				X	X	X		
Write-In			X																	
Judge of the Commonwealth Court																				
Chris Carpenter	X	X	X	X	X	U	X	X	X	X		X	X	X	U	X	X	X	X	X
Write-In											X									
Judge of the Court of Common Pleas																				

Mary L. Daniel	X	X		X		X		X	X	X			X		X	X	U	X	X	
John Roy		X						U			X						U	X		
Jack "Duke" Brodisky	X		X	X	X		X		X	X			X	X		X			X	
Jon Young			X				U				X	X			X					X
Vic Stabile					X									X						X
Write-In						X						X								
Write-In																				
County Chief Executive																				
Norman Powers	X		X	X		X	X	X		X		X	X	U				X	X	X
Sandra Reilly		X			X				X		X				X	X				
Write-In																	X			
School Director Region 6																				
Gerald Danson	X		X	X		X		X			X			X	X	U	X		X	X
Greg Ortiz	X				X		X			X		X	X			U				
Shlomo Archibald		X	X	X	X		X	X	X	X	X		X		X		X		X	X
Delores DeVan		X				X			X			X		X				X		
Write-In																		X		
Write-In																				
Commissioner Seat 1																				
Stephen Harrick	U	X	X	X	X		X	X	X	X	X	X	X	U	X	X		X	X	X
Write-In						X											X			
Referendum A																				
Yes	U		X	X	X		X	X		X	X	X	X	U	X	U	X			X
No		X				X			X									X	X	

Precinct 1 DEM	**B 1**	**B 2**	**B 3**	**B 4**	**B 5**	**B 6**	**B 7**	**B 8**	**B 9**	**B 10**	**B 11**	**B 12**	**B 13**	**B 14**	**B 15**	**B 16**	**B 17**	**B 18**	**B 19**	**B 20**
President of the United States																				
Barry Josey	X	U				X					X		X				X		X	
Calvin Marino			X	X	X			X	X	X		X		X	X	X		X		X
Write-In							X													
United States Senator																				
Oscar Draper	X		X	X	X	X		X		X	X		X		X	X		X		X
Carter McGaw		X					X		X					X			X		X	
Write-In												X								
Representative in Congress 5th District																				
Barbara Barret Hicks	X	X	X		X		X		X		X	X		X	X	X		X		X
Clinton Testo				X				X		X			X				X		X	
Write-In						X														
Governor																				
Charles Jasen	X		X	X	X		X				X		X	X	X		X	X		X
Shirley Henning		X				X		X	X			X				X			X	
Write-In										X										
Lieutenant Governor																				
Sherman R. Bucher				X								X								X
Richard V. Suits							X						X					X		
Tabathia Song	X								X					X		X				
Kenneth Interlicchio		X	X		X	X		X			X				X		X		X	
Write-In										X										
Representative in the General Assembly 83rd District																				
R. J. Abbott	X	X		X		X		X		U		X	X	X		X		X	X	X
Peter F. Saxton			X		X				X		X				X		X			
Write-In							X													
Presidential Nomination Delegation																				
Vincent Seymour			U		X		X		X			X	X			X		U	X	X
Toni Hamilton	X	X	U	X		X		X			X		X	X			X	U		X
Sam Patel			U		X		X		X			X	X		X	X		U	X	X
Robert Rocco	X	X	U	X	U	X		X			X		X	X	X		X	U		X
Renee Cohn Jubelrier	X	X		X	U	X		X			X			X	X		X			
Morton Steele	X	U		X		X		X			X			X	X		X			

Mary Burke							X		X			X				X			X	
Nyda E. Hambin							X					X				X			X	
Write-In									X	X										
Write-In										X										
Write-In										X										
Write-In										X										
Judge of the Superior Court																				
Linda Gapp				X				X			X		U			X		X		X
Patricia Smallmon	X	X	X		X	X			X	X		X		X	X		X		X	
Write-In							X													
Judge of the Commonwealth Court																				
Eugene Ruff			X	X		X	X	X	X		X		X	X		U		X		X
Lewis Tese	X	X			X					X		X			X		X		X	
Write-In																				
Judge of the Court of Common Pleas																				
Joanne Shollzert	X		X	X	X	X		X		X		X		X	X		X	U		X
Kerry Jones	X	X		X	X		X	X	X		X	X		X		X	X	U	X	
Steven Miller		X				X			X		U		X		X					X
Shirley Henning			X				X						X			X			X	
Write-In										X										
Write-In																				
County Chief Executive																				
Micheal Santarcangelo	X		X	X	X		X	X	X		X		X		X	X		X		X
Charles Place		X				X				X		X		X			X		X	
Write-In																				
School Director Region 6																				
Douglas Stone		X		X					X			X		X			X	X		
Gerald Danson	X		X	X			X	X	X	X	X		X		X	X		X		X
Greg Ortiz		X			X					X				X			X		X	
Shlomo Archibald	X		X		X	X	X				X		X		X	X			X	X
Delores DeVan						X		X				X								
Write-In																				
Write-In																				
Commissioner Seat 1																				
George Fisk	X	X	X	X	X	X	X	X	X	X	X	X	X	U	X	X	X	X	X	X
Write-In																				
Referendum A																				
Yes	X		X	X	X		X	U			U	X	X	X		X	X		X	X
No		X				X			X	X					X			X		

Precinct 2 REP	**B 1**	**B 2**	**B 3**	**B 4**	**B 5**	**B 6**	**B 7**	**B 8**	**B 9**	**B 10**	**B 11**	**B 12**	**B 13**	**B 14**	**B 15**	**B 16**	**B 17**	**B 18**	**B 19**	**B 20**
President of the United States																				
James Collins	X	X			X		X		X		X	X	X		X	X		X	U	
Alexander P. Bicket			X			X								X						X
Carol Koethen				X				X									X			
Write-In										X										
United States Senator																				
Bob Ford		X						X		X	X					X		X		X
Colby Lincoln	X		X		X	X	X		X			X	X	X	X		X		X	
Write-In				X																
Representative in Congress 5th District																				
Ben Baker	X	U	U		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
Write-In				X		X														
Governor																				
Dean Lindsey				X			X				X		X			X				
Don Etter			X		X							X			X			X		
Joe Carlton	X					X			X	X				X			X			X
Edwin Lewis		X																	X	
Samuel Lawton								X												
Write-In																				
Lieutenant Governor																				
Scott Montes	X							X			X							X		

Saul Currier		X					X			X				X			X			
Arnold Krill			X	X	X				X				X		X	X			X	X
Write-In						X						X								
Representative in the General Assembly 83rd District																				
Harry Rider	X	X	X		X	X		X		X	X		X	X		X	X	X		
Robert Tyrell				X			X		X			X			X				X	
Write-In																				X
Presidential Nomination Delegation																				
Gloria Dillion	X	X	X				X	X		X	U		X	X		X	X		X	
Heather Heidelbaugh	X		X							X	U		X		X	X		X	X	
Herbert Devine	X			X	X		X	U		X	U			X			X		X	
George A. Fisk		X						U				X								X
Doris Shiddles		X			X												X			X
Andre Ninia			X									X						X		X
Brian Getz				X	X								X	X		X				
Chad Snow				X		X						X								
Diane Rubin						X			X						X					
Elizabeth Piazza						X	X								X			X		
Write-In									X											
Write-In									X											
Write-In																				
Judge of the Superior Court																				
Richard Maxian				X						X			X		X			X		
Marjorie Hall		X				X					X			X					X	
Robert L. Linkey	X		X		X		X	X	X			X				X				X
Write-In																	X			
Judge of the Commonwealth Court																				
Chris Carpenter	X	U	X	X	X	X	X	X	X	X	X	X	X	X	U	X	X	X	X	
Write-In																				X
Judge of the Court of Common Pleas																				
Mary L. Daniel		X	X	X		X	X	X	X		X	X		X			X		X	X
John Roy	X	X							X	X					X			X		
Jack "Duke" Brodisky	X		X		X	X		X		X	X		X	X			X	X	X	X
Jon Young				X									X		X	X				
Vic Stabile					X		X					X				X				
Write-In																				
Write-In																				
County Chief Executive																				
Norman Powers	X				X	X		X	X		X		X	X	U		X		X	X
Sandra Reilly		X	X	X			X			X		X				X		X		
Write-In																				
School Director Region 6																				
Gerald Danson	U	X		X	X			X	X	X		X		X	X	X		X		X
Greg Ortiz	U	X	X			X		X	X				X	X					X	
Shlomo Archibald			X	X	X					X	X	X			X	X	X	X		X
Delores DeVan						X					X		X						X	
Write-In							X										X			
Write-In							U													
Commissioner Seat 2																				
Steve West	X		X	X	X	X	X	X	U	X	X		X	X	X		X	X	X	
Write-In		X										X				X				X
Referendum A																				
Yes	U		X	X	X	X	X	X	U		X	X	X	X	X	X	X	X	X	
No		X								X										X

Precinct 2 DEM	**B 1**	**B 2**	**B 3**	**B 4**	**B 5**	**B 6**	**B 7**	**B 8**	**B 9**	**B 10**	**B 11**	**B 12**	**B 13**	**B 14**	**B 15**	**B 16**	**B 17**	**B 18**	**B 19**	**B 20**
President of the United States																				
Barry Josey	X	X		X		X		X		X	U		X		X		X		X	X
Calvin Marino			X		X		X					X				X		X		
Write-In									X					X						
United States Senator																				
Oscar Draper	X		X	X			X			X		X	X	X	U		X			X

Carter McGaw		X			X			X			X					X		X	X	
Write-In						X			X											
Representative in Congress 5th District																				
Barbara Barret Hicks			X	X	X		X	X	X	X		X	X		X		X	X	X	
Clinton Testo		X				X					X			X						X
Write-In	X															X				
Governor																				
Charles Jasen	X	X	X		X	X			X		X	X	X	X		X		X		
Shirley Henning				X				X		X					X		X		X	
Write-In							X													X
Lieutenant Governor																				
Sherman R. Bucher		X						X						X		X		X		
Richard V. Suits										X										
Tabathia Song			X				X						X							X
Kenneth Interlicchio	X			X	X	X			X			X			X		X		X	
Write-In											X									
Representative in the General Assembly 83rd District																				
R. J. Abbott	X	X		X	X	X		X	X		X	U		X	X		X	X	X	X
Peter F. Saxton			X				X			X			X							
Write-In																X				
Presidential Nomination Delegation																				
Vincent Seymour		X		X		X		X			U			X		X		X		
Toni Hamilton	X		X		X	X	X		X	X	U	X	X		X		X	U	X	X
Sam Patel		X		X		X		X		X	U			X		X		U	X	X
Robert Rocco	X		X		X	X	X	U	X	X	U	X	X			X	X	U	X	X
Renee Cohn Jubelrier	X		X		X		X	U	X	X					X		X			
Morton Steele	X		X		X		X		X							X	X		X	X
Mary Burke		X		X										X	X					
Nyda E. Hambin		X		X										X	X					
Write-In												X	X							
Write-In												X	X							
Write-In																				
Write-In																				
Judge of the Superior Court																				
Linda Gapp		X				X		X				X			X				X	X
Patricia Smallmon	X		X	X	X		X		X	X			X	X		X	X			
Write-In											X							X		
Judge of the Commonwealth Court																				
Eugene Ruff	X	X		X	X		X	X	X			X			X	U			X	
Lewis Tese			X			X				X	X		X				X	X		X
Write-In														X						
Judge of the Court of Common Pleas																				
Joanne Shollzert	X	X	X		X	X		X	X	X		X	X	U	X		X		X	
Kerry Jones	X	X		X	X	U	X		X				X	U		X	X	X	X	
Steven Miller			X				X			X	X	X			X			X		X
Shirley Henning				X				X			X					X				X
Write-In																				
Write-In																				
County Chief Executive																				
Micheal Santarcangelo	X		X		X	X	X		X			X	X		X	X	X	U		X
Charles Place		X		X				X		X	X			X					X	
Write-In																				
School Director Region 6																				
Douglas Stone		X					U		X				X							
Gerald Danson		X		X		X	U	X	X	X		X	X	X		X	X			X
Greg Ortiz	X		X							X	X			X	X				X	
Shlomo Archibald			X	X		X		X			X	X			X	X		X	X	X
Delores DeVan	X				X												X	X		
Write-In					X															
Write-In																				
Commissioner Seat 2																				

Tetty Rogiers	X	X	X	X	U	X	X	X	X	X	X		X	X	X	X	U	X	X	X
Write-In												X								
Referendum A																				
Yes	X	X	U	X	U		U	X	X		U	X	U		X	X	U		U	
No						X				X				X				X		X

Precinct 3 REP	**B 1**	**B 2**	**B 3**	**B 4**	**B 5**	**B 6**	**B 7**	**B 8**	**B 9**	**B 10**	**B 11**	**B 12**	**B 13**	**B 14**	**B 15**	**B 16**	**B 17**	**B 18**	**B 19**	**B 20**
President of the United States																				
James Collins	X	X		U		X		X		X			X			X			X	X
Alexander P. Bicket					X		X				X			X			X			
Carol Koethen			X						X			X						X		
Write-In															X					
United States Senator																				
Bob Ford	U					X			X		X				X				X	
Colby Lincoln		X		X	X		X	X		X		X		X		X	X			X
Write-In			X										X					X		
Representative in Congress 10th District																				
Cheryl Simon		X		X					X		X				X			X	X	
Lois Koss	X		X		X	X	X	X		X		X	X	X		X				X
Write-In																	X			
Governor																				
Dean Lindsey				X			X				X		X			X				
Don Etter			X		X							X			X			X		
Joe Carlton	X					X			X	X				X			X			X
Edwin Lewis		X																	X	
Samuel Lawton								X												
Write-In																				
Lieutenant Governor																				
Scott Montes	X		X			X		X				X	X		X		X	X		
Saul Currier				X						X									X	
Arnold Krill		X			X		X		X					X		X				X
Write-In											X									
Representative in the General Assembly 84rd District																				
Peter Valle	X	X	X	X	U	X	X		X	X	X	X	X	X		X		X		X
Write-In								X							X		X		X	
Presidential Nomination Delegation																				
Gloria Dillion	X				X	U	X				X			X		X				
Heather Heidelbaugh	X					U		X	X		X					X			X	
Herbert Devine	X				X	U	X				X				X	X				
George A. Fisk		X			X		X			X		X		X			X			X
Doris Shiddles		X										X			X		X	X		
Andre Ninia		X		X				X				X					X	X	X	
Brian Getz			X					X		X			X							X
Chad Snow			X	X					X	X			X	X	X					
Diane Rubin			X										X						X	
Elizabeth Piazza				X														X		X
Write-In									X											
Write-In																				
Write-In																				
Judge of the Superior Court																				
Richard Maxian			X				X			X	X					X				X
Marjorie Hall					X			X						X					X	
Robert L. Linkey	X	X		X		X			X			X	X				X	X		
Write-In															X					
Judge of the Commonwealth Court																				
Chris Carpenter	U	X	X		X	X	X	X	U	X	X	X	X	X	X	X	X	X	U	X
Write-In				X																
Judge of the Court of Common Pleas																				
Mary L. Daniel		U	X	X	X		X	X	X	X				X			X	X		X
John Roy		U		X					X		X				X				X	

Jack "Duke" Brodisky	X		X		X	X		X		X	X	X	X	X				X	X	
Jon Young						X						X			X	X				X
Vic Stabile							X						X			X				
Write-In	X																X			
Write-In																				
County Chief Executive																				
Norman Powers	X		X	X		X	X		X		X		X		X		X		X	X
Sandra Reilly		X			X			X		X		X		X		X		X		
Write-In																				
School Director Region 6																				
Gerald Danson		X	X			X		X		X		X	X		X		X			X
Greg Ortiz			X	X				X	X			X		X				X		
Shlomo Archibald	X	X		X	X	X	X		X	X	X		X		X	X	X	X	X	X
Delores DeVan	X				X		X				X			X		X			X	
Write-In																				
Write-In																				
Commissioner Seat 3																				
William Malicki	X	X	X		X		X	X	X	X		X	U		X		X		X	X
Gary Klemann				X		X					X			X		X		X		
Write-In																				
Referendum A																				
Yes	X		X		X	X		X	X		U		U	X	X	U	X	X	X	X
No		X		X			X			X		X								

Precinct 3 DEM	**B 1**	**B 2**	**B 3**	**B 4**	**B 5**	**B 6**	**B 7**	**B 8**	**B 9**	**B 10**	**B 11**	**B 12**	**B 13**	**B 14**	**B 15**	**B 16**	**B 17**	**B 18**	**B 19**	**B 20**
President of the United States																				
Barry Josey				X		X		X				X		X		X				X
Calvin Marino	X		X		X		X		X	X			X		X		X	X	X	
Write-In		X									X									
United States Senator																				
Oscar Draper		X		X	X	X		X	X		X		X		X	X				X
Carter McGaw	X		X				X			X		X		X			X	X		
Write-In																			X	
Representative in Congress 10th District																				
William Sullivan	X	X	X	X	X	X	X	U	X	X		X	X		X	X	X	X	X	X
Write-In											X			X						
Governor																				
Charles Jasen	X		U	X	X		X		X		X	X		X		X		X		X
Shirley Henning		X				X				X			X		X		X		X	
Write-In								X												
Lieutenant Governor																				
Sherman R. Bucher		X	X		X			X				X		X		U				X
Richard V. Suits										X							X			
Tabathia Song							X				X							X		
Kenneth Interlicchio	X			X		X			X						X				X	
Write-In													X							
Representative in the General Assembly 84rd District																				
Neil Carey	X	X		X		X	X	X		X		X	X	X		X		X	X	X
Saul Currier			X		X				X						X		X			
Write-In											X									
Presidential Nomination Delegation																				
Vincent Seymour			U		X		X		X			X	X			X		U	X	X
Toni Hamilton	X	X	U	X		X		X			X		X	X			X	U		X
Sam Patel			U		X		X		X			X	X		X	X		U	X	X
Robert Rocco	X	X	U	X	U	X		X			X		X	X	X		X	U		X
Renee Cohn Jubelrier	X	X		X	U	X		X			X			X	X		X			
Morton Steele	X	U		X		X		X			X			X	X		X			
Mary Burke							X		X			X				X			X	
Nyda E. Hambin							X					X				X			X	
Write-In									X	X										

Write-In										X										
Write-In										X										
Write-In										X										
Judge of the Superior Court																				
Linda Gapp			X			X		X			X	X						X		
Patricia Smallmon	X	X		X	X		X		X	X			X	X		X	X		X	X
Write-In															X					
Judge of the Commonwealth Court																				
Eugene Ruff	X	X		X		X	X		X		X	X		X	X		X		X	X
Lewis Tese			X		X			X		X			X			X		X		
Write-In																				
Judge of the Court of Common Pleas																				
Joanne Shollzert		X	X		X	X		X	X		X		X		X	X	X		X	X
Kerry Jones			X	X	X	U	X	X			X	X	X	X		X		X	X	X
Steven Miller		X					X		X	X				X			X			
Shirley Henning				X						X		X						X		
Write-In	X														X					
Write-In	X																			
County Chief Executive																				
Micheal Santarcangelo	X		X	X		X	X		X	X	X		X		X	X		X	X	X
Charles Place					X			X				X		X			X			
Write-In		X																		
School Director Region 6																				
Douglas Stone	X		X					X			X	X				X		X		
Gerald Danson		X	X	X	X	X				X		X	X				X	X		X
Greg Ortiz	X			X					X		X					X				
Shlomo Archibald		X			X		X	X	X	X			X	X			X		X	X
Delores DeVan						X	X							X	X				X	
Write-In															X					
Write-In																				
Commissioner Seat 3																				
Arnold Wells	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
Write-In								X												
Referendum A																				
Yes	X		X		X		X		X		X		X		X		X		X	
No		X		X		X		X		X		X		X		X		X		X

Precinct 3 Non Partisan	**B 1**	**B 2**	**B 3**	**B 4**	**B 5**
Referendum A					
Yes	X		X		U
No		X		X	

Test Results:

Precinct 1 REP
President of the United States

James Collins	10
Alexander P. Bicket	4
Carol Koethen	3
Write-In	2
Undervotes	1

United States Senator

Bob Ford	6
Colby Lincoln	12
Write-In	2
Undervotes	0

Representative in Congress 5th District

Ben Baker	15
Write-In	4
Undervotes	1

Governor

Dean Lindsey	5
Don Etter	5
Joe Carlton	7
Edwin Lewis	2
Samuel Lawton	1
Write-In	0
Undervotes	0

Lieutenant Governor

Scott Montes	4
Saul Currier	4
Arnold Krill	9
Write-In	2
Undervotes	1

Representative in the General Assembly 83rd District

Harry Rider	12
Robert Tyrell	6
Write-In	2
Undervotes	0

Presidential Nomination Delegation

Gloria Dillion	14
Heather Heidelbaugh	8
Herbert Devine	13
George A. Fisk	4
Doris Shiddles	4
Andre Ninia	3
Brian Getz	3
Chad Snow	2
Diane Rubin	1
Elizabeth Piazza	2
Write-In	5
Undervotes	1

Judge of the Superior Court

Richard Maxian	5
Marjorie Hall	5
Robert L. Linkey	8
Write-In	1
Undervotes	1

Judge of the Commonwealth Court

Chris Carpenter	17
Write-In	1
Undervotes	2

Judge of the Court of Common Pleas

Mary L. Daniel	12
John Roy	3
Jack “Duke” Brodisky	11
Jon Young	5
Vic Stabile	3
Write-In	2
Undervotes	4

County Chief Executive

Norman Powers	12
Sandra Reilly	6
Write-In	1
Undervotes	1

School Director Region 6

Gerald Danson	11
Greg Ortiz	6
Shlomo Archibald	14
Delores DeVan	6
Write-In	1
Undervotes	2

Commissioner Seat 1

Stephen Harrick	16
Write-In	2
Undervotes	2

Referendum A

Yes	12
No	5
Undervote	3

Precinct 1 DEM

President of the United States

Barry Josey	6
Calvin Marino	12
Write-In	1
Undervotes	1

United States Senator

Oscar Draper	13
Carter McGaw	6
Write-In	1
Undervotes	0

Representative in Congress 5th District

Barbara Barret Hicks	13
Clinton Testo	6
Write-In	1
Undervotes	0

Governor

Charles Jasen	12
Shirley Henning	7
Write-In	1
Undervotes	0

Lieutenant Governor

Sherman R. Bucher	3
Richard V. Suits	3
Tabathia Song	4
Kenneth Interlicchio	9
Write-In	1
Undervotes	0

Representative in the General Assembly 83rd District

R. J. Abbott	12
Peter F. Saxton	6
Write-In	1
Undervotes	1

Presidential Nomination Delegation

Vincent Seymour	8
Toni Hamilton	10
Sam Patel	9
Robert Rocco	11
Renee Cohn Jubelrier	9
Morton Steele	8
Mary Burke	5
Nyda E. Hambin	4
Write-In	5

Undervotes	11

Judge of the Superior Court

Linda Gapp	6
Patricia Smallmon	12
Write-In	1
Undervotes	1

Judge of the Commonwealth Court

Eugene Ruff	11
Lewis Tese	8
Write-In	0
Undervotes	1

Judge of the Court of Common Pleas

Joanne Shollzert	12
Kerry Jones	13
Steven Miller	6
Shirley Henning	5
Write-In	1
Undervotes	3

County Chief Executive

Micheal Santarcangelo	13
Charles Place	7
Write-In	0
Undervotes	0

School Director Region 6

Douglas Stone	7
Gerald Danson	13
Greg Ortiz	6
Shlomo Archibald	11
Delores DeVan	3
Write-In	0
Undervotes	0

Commissioner Seat 1

George Fisk	19
Write-In	0
Undervotes	1

Referendum A

Yes	12
No	6
Undervote	2

Precinct 2 REP

President of the United States

James Collins	11
Alexander P. Bicket	4
Carol Koethen	3
Write-In	1
Undervotes	1

United States Senator

Bob Ford	7
Colby Lincoln	12
Write-In	1
Undervotes	0

Representative in Congress 5th District

Ben Baker	16
Write-In	2
Undervotes	2

Governor

Dean Lindsey	5
Don Etter	5
Joe Carlton	7
Edwin Lewis	2
Samuel Lawton	1
Write-In	0
Undervotes	0

Lieutenant Governor

Scott Montes	4
Saul Currier	5
Arnold Krill	9
Write-In	2
Undervotes	0

Representative in the General Assembly 83rd District

Harry Rider	13
Robert Tyrell	6
Write-In	1
Undervotes	0

Presidential Nomination Delegation

Gloria Dillion	11
Heather Heidelbaugh	8
Herbert Devine	8
George A. Fisk	3
Doris Shiddles	4
Andre Ninia	4
Brian Getz	5
Chad Snow	3
Diane Rubin	3
Elizabeth Piazza	4
Write-In	5
Undervotes	2

Judge of the Superior Court

Richard Maxian	5
Marjorie Hall	5
Robert L. Linkey	9
Write-In	1
Undervotes	0

Judge of the Commonwealth Court

Chris Carpenter	17
Write-In	1
Undervotes	2

Judge of the Court of Common Pleas

Mary L. Daniel	13
John Roy	6
Jack “Duke” Brodisky	13
Jon Young	4
Vic Stabile	4
Write-In	0
Undervotes	0

County Chief Executive

Norman Powers	11
Sandra Reilly	8
Write-In	0
Undervotes	1

School Director Region 6

Gerald Danson	12
Greg Ortiz	8
Shlomo Archibald	11
Delores DeVan	4
Write-In	2
Undervotes	3

Commissioner Seat 2

Steve West	15
Write-In	4
Undervotes	1

Referendum A

Yes	15
No	3
Undervote	2

Precinct 2 DEM

President of the United States

Barry Josey	11
Calvin Marino	6
Write-In	2
Undervotes	1

United States Senator

Oscar Draper	10
Carter McGaw	7
Write-In	2
Undervotes	1

Representative in Congress 5th District

Barbara Barret Hicks	13
Clinton Testo	5
Write-In	2
Undervotes	0

Governor

Charles Jasen	12
Shirley Henning	6
Write-In	2
Undervotes	0

Lieutenant Governor

Sherman R. Bucher	5
Richard V. Suits	1
Tabathia Song	4
Kenneth Interlicchio	9
Write-In	1
Undervotes	0

Representative in the General Assembly 83rd District

R. J. Abbott	14
Peter F. Saxton	4
Write-In	1
Undervotes	1

Presidential Nomination Delegation

Vincent Seymour	7
Toni Hamilton	13
Sam Patel	9
Robert Rocco	13
Renee Cohn Jubelrier	8
Morton Steele	9
Mary Burke	4
Nyda E. Hambin	4
Write-In	4
Undervotes	9

Judge of the Superior Court

Linda Gapp	7
Patricia Smallmon	11
Write-In	2
Undervotes	0

Judge of the Commonwealth Court

Eugene Ruff	10
Lewis Tese	8
Write-In	1
Undervotes	1

Judge of the Court of Common Pleas

Joanne Shollzert	13
Kerry Jones	11
Steven Miller	8
Shirley Henning	5
Write-In	0
Undervotes	3

County Chief Executive

Micheal Santarcangelo	12
Charles Place	7
Write-In	0
Undervotes	1

School Director Region 6

Douglas Stone	3
Gerald Danson	12
Greg Ortiz	7
Shlomo Archibald	11
Delores DeVan	4
Write-In	1
Undervotes	2

Commissioner Seat 2

Tetty Rogiers	17
Write-In	1
Undervotes	2

Referendum A

Yes	8
No	5
Undervote	7

Precinct 3 REP

President of the United States

James Collins	9
Alexander P. Bicket	5
Carol Koethen	4
Write-In	1
Undervotes	1

United States Senator

Bob Ford	5
Colby Lincoln	11
Write-In	3
Undervotes	1

Representative in Congress 10th District

Cheryl Simon	7
Lois Koss	12
Write-In	1
Undervotes	0

Governor

Dean Lindsey	5
Don Etter	5
Joe Carlton	7
Edwin Lewis	2
Samuel Lawton	1
Write-In	0
Undervotes	0

Lieutenant Governor

Scott Montes	9
Saul Currier	3
Arnold Krill	7
Write-In	1
Undervotes	0

Representative in the General Assembly 84rd District

Peter Valle	15
Write-In	4
Undervotes	1

Presidential Nomination Delegation

Gloria Dillion	6
Heather Heidelbaugh	6
Herbert Devine	6
George A. Fisk	8
Doris Shiddles	5
Andre Ninia	7
Brian Getz	5
Chad Snow	7
Diane Rubin	3
Elizabeth Piazza	3
Write-In	1
Undervotes	3

Judge of the Superior Court

Richard Maxian	6
Marjorie Hall	4
Robert L. Linkey	9
Write-In	1
Undervotes	0

Judge of the Commonwealth Court

Chris Carpenter	16
Write-In	1
Undervotes	3

Judge of the Court of Common Pleas

Mary L. Daniel	11
John Roy	5
Jack “Duke” Brodisky	12
Jon Young	5
Vic Stabile	3
Write-In	2
Undervotes	2

County Chief Executive

Norman Powers	12
Sandra Reilly	8
Write-In	0
Undervotes	0

School Director Region 6

Gerald Danson	10
Greg Ortiz	7
Shlomo Archibald	16
Delores DeVan	7
Write-In	0
Undervotes	0

Commissioner Seat 3

William Malicki	13
Gary Klemann	6
Write-In	0
Undervotes	1

Referendum A

Yes	12

No	5
Undervote	3

Precinct 3 DEM

President of the United States

Barry Josey	7
Calvin Marino	11
Write-In	2
Undervotes	0

United States Senator

Oscar Draper	11
Carter McGaw	8
Write-In	1
Undervotes	0

Representative in Congress 10th District

William Sullivan	17
Write-In	2
Undervotes	1

Governor

Charles Jasen	11
Shirley Henning	7
Write-In	1
Undervotes	1

Lieutenant Governor

Sherman R. Bucher	7
Richard V. Suits	2
Tabathia Song	3
Kenneth Interlicchio	6
Write-In	1
Undervotes	1

Representative in the General Assembly 84rd District

Neil Carey	14
Saul Currier	5
Write-In	1
Undervotes	0

Presidential Nomination Delegation

Vincent Seymour	8
Toni Hamilton	10
Sam Patel	9
Robert Rocco	11
Renee Cohn Jubelrier	9
Morton Steele	8
Mary Burke	5
Nyda E. Hambin	4
Write-In	5
Undervotes	11

Judge of the Superior Court

Linda Gapp	6
Patricia Smallmon	13
Write-In	1
Undervotes	0

Judge of the Commonwealth Court

Eugene Ruff	13
Lewis Tese	7
Write-In	0
Undervotes	0

Judge of the Court of Common Pleas

Joanne Shollzert	13

Kerry Jones	13
Steven Miller	6
Shirley Henning	4
Write-In	3
Undervotes	1

County Chief Executive

Micheal Santarcangelo	14
Charles Place	5
Write-In	1
Undervotes	0

School Director Region 6

Douglas Stone	7
Gerald Danson	11
Greg Ortiz	5
Shlomo Archibald	11
Delores DeVan	5
Write-In	1
Undervotes	0

Commissioner Seat 3

Arnold Wells	19
Write-In	1
Undervotes	0

Referendum A

Yes	10
No	10
Undervote	0

Precinct 3 Non Partisan

Referendum A

Yes	2
No	2
Undervote	1

Cumulative Totals REP:

President of the United States

James Collins	30
Alexander P. Bicket	13
Carol Koethen	10
Write-In	4
Undervote	3

United States Senator

Bob Ford	18
Colby Lincoln	35
Write-In	6
Undervote	1

Representative in Congress 5th District

Ben Baker	31
Write-In	6
Undervote	3

Representative in Congress 10th District

Cheryl Simon	7
Lois Koss	12
Write-In	1
Undervote	0

Governor

Dean Lindsey	15
Don Etter	15

Joe Carlton	21
Edwin Lewis	6
Samuel Lawton	3
Write-In	0
Undervotes	0

Lieutenant Governor

Scott Montes	17
Saul Currier	12
Arnold Krill	25
Write-In	5
Undervotes	1

Representative in the General Assembly 83rd District

Harry Rider	25
Robert Tyrell	12
Write-In	3
Undervotes	0

Representative in the General Assembly 84rd District

Peter Valle	15
Write-In	4
Undervotes	1

Presidential Nomination Delegation

Gloria Dillion	31
Heather Heidelbaugh	22
Herbert Devine	27
George A. Fisk	15
Doris Shiddles	13
Andre Ninia	14
Brian Getz	13
Chad Snow	12
Diane Rubin	7
Elizabeth Piazza	9
Write-In	11
Undervotes	6

Judge of the Superior Court

Richard Maxian	16
Marjorie Hall	14
Robert L. Linkey	26
Write-In	3
Undervotes	1

Judge of the Commonwealth Court

Chris Carpenter	50
Write-In	3
Undervotes	7

Judge of the Court of Common Pleas

Mary L. Daniel	36
John Roy	14
Jack “Duke” Brodisky	36
Jon Young	14
Vic Stabile	10
Write-In	4
Undervotes	6

County Chief Executive

Norman Powers	35
Sandra Reilly	22
Write-In	1
Undervotes	2

School Director Region 6

Gerald Danson	33
Greg Ortiz	21
Shlomo Archibald	41

Delores DeVan	17
Write-In	3
Undervotes	5

Commissioner Seat 1 REP

Stephen Harrick	16
Write-In	2
Undervotes	2

Commissioner Seat 2 REP

Steve West	15
Write-In	4
Undervotes	1

Commissioner Seat 3 REP

William Malicki	13
Gary Klemann	6
Write-In	0
Undervotes	1

Referendum A REP

Yes	39
No	13
Undervote	8

Cumulative Totals DEM:

President of the United States

Barry Josey	24
Calvin Marino	29
Write-In	5
Undervotes	2

United States Senator

Oscar Draper	34
Carter McGaw	21
Write-In	4
Undervotes	1

Representative in Congress 5th District

Barbara Barret Hicks	26
Clinton Testo	11
Write-In	3
Undervotes	0

Representative in Congress 10th District

William Sullivan	17
Write-In	2
Undervotes	1

Governor

Charles Jasen	35
Shirley Henning	20
Write-In	4
Undervotes	1

Lieutenant Governor

Sherman R. Bucher	15
Richard V. Suits	6
Tabathia Song	11
Kenneth Interlicchio	24
Write-In	3
Undervotes	1

Representative in the General Assembly 83rd District

R. J. Abbott	26
Peter F. Saxton	10

Write-In	2
Undervotes	2

Representative in the General Assembly 84rd District

Neil Carey	14
Saul Currier	5
Write-In	1
Undervotes	0

Presidential Nomination Delegation

Vincent Seymour	23
Toni Hamilton	33
Sam Patel	27
Robert Rocco	35
Renee Cohn Jubelrier	26
Morton Steele	25
Mary Burke	14
Nyda E. Hambin	12
Write-In	14
Undervotes	31

Judge of the Superior Court

Linda Gapp	19
Patricia Smallmon	36
Write-In	4
Undervotes	1

Judge of the Commonwealth Court

Eugene Ruff	34
Lewis Tese	23
Write-In	1
Undervotes	2

Judge of the Court of Common Pleas

Joanne Shollzert	38
Kerry Jones	37
Steven Miller	20
Shirley Henning	14
Write-In	4
Undervotes	7

County Chief Executive

Micheal Santarcangelo	39
Charles Place	19
Write-In	1
Undervotes	1

School Director Region 6

Douglas Stone	17
Gerald Danson	36
Greg Ortiz	18
Shlomo Archibald	33
Delores DeVan	12
Write-In	2
Undervotes	2

Commissioner Seat 1 DEM

George Fisk	19
Write-In	0
Undervotes	1

Commissioner Seat 2 DEM

Tetty Rogiers	17
Write-In	1
Undervotes	2

Commissioner Seat 3 DEM

Arnold Wells	19
Write-In	1
Undervotes	0

Referendum A DEM

Yes	30
No	21
Undervote	9

Cumulative Totals Non Partisan:

Referendum A

Yes	2
No	2
Undervote	1

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			
President/Vice President of the United States Vote for the Candidate of One Party for President and Vice President or insert the names of candidates			
James Collins Arthur Remus			

Republican

Calvin Marino
Keith Satterwhite
Democratic

John P. Defazio
Louis Denn
Green

June Perkins
David Heroux
Libertarian

Write-In

United States Senator
Vote for One

Colby Lincoln
Republican

Oscar Draper
Democratic

Eric Sheely
Libertarian

Write-In

Representative in Congress
5th District
Vote for One

Ben Baker
Republican

Barbara Barrett Hicks
Democratic

Write-In

Representative in Congress
10th District
Vote for One

Lois Koss
Republican

William Sullivan
Democratic

Write-In

Governor/Lieutenant Governor
Vote for the Candidate of One Party for Governor and Lieutenant Governor

Joe Carlton
Arnold Krill
Republican

Charles Jasen
Kenneth Interlicchio
Democratic

Robert Marsh
Theodore Kopp
Green

Write-In

Representative in the General Assembly
83rd District
Vote for One

Harry Rider
Republican

R. J. Abbott
Democratic

Representative in the General Assembly
84th District
Vote for One

Peter Valle
Republican

Neil Carey
Democratic

Derek Carlson *Libertarian* Write-In	Write-In

Judge of the Superior Court
Vote for One

Robert L .Linkey
Republican

Patricia Smallmon
Democratic

Write-In

Judge of the Commonwealth Court
Vote for One

Chris Carpenter
Republican

Eugene Ruff
Democratic

Write-In

Judge of the Court of Common Pleas
Vote for Not More Than Two

Mary L. Daniel
Republican

Jack “Duke” Brodisky
Republican

Joanne Schollzert
Democratic

Kerry Jones
Democratic

Write-In

Write-In

County Chief Executive
Four Year Term
Vote for One

Norman Powers
Republican

Micheal Santarcangelo
Democratic
Write-In

County Controller
Four Year Term
Vote for One

Paul M Bertel-Lincoln
Republican

Donna Berke
Democratic

Write-In

District Attorney
Four Year Term
Vote for One

Franklin Margo
Republican

Donald Hensley
Democratic

Write-In

School Director
Region 6
Four Year Term
Vote for Not More Than Two

Gerald Danson
Republican/Democratic

Shlomo Archibald
Republican/Democratic

Write-In

Write-In

Commissioner	**Commissioner**	**Commissioner**
Seat 1	Seat 2	Seat 3
Four Year Term	Four Year Term	Four Year Term
Vote for One	Vote for One	Vote for One
Stephen Harrick *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?

Yes

No

Retention of Debbie Marks

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

Yes

No

Spanish

Distrito electoral 1	Distrito electoral 2a	Distrito electoral 2b	Distrito electoral 3

Partido íntegro

Republicano

Demócrata

Verde

Libertario

Presidente/Vicepresidente de los Estados Unidos
Vote para el candidato de un partido para presidente y vicepresidente
o inserte los nombres de los candidatos

James Collins
Arthur Remus
Republicano

Calvin Marino
Keith Satterwhite
Demócrata

John P. Defazio
Louis Denn
Verde

June Perkins
David Heroux
Libertario

Por escrito

Senador de los Estados Unidos
Vote por uno

Colby Lincoln
Republicano

Oscar Draper
Demócrata

Eric Sheely
Libertario

Por escrito

Representante en el Congreso **5º Distrito** Vote por uno	Representante en el Congreso **10.º Distrito** Vote por uno
Ben Baker *Republicano*	Lois Koss

Barbara Barret Hicks *Demócrata* Por escrito	*Republicano* William Sullivan *Demócrata* Por escrito

Gobernador/vicegobernador
Vote para el candidato de un partido para gobernador y vicegobernador

Joe Carlton
Arnold Krill
Republicano

Charles Jasen
Kenneth Interlicchio
Demócrata

Robert Marsh
Theodore Kopp
Verde

Por escrito

Representante en la Asamblea General **83.° Distrito** Vote por uno	**Representante en la Asamblea General** **84.° Distrito** Vote por uno
Harry Rider *Republicano* R. J. Abbott *Demócrata* Derek Carlson *Libertario* Por escrito	Peter Valle *Republicano* Neil Carey *Demócrata* Por escrito

Juez de la corte suprema
Vote por uno

Robert L. Linkey
Republicano

Patricia Smallmon
Demócrata

Por escrito

Juez de la corte del estado
Vote por uno

Chris Carpenter
Republicano

Eugene Ruff
Demócrata

Por escrito

Juez de la corte de primeras instancias
No vote por más de dos

Mary L. Daniel

Republicano

Jack “Duke” Brodisky
Republicano

Joanne Schollzert
Demócrata

Kerry Jones
Demócrata

Por escrito

Por escrito

Jefe principal del condado
Término de cuatro años
Vote por uno

Norman Powers
Republicano

Micheal Santarcangelo
Demócrata
Por escrito

Contralor del condado
Término de cuatro años
Vote por uno

Paul M Bertel-Lincoln
Republicano

Donna Berke
Demócrata

Por escrito

Procurador del distrito
Término de cuatro años
Vote por uno

Franklin Margo
Republicano

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

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 *Republicano*	Tetty Rogiers *Republicano*	William Malicki *Republicano*
George Fisk *Demócrata*	Steve West *Demócrata*	Arnold Wells *Demócrata*
Por escrito	Por escrito	Por escrito

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

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

Sí

No

Retención de Tony Grzanich

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

Sí

No

Retención de Debbie Marks

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

Sí

No

Voting Pattern:

Ballots will be voted and cast with the following pattern. Ballots 3 and 13 will be input using the alternative language option. Ballots 10 and 18 will be input using the ADA audio capability. Ballots 5 and 10 in Precinct 1 and Ballot 10 in Precinct 3 will exercise the Pennsylvania Method for straight party.

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

Precinct 1	**B 1**	**B 2**	**B 3**	**B 4**	**B 5**	**B 6**	**B 7**	**B 8**	**B 9**	**B 10**	**B 11**	**B 12**	**B 13**	**B 14**	**B 15**	**B 16**	**B 17**	**B 18**	**B 19**	**B 20**
Straight Party																				
Republican	X		X		P	U	U		U		U	U	U	U		U	U	U	U	U
Democratic		X		X						P										
Green																				
Libertarian								X							X					
President/Vice President of the United States																				
James Collins Arthur Remus						X			X		X	X					X			U
Calvin Marino Keith Satterwhite							X						X	X		X		X		
John P. Defazio																				

Louis Denn																				
June Perkins David Heroux								X							X					
Write-In																			X	
United States Senator																				
Colby Lincoln						X							X			X				
Oscar Draper							X				X	X		X	X		X	X	X	
Eric Sheely								X												
Write-In									X											X
Representative in Congress 5th District																				
Ben Baker						X	X					U		X	X		X		X	X
Barbara Barrett Hicks									X		X		X					X		
Write-In								X								X				
Governor/Lieutenant Governor																				
Joe Carlton Arnold Krill								X	X		X	X		X	X		X	X		X
Charles Jasen Kenneth Interlicchio							X						X			X			X	
Robert Marsh Theodore Kopp																				
Write-In						X														
Representative in the General Assembly 83rd District																				
Harry Rider													X	X			X	X		X
R. J. Abbott						X		X				X							X	
Derek Carlson									X						X					
Write-In							X				X					X				
Judge of the Superior Court																				
Robert L. Linkey						X		X			U			X			X			
Patricia Smallmon							X		X			X	X		X	X		X	X	
Write-In																				X
Judge of the Commonwealth Court																				
Chris Carpenter								X	X		X			X		X				
Eugene Ruff						X	X					X			X		X	X		
Write-In													X						X	X
Judge of the Court of Common Pleas																				
Mary L. Daniel						X					X	X	X				X	X	X	X
Jack "Duke" Brodisky						X	X				X	X		X					X	X
Joanne Schollzert							X	X					X		X	X	X	X		
Kerry Jones								X	X					X	X	X				
Write-In									X	P										
Write-In										U										
County Chief Executive																				
Norman Powers						X	X					X		U	X		X			
Micheal Santarcangelo								X	X		X		X			X		X		
Write-in																			X	X
County Controller																				
Paul M Bertel-Lincoln						U			X			X	X	X			X	U		
Donna Berke							X				X				X				X	X
Write-In								X								X				
District Attorney																				
Franklin Margo						X			X				X		X		X	X		
Donald Hensley							X				X			X		X			X	
Write-In								X				X								X
School Director Region 6																				
Gerald Danson						X	X		X		X	X		X	X	X	U		X	X
Shlomo Archibald						X	X	X			X	X	X		X	U	U		X	X
Write-In					P			X	X				X	X				X		
Write-In					P													U		
Commissioner Seat 1																				
Stephen Harrick							X	X	X		X	X	X		X	X		X		X
George Fisk						X				X				X			X			
Write-in																			X	

Statewide Referendum																				
Yes			X	U	X							X		X	X	X	U			
No	X	X				X	X	X	X	X	X		X					X	X	X
Retention of Tony Grzanich																				
Yes	X	X			X	X		X		X	X	X	X		X			U	X	
No			X	X			X		X					X		X	X			X
Retention of Debbie Marks																				
Yes		X		X	X	X			X	X	X	X	X			X	U	U		X
No	X		X				X	X						X	X				X	

Precinct 2a	**B 1**	**B 2**	**B 3**	**B 4**	**B 5**	**B 6**	**B 7**	**B 8**	**B 9**	**B 10**	**B 11**	**B 12**	**B 13**	**B 14**	**B 15**	**B 16**	**B 17**	**B 18**	**B 19**	**B 20**
Straight Party																				
Republican	X	X	X		U	U	U		U	P	U	U	U	U		U	U	U	U	U
Democratic				X																
Green																				
Libertarian								X							X					
President/Vice President of the United States																				
James Collins Arthur Remus					X	X	X				X	X				X	X	X	X	
Calvin Marino Keith Satterwhite									X				X	X						
John P. Defazio Louis Denn																				
June Perkins David Heroux								X							X					
Write-In																				X
United States Senator																				
Colby Lincoln					X		X				X	X		X			X	X		X
Oscar Draper						X			X				X						X	
Eric Sheely								X							X					
Write-In																X				
Representative in Congress 5th District																				
Ben Baker					X	X	X		X		X			X	U	X	X	X		
Barbara Barrett Hicks								X				X							X	X
Write-In													X							
Governor/Lieutenant Governor																				
Joe Carlton Arnold Krill					X		X	X	X			X			U	X	X		X	X
Charles Jasen Kenneth Interlicchio						X					X		X					X		
Robert Marsh Theodore Kopp																				
Write-In														X						
Representative in the General Assembly 83rd District																				
Harry Rider					X	X			X					X		X	X			X
R. J. Abbott							X				X	X	X					X	X	
Derek Carlson								X							X					
Write-In																				
Judge of the Superior Court																				
Robert L .Linkey						U	X		X			X	X	X				X	X	X
Patricia Smallmon					X						X				X	X	X			
Write-In								X												
Judge of the Commonwealth Court																				
Chris Carpenter					X	X	X		X		X	X		X		X		U	X	
Eugene Ruff								X					X				X			X
Write-In															X					
Judge of the Court of Common Pleas																				
Mary L. Daniel					X	X	X	X			X			X	X	X		X	X	
Jack "Duke" Brodisky					X	X			X		U		X		X	X				
Joanne Schollzert							X		X	P							X		X	X
Kerry Jones								X		P			X				X			X

Write-In												X		X						
Write-In												X						X		
County Chief Executive																				
Norman Powers					X		X	X	X			U	X				X	X	X	X
Micheal Santarcangelo						X					X				X	X				
Write-in														X						
County Controller																				
Paul M Bertel-Lincoln					X	X		X			X			X	U	X		X		U
Donna Berke							X		X			X	X				X		X	
Write-In																				
District Attorney																				
Franklin Margo						X	X				X			X		X				
Donald Hensley					X			X	X			X	X				X	X	X	X
Write-In															X					
School Director Region 6																				
Gerald Danson					X	X	X	X	X		X	X	U		X	X	X		X	X
Shlomo Archibald					X	X	X	X			X	X	U		X	U		X	X	X
Write-In									X					X			X	X		
Write-In														X						
Commissioner Seat 2																				
Steve West					U		X		X		X	X			X		X	X		
Tetty Rogiers						U		X					X			X			X	X
Write-in														X						
Statewide Referendum																				
Yes					U	X	X				U	X					X		X	X
No	X	X	X	X				X	X	X			X	X	X	X		X		
Retention of Tony Grzanich																				
Yes	X	X	X	X		X	X	X	X	X	U		X	X	X	X		U	X	X
No					X							X					X			
Retention of Debbie Marks																				
Yes	X	X	U	X		X	X	X		X	X	X	X		X	X	X	X	X	
No					X				X					X						X

Precinct 2b	**B 1**	**B 2**	**B 3**	**B 4**	**B 5**	**B 6**	**B 7**	**B 8**	**B 9**	**B 10**	**B 11**	**B 12**	**B 13**	**B 14**	**B 15**	**B 16**	**B 17**	**B 18**	**B 19**	**B 20**
Straight Party																				
Republican		X			U	U	U	U	U		U			U		U		U	U	U
Democratic	X		X	X						P										
Green												X			X		X			
Libertarian													X							
President/Vice President of the United States																				
James Collins Arthur Remus					X	X		X	X		X			X			X		X	X
Calvin Marino Keith Satterwhite							X									X		X		
John P. Defazio Louis Denn												X			X					
June Perkins David Heroux													X							
Write-In																				
United States Senator																				
Colby Lincoln					X	X		X	X		X	X		X		U	X		X	X
Oscar Draper							X											X		
Eric Sheely													X							
Write-In															X					
Representative in Congress 5th District																				
Ben Baker					X	X	X		X				U		X		X		X	
Barbara Barrett Hicks								X			X			X		X		X		X
Write-In												X								
Governor/Lieutenant Governor																				
Joe Carlton Arnold Krill					X		X		X					X				X	X	X

Charles Jasen Kenneth Interlicchio						X		X			X					X				
Robert Marsh Theodore Kopp												X			X		X			
Write-In													X							
Representative in the General Assembly 84rd District																				
Peter Valle					X	X		X	X		X				X	X	X		X	
Neil Carey							X					X	X					X		X
Write-In														X						
Judge of the Superior Court																				
Robert L. Linkey					X		X	X			X	X	X		X	X	X	X		
Patricia Smallmon						X			X					X						X
Write-In																			X	
Judge of the Commonwealth Court																				
Chris Carpenter						X		X	X		X		X			X	X	U		X
Eugene Ruff							X					X		X					X	
Write-In					X										X					
Judge of the Court of Common Pleas																				
Mary L. Daniel					X	X	X	X			X			U		X	X	X		
Jack "Duke" Brodisky					X	X			X			X		U		X	X			
Joanne Schollzert							X		X									X	X	X
Kerry Jones								X							X				X	X
Write-In											X	X	X		U					
Write-In													X							
County Chief Executive																				
Norman Powers					X	X		X	X			X			X	X	U		X	X
Micheal Santarcangelo							X				X		X	X						
Write-in																		X		
County Controller																				
Paul M Bertel-Lincoln					U		X	X	X			X	X		X	X		X	X	X
Donna Berke						X					X			X			X			
Write-In																				
District Attorney																				
Franklin Margo											X			X			X			
Donald Hensley					X	X	X	X	X			X	X		X	X		X	X	X
Write-In																				
School Director Region 6																				
Gerald Danson					X	X	X	X			X	X	U	X	X	X		X	X	X
Shlomo Archibald					X	X		X	X		X	X	U	X	X	X	X	X	X	X
Write-In							X		X								U			
Write-In																				
Commissioner Seat 2																				
Steve West					X	X		X	X		X	X	X		X	X	X	X	X	
Tetty Rogiers							X													X
Write-in														X						
Statewide Referendum																				
Yes	X	X			X		X		X		X	X	X	X						
No			X	X		X		X		X					X	X	X	X	X	X
Retention of Tony Grzanich																				
Yes	X	X		X	X	X		X	X	X		U	X		X	X	X		X	X
No			X				X				X			X				X		
Retention of Debbie Marks																				
Yes		X	X	X		U			X	X	X	X	X	X		X	X		X	X
No	X				X		X	X							X			X		

Precinct 3	**B 1**	**B 2**	**B 3**	**B 4**	**B 5**	**B 6**	**B 7**	**B 8**	**B 9**	**B 10**	**B 11**	**B 12**	**B 13**	**B 14**	**B 15**	**B 16**	**B 17**	**B 18**	**B 19**	**B 20**
Straight Party																				
Republican	X	X	X	X	U	U		U	U		U	U	U		U		U	U		U
Democratic										P										
Green														X		X				
Libertarian							X												X	

President/Vice President of the United States																				
James Collins Arthur Remus					X			X	X			X	X		X		X	X		X
Calvin Marino Keith Satterwhite						X					X									
John P. Defazio Louis Denn														X		X				
June Perkins David Heroux							X												X	
Write-In																				
United States Senator																				
Colby Lincoln						X		X			X		X	X	X	X		X		X
Oscar Draper					X				X			X					X			
Eric Sheely							X												X	
Write-In																				
Representative in Congress 10th District																				
Lois Koss					X		X	X	X		X		X	X		X		U	X	X
William Sullivan						X		X				X					X			
Write-In															X					
Governor/Lieutenant Governor																				
Joe Carlton Arnold Krill					X	X		X			X				X		X		X	
Charles Jasen Kenneth Interlicchio							X					X						X		X
Robert Marsh Theodore Kopp														X		X				
Write-In									X				X							
Representative in the General Assembly 84rd District																				
Peter Valle					X		X	X	X		X		X		X		U	X		
Neil Carey						X						X		X		X			X	
Write-In																				X
Judge of the Superior Court																				
Robert L. Linkey					X	X		X			X	X		X		X	X	X		X
Patricia Smallmon							X		X						X				X	
Write-In													X							
Judge of the Commonwealth Court																				
Chris Carpenter					X			X			X		X		X	X		X	X	X
Eugene Ruff						X	X		X					X			X			
Write-In												X								
Judge of the Court of Common Pleas																				
Mary L. Daniel					X										U	X	X		X	X
Jack "Duke" Brodisky					X	X	X	X					X	X	U	X	X		X	X
Joanne Schollzert						X	X		X		X	X		U				X		
Kerry Jones								X	X		X							X		
Write-In										P		X	X							
Write-In										U										
County Chief Executive																				
Norman Powers						X		X	X		X		X		X	X		X		X
Micheal Santarcangelo					X		X					X		X			X		X	
Write-in																				
County Controller																				
Paul M Bertel- Lincoln					U		U	X	X		X				X	X	X		X	X
Donna Berke						X						X		X				X		
Write-In													X							
District Attorney																				
Franklin Margo							X				X			U			X		X	X
Donald Hensley					X	X		X	X			X			X	X		X		
Write-In													X							
School Director Region 6																				
Gerald Danson					X	X	X	X	X		X		X	X	U	X	X	U	X	X
Shlomo Archibald					X	X	X	X	X		X	X	X	X	U	X		X	X	X
Write-In												X					X			
Write-In																				

Commissioner Seat 3																				
William Malicki						X	X	X				X	X		X		X	U	X	
Arnold Wells					X				X					X		X				X
Write-in											X									
Statewide Referendum																				
Yes	X				X			X		U		X			X				U	X
No		X	X	X		X	X		X		X		X	X		X	X	X		
Retention of Tony Grzanich																				
Yes	X	X	X		X	X		X		X	X	X		X	X		X		X	X
No				X			X		X				X			X		X		
Retention of Debbie Marks																				
Yes		X		X		X		X		X	X	X	X						X	X
No	X		X		X		X		X					X	X	X	X	X		

Test Results:

Precinct 1:
Straight Party

Republican	3
Democratic	3
Green	0
Libertarian	2
Undervote	12

President/Vice President of the United States

James Collins	
Arthur Remus	8
Calvin Marino	
Keith Satterwhite	8
John P .Defazio	
Louis Denn	0
June Perkins	
David Heroux	2
Write-In	1
Undervote	1

United States Senator

Colby Lincoln	6
Oscar Draper	11
Eric Sheely	1
Write-In	2
Undervote	0

Representative in Congress District 5

Ben Baker	10
Barbara Barrett-Hicks	7
Write-In	2
Undervote	1

Governor/Lieutenant Governor

Joe Carlton	
Arnold Krill	12
Charles Jasen	
Kenneth Interlicchio	7
Robert Marsh	
Theodore Kopp	0
Write-In	1
Undervote	0

Representative in the General Assembly District 83

Harry Rider	8
R.J. Abbott	7
Derek Carlson	2
Write-In	3
Undervote	0

Judge of Superior Court

Robert L. Linkey	7
Patricia Smallmon	11
Write-In	1
Undervote	1

Judge of the Commonwealth Court

Chris Carpenter	8
Eugene Ruff	9
Write-In	3
Undervote	0

Judge of the Court of Common Pleas

Mary L. Daniel	11
Jack "Duke" Brodisky	10
Joanne Scholzert	9
Kerry jones	7
Write-In	2
Undervote	1

County Chief Executive

Norman Powers	8
Micheal Santarcangelo	9
Write-In	2
Undervote	1

County Controller

Paul M. Bertel-Lincoln	8
Donna Berke	8
Write-In	2
Undervote	2

District Attorney

Franklin Margo	9
Donald Hensley	8
Write-In	3
Undervote	0

School Director Region 6

Gerald Danson	15
Shlomo Archibald	14
Write-In	7
Undervote	4

Commissioner Seat 1

Stephen Harrick	13
George Fisk	6
Write-In	1
Undervote	0

Statewide Referendum

Yes	6
No	12
Undervote	2

Retention of Tony Grzanich

Yes	11
No	8
Undervote	1

Retention of Debbie Marks

Yes	11
No	7
Undervote	2

Precinct 2a:
Straight Party

Republican	4
Democratic	1

Green	0
Libertarian	2
Undervote	13

President/Vice President of the United States

James Collins	
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 Governor

Joe Carlton	
Arnold Krill	13
Charles Jasen	
Kenneth Interlicchio	5
Robert Marsh	
Theodore Kopp	0
Write-In	1
Undervote	1

Representative in the General Assembly District 83

Harry Rider	11
R.J. Abbott	7
Derek Carlson	2
Write-In	0
Undervote	0

Judge of Superior Court

Robert L .Linkey	12
Patricia Smallmon	6
Write-In	1
Undervote	1

Judge of the Commonwealth Court

Chris Carpenter	13
Eugene Ruff	5
Write-In	1
Undervote	1

Judge of the Court of Common Pleas

Mary L. Daniel	13
Jack “Duke” Brodisky	9
Joanne Scholzert	7
Kerry jones	6
Write-In	4
Undervote	1

County Chief Executive

Norman Powers	13
Micheal Santarcangelo	5
Write-In	1

Undervote	1

County Controller

Paul M. Bertel-Lincoln	11
Donna Berke	7
Write-In	0
Undervote	2

District Attorney

Franklin Margo	9
Donald Hensley	10
Write-In	1
Undervote	0

School Director Region 6

Gerald Danson	17
Shlomo Archibald	15
Write-In	5
Undervote	3

Commissioner Seat 2

Steve West	11
Tetty Rogiers	6
Write-In	1
Undervote	2

Statewide Referendum

Yes	6
No	12
Undervote	2

Retention of Tony Grzanich

Yes	15
No	3
Undervote	2

Retention of Debbie Marks

Yes	15
No	4
Undervote	1

Precinct 2b:
Straight Party

Republican	1
Democratic	4
Green	3
Libertarian	1
Undervote	11

President/Vice President of the United States

James Collins	
Arthur Remus	10
Calvin Marino	
Keith Satterwhite	7
John P. Defazio	
Louis Denn	2
June Perkins	
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 District 5

Ben Baker	8
Barbara Barrett-Hicks	10
Write-In	1
Undervote	1

Governor/Lieutenant Governor

Joe Carlton	
Arnold Krill	8
Charles Jasen	
Kenneth Interlicchio	8
Robert Marsh	
Theodore Kopp	3
Write-In	1
Undervote	0

Representative in the General Assembly District 84

Peter Valle	10
Neil Carey	9
Write-In	1
Undervote	0

Judge of Superior Court

Robert L. Linkey	11
Patricia Smallmon	8
Write-In	1
Undervote	0

Judge of the Commonwealth Court

Chris Carpenter	9
Eugene Ruff	8
Write-In	2
Undervote	1

Judge of the Court of Common Pleas

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
Retention of Tony Grzanich	
Yes	14
No	5
Undervote	1
Retention of Debbie Marks	
Yes	13
No	6
Undervote	1

Precinct 3:

Straight Party	
Republican	4
Democratic	1
Green	2
Libertarian	2
Undervote	11
President/Vice President of the United States	
James Collins	
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	
Colby Lincoln	13
Oscar Draper	5
Eric Sheely	2
Write-In	0
Undervote	0
Representative in Congress District 10	
Lois Koss	14
William Sullivan	4
Write-In	1
Undervote	1
Governor/Lieutenant Governor	
Joe Carlton	
Arnold Krill	11
Charles Jasen	
Kenneth Interlicchio	5
Robert Marsh	
Theodore Kopp	2
Write-In	2
Undervote	0
Representative in the General Assembly District 84	
Peter Valle	12
Neil Carey	6
Write-In	1
Undervote	1
Judge of Superior Court	
Robert L. Linkey	14

Patricia Smallmon	5
Write-In	1
Undervote	0

Judge of the Commonwealth Court

Chris Carpenter	13
Eugene Ruff	6
Write-In	1
Undervote	0

Judge of the Court of Common Pleas

Mary L. Daniel	9
Jack "Duke" Brodisky	14
Joanne Scholzert	6
Kerry jones	4
Write-In	3
Undervote	4

County Chief Executive

Norman Powers	13
Micheal Santarcangelo	7
Write-In	0
Undervote	0

County Controller

Paul M. Bertel-Lincoln	12
Donna Berke	5
Write-In	1
Undervote	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

Retention of Tony Grzanich

Yes	14
No	6
Undervote	0

Retention of Debbie Marks

Yes	10
No	10
Undervote	0

Cumulative Totals:

Straight Party

Republican	12
Democratic	9
Green	5

Libertarian	7
Undervote	47

President/Vice President of the 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
Undervote	1

United States Senator

Colby Lincoln	42
Oscar Draper	27
Eric Sheely	6
Write-In	4
Undervote	1

Representative in Congress District 5

Ben Baker	31
Barbara Barrett-Hicks	22
Write-In	4
Undervote	3

Representative in Congress District 10

Lois Koss	14
William Sullivan	4
Write-In	1
Undervote	1

Governor/Lieutenant Governor

Joe Carlton	
Arnold Krill	44
Charles Jasen	
Kenneth Interlicchio	25
Robert Marsh	
Theodore Kopp	5
Write-In	5
Undervote	1

Representative in the General Assembly District 83

Harry Rider	19
R.J. Abbott	14
Derek Carlson	4
Write-In	3
Undervote	0

Representative in the General Assembly District 84

Peter Valle	22
Neil Carey	15
Write-In	2
Undervote	1

Judge of Superior Court

Robert L. Linkey	44
Patricia Smallmon	30
Write-In	4
Undervote	2

Judge of the Commonwealth Court

Chris Carpenter	43
Eugene Ruff	28
Write-In	7
Undervote	2

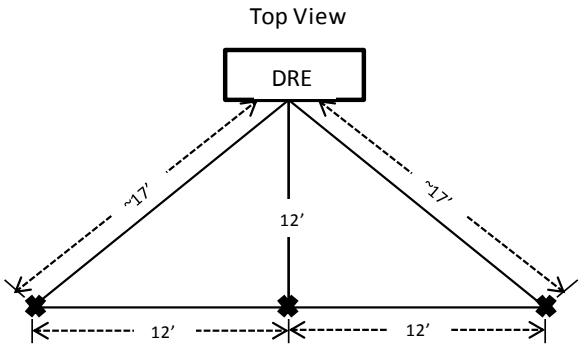
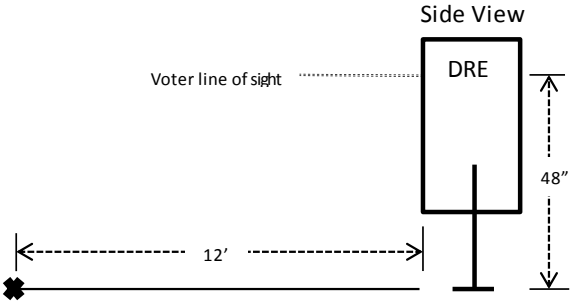
Judge of the Court of Common Pleas

Mary L.D aniel	42
Jack “Duke” Brodisky	40
Joanne Scholzert	31
Kerry jones	25
Write-In	13
Undervote	9
County Chief Executive	
Norman Powers	44
Micheal Santarcangelo	29
Write-In	4
Undervote	3
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
Commissioner Seat 1	
Stephen Harrick	13
George Fisk	6
Write-In	1
Undervote	0
Commissioner Seat 2	
Steve West	24
Tetty Rogiers	12
Write-In	2
Undervote	2
Commissioner Seat 3	
William Malicki	12
Arnold Wells	6
Write-In	1
Undervote	1
Statewide Referendum	
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

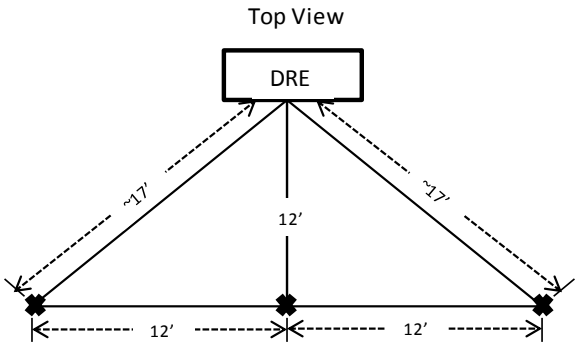
Test Case Identifier: 01 – 25 P.S. § 3031.7(1) Voter Secrecy (ADA Voter)	
PA ST 25 P.S. § 3031.7 Requirement:	*(1) Provides for voting in absolute secrecy and prevents any person from seeing or knowing for whom any voter, except one who has received or is receiving assistance as prescribed by law, has voted or is voting.*
Test Objective: To determine if a voters selections using an ADA input device can be observed during the act of voting or once a vote has been cast.	**Test Configuration:** Precinct tabulation device configured as 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 feet to the right side and the left side. The side distance observation points should be approximately 17 feet. See Step 1000 for a layout diagram. The ADA voter will be positioned in the center of the tabulation device with a site line of 4 feet. See Step 1001.
Test Equipment:	Standard 15+ foot tape measure
Special Procedural Requirements:	Two roles are required for this test case. An ADA Voter role and an Observer role. The ADA Voter will be positioned with a line of site at 48 inches. The observation must be made by an individual between the heights of 68 inches and 71 inches.
Assumptions:	An election is loaded on the device and the polls are open, ready for voting.

Step	Description
1000	Layout Diagram:  Verify all measurements. *Expected:* Center measurement is 12 feet and the side distance observation points are approximately 17 feet. *Actual:*
1001	ADA Voter Position:  Verify all measurements. *Expected:* Center measurement is 12 feet and the side distance observation points are approximately 17 feet with a

	voter line of sight at 48 inches. *Actual::*
1010	Observer Role - Activate a ballot for ADA voting. *Expected:* Ballot is presented and vote selections can be input. *Actual:*
1020	ADA Voter Role - Select the candidate corresponding to 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. ADA Voter's Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the upper most left hand position. All other selections are to be under voted. *Expected:* The Observer cannot determine the Voter's input selections. *Actual:*
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 voter's input from the right most position, the center position, and the left most position. ADA Voter's Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the upper most right hand position. All other selections are to be under voted. *Expected:* The Observer cannot determine the Voter's input selections. *Actual:*
1040	ADA Voter Role - Select the candidate corresponding to the lower most left hand position of the ballot presentation. Observer Role - Attempt to ascertain, both audibly and visually, the voters input from the right most position, the center position, and the left most position ADA Voters Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the lower most left hand position. All other selections are to be under voted. *Expected:* The Observer cannot determine the Voter's input selections.

	Actual:
1050	ADA Voter Role - Select the candidate corresponding to the lower most right hand position of the ballot presentation. Observer Role - - Attempt to ascertain, both audibly and visually, the voters input from the right most position, the center position, and the left most position ADA Voters Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the lower most right hand position. All other selections are to be under voted. *Expected:* The Observer cannot determine the Voter's input selections. *Actual:*
Criteria for Evaluation of the Test Results: The observer must not be able to determine the voter's selection from any observation position or any voter selection surface position.	

Test Case Identifier: 01 – 25 P.S. § 3031.7(1) Voter Secrecy (Regular Voter)	
PA ST 25 P.S. § 3031.7 **Requirement:**	*(1) Provides for voting in absolute secrecy and prevents any person from seeing or knowing for whom any voter, except one who has received or is receiving assistance as prescribed by law, has voted or is voting.*
Test Objective: To determine if a voter's selections can be observed during the act of voting, or once a vote has been cast.	**Test Configuration:** Precinct tabulation device configured as described for normal election day operation by Pennsylvania 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 Equipment:	Standard 15+ foot tape measure
Special Procedural 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 voting.

Step	Description
1000	Layout Diagram:  Verify all measurements. *Expected:* Center measurement is 12 feet and the side distance observation points are approximately 17 feet. *Actual:*
1010	Observer Role - Activate a ballot for regular voting. *Expected:* Ballot is presented and vote selections can be input. *Actual:*
1020	Voter Role - Select the candidate in the upper most left hand position of the ballot presentation. Observer Role - Attempt to ascertain, both audibly and visually, the voter's 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. *Expected:* The Observer cannot determine the Voter's input selections.

	Actual:
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 voter's input from the right most position, the center position, and the left most position Voter's Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the upper most right hand position. All other selections are to be under voted. *Expected:* The Observer cannot determine the Voter's input selections. *Actual:*
1040	Voter Role - Select the candidate in the lower most left hand position of the ballot presentation. Observer Role - Attempt to ascertain, both audibly and visually, the voters input from the right most position, the center position, and the left most position Voters Role - Use the supplied method to advance the ballot to a cast vote state. The only selection should be the lower most left hand position. All other selections are to be under voted. *Expected:* The Observer cannot determine the Voter's input selections. *Actual:*
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:*
Criteria for Evaluation of the Test Results: The observer must not be able to determine the voter's selection from any observation position or any voter selection surface position.	

Test Case Identifier: 02 – 25 P.S. § 3031.7(2) Selection of Candidates and Questions by Voter (Regular/ADA)	
PA ST 25 P.S. § 3031.7 Requirement:	*(2) Provides facilities for voting for such candidates as may be nominated and upon such questions as may be submitted.*
Test Objective: To determine if a voter has the ability to select candidates and questions.	**Test Configuration:** Precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.
Test Equipment:	None
Special Procedural Requirements:	None
Assumptions:	An election is loaded on the device and the polls are open, ready for voting.

Step	Description
1000	Activate a ballot for voting. *Expected:* The ballot is presented and vote selections can be input. *Actual:*
1010	Select the first candidate in the first partisan contest excluding a straight party contest. *Expected:* 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:*
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). *Expected:* 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:*
1030	Use the designated method to advance the ballot to the first "Question" contest. Select the "Yes" option in the contest. *Expected:* The precinct tabulation device advances to the first "Question" contest. Once selected the precinct tabulation device displays or provides an indication of a vote selection for the "Yes" option in the first "Question" contest. *Actual:*
1040	Use the designated method to advance the ballot to the second "Question" contest. Select the "No" option in the contest.

	Expected: The precinct tabulation device advances to the second "Question" contest. Once selected the precinct tabulation device displays or provides an indication of a vote selection for the "No" option in the second "Question" contest. *Actual:*
1050	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are displayed. Use the designated method to cast the voted selections. *Expected:* The precinct tabulation device advances to the "Ballot Review" screen. After review and ballot is cast successfully. *Actual:*
1060	Repeat steps 1000- 1050 from above using an ADA input device. *Expected:* Repeat 1000 _____ Repeat 1010 _____ Repeat 1020 _____ Repeat 1030 _____ Repeat 1040 _____ Repeat 1050 _____ *Actual:*
1070	Close the polls and print the closed polls report tape. *Expected:* The polls closed and a report is printed. *Actual:*
1080	Review the closed polls report to ensure all selections input above are recorded and reported correctly. *Expected:* The closed polls report presents the accumulated totals for the selections input above. *Actual:*
Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester.	

Test Case Identifier: 03 – 25 P.S. § 3031.7(3) Straight Party and Pennsylvania Method	
PA ST 25 P.S. § 3031.7 Requirements:	*(3) Permits each voter, at other than primary elections, to vote a straight political party ticket by one mark or act and, by one mark or act, to vote for all the candidates of one political party for presidential electors and, by one mark or act, to vote for all the candidates of one political party for every office to be voted for, and every such mark or act shall be equivalent to and shall be counted as a vote for every candidate of the political party so marked including its candidates for presidential electors, except with respect to those offices as to which the voter has registered a vote for individual candidates of the same or another political party or political body, in which case the automatic tabulating equipment shall credit the vote for that office only for the candidate individually so selected, notwithstanding the fact that the voter may not have individually voted for the full number of candidates for that office for which he was entitled to vote.*
Test Objective: To determine if the voting system supports straight party voting and the Pennsylvania Method.	**Test Configuration:** Precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.
Test Equipment:	None
Special Procedural Requirements:	None
Assumptions:	An election is loaded on the device and the polls are open, ready for voting.

Step	**Description**
1000	Activate a ballot for voting. *Expected:* The ballot is presented and vote selections can be input. *Actual:*
1010	Select the option for the first party selection of the straight party. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection for the first party selection in the straight party contest. *Actual:*
1020	Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contests for the indication of a voter selection for all partisan candidates associated with the first straight party selection. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection for all the partisan candidates in each contest associated with the first straight party selection. *Actual:*
1030	Use the designated method to advance through the remainder of the ballots advancing to the ballot review screen. Observe the selection in the ballot review observing only the partisan contests associated with the first straight party selections are present. Use the designated method to cast the voted ballot. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection for only the partisan contests associated with the first straight party selection. After review the ballot is cast successfully.

	Actual:
1040	Activate a ballot for voting. *Expected:* The ballot is presented and vote selections can be input. *Actual:*
1050	Select the option for the second party selection of the straight party. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection for the second party in the straight party contest. *Actual:*
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. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection for all the partisan candidates in each contest associated with the second straight party selection. *Actual:*
1070	Use the designated method to retreat through the ballot selections to the first "N of M" contest. Select the first partisan candidate that is not the party associated with the second straight party selection. Leave the remainder of the selections under voted. *Expected:* "N" candidates for the party of the second straight party selections should display or provide an indication of the non-selection. The selected candidate should be the only selection displayed or indicated. *Actual:*
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:*
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:*
1100	Activate a ballot for voting. *Expected:* The ballot is presented and vote selections can be input. *Actual:*
1110	Select the option for the first party selection of the straight party. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection for the first party in the straight party contest. *Actual:*
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. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection for all the partisan candidates in each contest associated with the first straight party selection. *Actual:*
1130	Use the designated method to retreat through the ballot selections to the first "N of M" contest. Select the first partisan candidate that is associated with the first straight party selection. Leave this contest and the remainder of the selections under voted. *Expected:* "N" candidates for the party of the first straight party selections should display or provide an indication of the non-selection. The selected candidate should be the only selection displayed or indicated. *Actual:*
1140	Use the designated method to advance through the remainder of the ballot advancing to the ballot review. Review the selections in the ballot review to verify that the partisan contests associated with the first straight party selections are present with the exception of the first "N of M" contest. Use the designated method to cast the voted ballot. *Expected:* The precinct tabulation device displays or indicates the selection for the partisan contests associated with the first straight party selection for all contests except the first "N of M" contest. The first "N of M" contest displays or indicates the selection of the second candidate that is associated with the first straight party selection and an under vote. After review the ballot is cast successfully.

	Actual:
1150	Repeat steps 1000- 1140 from above using an ADA input device. *Expected:* Repeat 1000 _____ Repeat 1010 _____ Repeat 1020 _____ Repeat 1030 _____ Repeat 1040 _____ Repeat 1050 _____ Repeat 1060 _____ Repeat 1070 _____ Repeat 1080 _____ Repeat 1090 _____ Repeat 1100 _____ Repeat 1110 _____ Repeat 1120 _____ Repeat 1130 _____ Repeat 1140 _____ *Actual:*
1160	Close the polls and print the closed polls report tape. Expected: The polls closed and a report is printed. Actual:
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:
Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The functionality of selecting a candidate of the same party or a candidate of a different party of the straight party selection registers a vote for that candidate and de-selects all candidates for the straight party vote for that contest.	

Test Case Identifier: 04 – 25 P.S. § 3031.7(4) Straight Party and Write-In	
PA ST 25 P.S. § 3031.7 Requirements:	*(4) Permits each voter, at other than primary elections, to vote a ticket selected from the nominees of any and all political parties, from the nominees of any and all political bodies, and from any persons whose names are not in nomination and do not appear upon the official ballot.*
Test Objective: To determine if the voting system supports straight party voting and write-in.	**Test Configuration:** Precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.
Test Equipment:	None
Special Procedural Requirements:	None
Assumptions:	An election is loaded on the device and the polls are open, ready for voting.

Step	Description
1000	Activate a ballot for voting. *Expected:* The ballot is presented and vote selections can be input. *Actual:*
1010	Select the option for the first party selection of the straight party. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection for the first party selection in the straight party contest. *Actual:*
1020	Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contests for a display or indication of a voter selection for all partisan candidates associated with the first straight party selection. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection for all the partisan candidates in each contest associated with the first straight party selection. *Actual:*
1030	Use the designated method to advance through the remainder of the ballot advancing to the ballot review screen. Observe the selection in the ballot review observing only the partisan contests associated with the first straight party selections are present. Use the designated method to cast the voted ballot. *Expected:* The precinct tabulation device displays or provides an indication of the selection for only the partisan contests associated with the first straight party selection. After review the ballot is cast successfully. *Actual:*
1040	Activate a ballot for regular voting. *Expected:* The ballot is presented and vote selections can be input.

	Actual:
1050	Select the option for the first party selection of the straight party. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection associated with the first party selection in the straight party contest. *Actual:*
1060	Use the designated method to advance to the first partisan contest. Select the write-in option. Input John Doe as the write-in name. *Expected:* The precinct tabulation advances to the first partisan contest and allows the input of the "Write-In" candidate John Doe. *Actual:*
1070	Use the designated method to advance to the ballot review screen. Observe the selections associated with the first straight party selection with the exception of the first partisan contest. Use the designated method to cast the voted ballot. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection associated with the first party selection in the straight party contest with the exception of the first partisan contest which should indicate the write-in input of John Doe. *Actual:*
1080	Activate a ballot for regular voting. *Expected:* The ballot is presented and vote selections can be input. *Actual:*
1090	Select the option for the first party selection of the straight party. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection associated with the first party selection in the straight party contest. *Actual:*
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. *Expected:* The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication. *.Actual:*
1110	Repeat steps 1000- 1090 from above using an ADA input device.

	Expected: Repeat 1000 _____ Repeat 1010 _____ Repeat 1020 _____ Repeat 1030 _____ Repeat 1040 _____ Repeat 1050 _____ Repeat 1060 _____ Repeat 1070 _____ Repeat 1080 _____ Repeat 1090 _____ Repeat 1100 _____ Repeat 1110 _____ *Actual:*
1120	Close the polls and print the closed polls report tape. Expected: The polls closed and a report is printed. Actual:
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:
Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The functionality of selecting a write-in candidate functions with a straight party selection.	

Test Case Identifier: 05 – 25 P.S. § 3031.7(5) Selection of Candidate and Write-in	
PA ST 25 P.S. § 3031.7 Requirements:	*(5) Permits each voter to vote for any person and any office for whom and for which he is lawfully entitled to vote, whether or not the name of such person appears upon the ballot as a candidate for nomination or election.*
Test Objective: To determine if the voting system supports the selection of a candidate and a write-in candidate.	**Test Configuration:** Precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.
Test Equipment:	None
Special Procedural Requirements:	None
Assumptions:	An election is loaded on the device and the polls are open, ready for voting.

Step	Description
1000	Activate a ballot for voting. *Expected:* The ballot is presented and vote selections can be input. *Actual:*
1010	Select the option for the first candidate in the first partisan contest. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection for the first candidate selection in the first partisan contest. *Actual:*
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. *Expected:* The precinct tabulation device displays or provides an indication of the selection for only the first candidate selection in first partisan contests. After review the ballot is cast successfully. *Actual:*
1030	Activate a ballot for voting. *Expected:* The ballot is presented and vote selections can be input. *Actual:*
1040	Select the option for a write-in candidate in the first partisan contest. Use the designed method to input "John Doe." *Expected:* The precinct tabulation device displays or provides an indication of a vote selection for a write-in candidate. *Actual:*

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. *Expected:* The precinct tabulation device displays or provides an indication of the selection for only the write-in candidate "John Doe" in first partisan contests. After review the ballot is cast successfully. *Actual:*
1060	*Activate a ballot for voting.* *Expected: The ballot is presented and vote selections can be input.* *Actual:*
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.* *Expected: 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:*
1080	Repeat steps 1000- 1070 from above using an ADA input device. *Expected:* Repeat 1000 _____ Repeat 1010 _____ Repeat 1020 _____ Repeat 1030 _____ Repeat 1040 _____ Repeat 1050 _____ Repeat 1060 _____ Repeat 1070 _____

	Actual:
1090	Close the polls and print the closed polls report tape. *Expected:* The polls closed and a report is printed. *Actual:*
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly. *Expected:* The closed polls report presents the accumulated totals for the selections input above. *Actual:*
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 Identifier: 07– 25 P.S. § 3031.7(7) Attempt to Over Vote Contests and Questions (Regular/ADA)	
PA ST 25 P.S. § 3031.7 Requirements:	*(7) If it is of a type that registers the vote electronically, the voting system 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 voting device allows over voting on contests and questions.	**Test Configuration:** Precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.
Equipment:	None
Special Procedural Requirements:	None
Assumptions:	An election is loaded on the device and the polls are open, ready for voting.

Step	Description
1000	Activate a ballot for voting. *Expected:* The ballot is presented and vote selections can be input. *Actual:*
1010	Select the first candidate in the first partisan "1 of 1" contest excluding a straight party contest. *Expected:* The precinct tabulation device displays or provides an indication of a vote selection for the first candidate in the first partisan "1 of 1" contest excluding a straight party contest. *Actual:*
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. *Expected:* The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication. *Actual:*
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 might disallow the selection and not display any communication. *Actual:*
1040	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). *Expected:* 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:
1050	Attempt to select the "N +1" candidate in the first "N of M" contest ensure the contest is the same contest as voted in step 1040. Observe the action of attempting to place an over vote. *Expected:* The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication. *Actual:*
1060	Use the designated method to advance the ballot to the first "Question" contest. Select the "Yes" option in the contest. *Expected:* The precinct tabulation device advances to the first "Question" contest. Once selected the precinct tabulation device displays or provides an indication of a vote for the "Yes" option in the first "Question" contest. *Actual:*
1070	Attempt to select the "No" option in the first "Question" contest ensure the contest is the same contest as voted in step 1060. Observe the action of attempting to place an over vote. *Expected:* The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication. *Actual:*
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. *Expected:* The precinct tabulation device advances to the "Ballot Review" screen. After review and ballot is cast successfully. *Actual:*
1090	Repeat steps 1000- 1080 from above using an ADA input device. *Expected:* Repeat 1000 _____ Repeat 1010 _____ Repeat 1020 _____ Repeat 1030 _____ Repeat 1040 _____ Repeat 1050 _____ Repeat 1060 _____ Repeat 1070 _____ Repeat 1080 _____

	Actual:
1100	Close the polls and print the closed polls report tape. *Expected:* The polls closed and a report is printed. *Actual:*
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly. *Expected:* The closed polls report presents the accumulated totals for the selections input above. *Actual:*
Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The attempts to select more persons than the vote for and any question more than once are unsuccessful.	

Test Case Identifier: 10 – 25 P.S. § 3031.7(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.*
Test Objective: To determine if the voting device allows the voter to review the selections and change a vote selection before casting of the ballot.	**Test Configuration:** Precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.
Test Equipment:	None
Special Procedural Requirements:	None
Assumptions:	An election is loaded on the device and the polls are open, ready for voting.

Step	**Description**
1000	Activate a ballot for voting. *Expected:* The ballot is presented and vote selections can be input. *Actual:*
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. *Expected:* The precinct tabulation device allow for the navigation and the voting inputs to be selected as described above. *Actual:*
1020	Use the designated method to advance the "Ballot Review." Observe the "Ballot Review" to see if the above selections are indicated. *Expected:* The precinct tabulation device advances to the "Ballot Review" screen. The vote selections can be verified. *Actual:*
1030	Use the designated method to retract to the first partisan "1 of 1" contest excluding the straight party contest. *Expected:* The precinct tabulation device navigates to the first partisan "1 of 1" contest excluding the straight party contest. *Actual:*

1040	Deselect the first candidate selection and select the second candidate. *Expected:* The precinct tabulation device indicates the de-selection of the first candidate and the select of the second candidate. *Actual:*
1050	Use the designated method to advance to the first "Question" contest. De-select the "Yes" option and select the "No" option. *Expected:* The precinct tabulation device navigates to the first "Question" contest and provides an indication of the de-selection of the "Yes" option and a selection of the "No" option. *Actual:*
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. *Expected:* The precinct tabulation device advances to the "Ballot Review" screen. After review and ballot is cast successfully. *Actual:*
1070	Repeat steps 1000- 1060 from above using an ADA input device. *Expected:* Repeat 1000 _____ Repeat 1010 _____ Repeat 1020 _____ Repeat 1030 _____ Repeat 1040 _____ Repeat 1050 _____ Repeat 1060 _____ *Actual:*
1080	Close the polls and print the closed polls report tape. *Expected:* The polls closed and a report is printed. *Actual:*

1090	Review the closed polls report to ensure all selections input above are recorded and reported correctly. *Expected:* The closed polls report presents the accumulated totals for the selections input above. *Actual:*
Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The voter input can be changed by navigating through the ballot after a ballot has been reviewed.	

Test Case Identifier: 16 – 25 P.S. § 3031.7(16) Public Counter, No Reopening of Polls, Media Security with Tamper Proof Locks and Zero Proof and Tally Reports.	
PA ST 25 P.S. § 3031.7 Requirements:	*(16) If the voting system is of a type which provides for the computation and tabulation of votes at the district level, the district component of the automatic tabulating equipment shall include the following mechanisms or capabilities:* *(i) A public counter, the register of which is visible from the outside of the automatic tabulating equipment component into which the ballots are entered, which shall show during any period of operation the total number of ballots entered for computation and tabulation.* *(ii) A lock, or locks, by the use of which all operation of the tabulation element of the automatic tabulating equipment is absolutely prevented immediately after the polls are closed or where the tabulation of votes is completed.* *(iii) It shall be so constructed and controlled that, during the progress of voting, it shall preclude every person from seeing or knowing the number of votes theretofore registered for any candidate or question; and it shall preclude every person from tampering with the tabulating element.* *(iv)If the number of choices recorded for any office or on any question exceeds the number for which the voter is entitled to vote, it shall reject all choices recorded on the ballot for that office or question, provided, that if used during the period of voting it may also have the capacity to indicate to a voter that he has improperly voted for more candidates for any office than he is entitled to vote for, and in such case it shall have the capacity to permit the voter to mark a new ballot or to forego his opportunity to make such correction.* *(v) It shall be equipped with an element which generates a printed record at the beginning of its operation which verifies that the tabulating elements for each candidate position and each question and the public counter are all set to zero and with an element which generates a printed record at the finish of its operation of the total number of voters whose ballots have been tabulated, the total number of votes cast for each candidate whose name appears on the ballot, and the total number of votes cast for, or against, any question appearing on the ballot.*
Test Objective: To determine if the voting device has a public counter, does not allow the reopening of the polls, and supplies a zero proof and tally report.	**Test Configuration:** Precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer. This includes all security locks and seals.
Test Equipment:	None
Special Procedural Requirements:	None
Assumptions:	The election media is installed but the polls have not been opened.

Step	Description
1000	Ensure media is loaded but the polls have not been opened. Use the designated method to open polls. If a response is needed to print "Zero Proof" report, select this option. *Expected:* The precinct tabulation device opens the polls and prints a "Zero Proof" report. *Actual:*
1010	Activate a ballot for voting. *Expected:* The ballot is presented and vote selections can be input. *Actual:*
1020	

	Use the designated method to navigate to the straight party contest. Select the first selection in the straight party contest. *Expected:* 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:*
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. *Expected:* The precinct tabulation device navigates to the "Ballot Review" screen. The public counter is visible and the value is 0. *Actual:*
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. *Expected:* The precinct tabulation device successfully cast the ballot and the public counter is incremented. If the ballot was not cast successfully the test is halted. *Actual:*
1050	Close the polls and print the closed polls report tape. *Expected:* The polls closed and a report is printed. *Actual:*
1060	Use the designated method to attempt to reopen the polls. *Expected:* The polls cannot be reopened. *Actual:*
1070	Place lock on precinct tabulation device per Pennsylvania Procedures to ensure all operation of the tabulation element is prevented. *Expected:* The precinct tabulation device can by secured so that all operation of the tabulation element is prevented. *Actual:*
1070	Review the closed polls report to ensure all selections input above are recorded and reported correctly.

	Expected: The closed polls report presents the accumulated totals for the selections input above. *Actual:*

Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The voting device is able to produce a "Zero Proof" and "Tally Report." The voting device has a visible public counter and the counter increments correctly.

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

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

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

Test Method:
The method for testing these requirements is defined as follows:

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

Two elections will be utilized to perform System Integration Testing:

- PA Certification General Election
- PA Certification Closed Primary Election

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

- Election definition and ballot layout coded prior to test
- Print pre-election report for ballot layout, precinct summary, and election summary
- Load election media
- Install election onto the precinct tabulation device
- Open polls and print zero proof report

• Vote pre-defined voting pattern • Closed polls and print results tapes • Print audit logs • Perform a 10% statistical sample • Harvest permanent physical record • 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.

Test Case Identifier: 12 – 25 P.S. § 3031.7(12) Penetration Analysis	
PA ST 25 P.S. § 3031.7 Requirements:	*(12) Provides acceptable ballot security procedures and impoundment of ballots to prevent tampering with or substitution of any ballots or ballot cards.*
Test Objective: This area of testing will focus on the current documented procedures and configuration to ensure that the physical and access secure measures provide a determined level of security. *Depending on the scope of this project this may be performed by a third-party expert.*	
Test Configuration: The voting system will be configured as would be for a polling place with all security precautions in place.	
Test Method: The method for testing these requirements is defined as follows: Test steps will be followed to evaluate the physical and access controls and procedures in place for the storage of voted ballots. This test will be performed by evaluating the system to ensure that all access areas and seals and/or locks provide adequate security from external access. The tester will: • check all seal and/or locks and attempt to open the system • verify that the ballot storage device is secure by attempting to insert and retrieve ballots without removing any seals and/or locks • verify that any needed supplies can be accessed by the poll worker without allowing access to the ballots or internal components of the voting system • verify that the system counter cannot be reset by any unauthorized person at any unauthorized point • attempt to bypass the security environment by various methods such as disabling the printer, removing power, and any other means to try and compromise the votes • exercise verification of password security management at all levels (operating system, application and component)	
Criteria for Evaluation of the Test Results: All intended access controls are in place and are sufficient.	

Comments:
Tester Approval: _____ Date: _____ Test Witness: _____

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 - _____

Document II - _____

Document III - _____

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 -_____

Report Title, Version and Date -_____

Report Title, Version and Date -_____

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 - _____

Section - _____

Page - _____

Paragraphs - _____

Review of Accuracy Test

Report Title - _____

Section - _____

Page - _____

Paragraphs - _____

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 - _____

Section - _____

Page - _____

Paragraphs - _____

25 P.S. § 3031.7 Requirement -

(14) Is safely transportable.

Review of Hardware Environmental Tests

Report Title - _____

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 - _____

Section - _____

Page - _____

Paragraphs - _____

_____ _____

Reviewers Signature **Date Completed**

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 Identifier: Cardwriter Functional Verification (General Election)	
Functional Requirements:	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: To determine if the card writer functionality of the Express Poll 5000 can properly write smart cards for voter access for one time use.	**Test Configuration:** Precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer. A TSx unit will be loaded with all precincts from the "Pennsylvania Certification General Election."
Test Equipment:	Express Poll 5000, 10 voter access cards, TSx units
Special Procedural Requirements:	None
Assumptions:	None

Step	Description
1000	From the Express Poll unit encode two voter access cards for each precinct in the General Election. *Expected:* The voter access cards can be programmed. *Actual:*
1010	Insert the first 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:*
1020	Use the designated method to advance the through the ballot. Observe the contests and candidates for Precinct 1 ballot style are displayed *Expected:* All contests and candidates are accurately displayed. *Actual:*
1030	Use the designated method to navigate to the first contest and select the first candidate. *Expected:* The TSx navigates to the first contest and the selection for the first candidate is input. *Actual:*
1040	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.

	Expected: The precinct tabulation device advances to the "Ballot Review" screen. After review and ballot is cast successfully. *Actual:*
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. *Expected:* The TSx should give an indication that the voter access card has been used. *Actual:*
1060	Insert the second 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:*
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. *Expected:* Every candidate can be input as described. *Actual:*
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. *Expected:* The precinct tabulation device advances to the "Ballot Review" screen. After review and ballot is cast successfully. *Actual:*
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct. *Expected:* Repeat 1010 _____ Repeat 1020 _____ Repeat 1030 _____ Repeat 1040 _____ Repeat 1060 _____ Repeat 1070 _____ Repeat 1080 _____

	Actual:
1080	Close the polls and print the closed polls report tape. *Expected:* The polls closed and a report is printed. *Actual:*
1090	Review the closed polls report to ensure all selections input above are recorded and reported correctly. *Expected:* The closed polls report presents the accumulated totals for the selections input above. *Actual:*
Criteria for Evaluation of the Test Results: 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 Requirements:	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 and party affiliation to properly be retrieved and presented to a voter in a Closed Primary Election
Test Objective: To determine if the card writer functionality of the Express Poll 5000 can properly write smart cards for voter access for one time use.	**Test Configuration:** Precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer. A TSx unit will be loaded with all precincts and parties from the "Pennsylvania Certification Closed Primary Election."
Test Equipment:	Express Poll 5000, 10 voter access cards, TSx units
Special Procedural Requirements:	None
Assumptions:	None

Step	Description
1000	From the Express Poll unit encode one voter access cards for each party and each precinct in the Closed Primary Election. *Expected:* The voter access cards can be programmed. *Actual:*
1010	Insert the Democratic voter access card for Precinct 1 into the TSx. *Expected:* The TSx accepts the voter access card and displays the ballot style for Democratic party for Precinct 1. *Actual:*
1020	Use the designated method to advance the through the ballot. Observe the contests and candidates for Democratic party for Precinct 1 ballot style are displayed *Expected:* All contests and candidates are accurately displayed. *Actual:*
1030	Use the designated method to navigate to the first contest and select the first candidate. *Expected:* The TSx navigates to the first contest and the selection for the first candidate is input. *Actual:*
1040	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.

	Expected: The precinct tabulation device advances to the "Ballot Review" screen. After review and ballot is cast successfully. *Actual:*
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. *Expected:* The TSx should give an indication that the voter access card has been used. *Actual:*
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:*
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. *Expected:* Every candidate can be input as described. *Actual:*
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. *Expected:* The precinct tabulation device advances to the "Ballot Review" screen. After review and ballot is cast successfully. *Actual:*
1090	Repeat steps 1010- 1080 excluding step 1050 for each precinct. *Expected:* Repeat 1010 _____ Repeat 1020 _____ Repeat 1030 _____ Repeat 1040 _____ Repeat 1060 _____ Repeat 1070 _____ Repeat 1080 _____ *Actual:*

1080	Close the polls and print the closed polls report tape. *Expected:* The polls closed and a report is printed. *Actual:*
1090	Review the closed polls report to ensure all selections input above are recorded and reported correctly. *Expected:* The closed polls report presents the accumulated totals for the selections input above. *Actual:*
Criteria for Evaluation of the Test Results: 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.	