

COMMONWEALTH OF PENNSYLVANIA

TEST PROTOCOL

FOR

EXAMINATION OF THE

ELECTION SYSTEMS & SOFTWARE (ES&S) EVS 5.0.0.0

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1.0 INTRODUCTION

The primary purpose of this examination is to confirm that the Election Systems and Software (ES&S) EVS 5.0.0.0 voting system meets the requirements of Article XI-A of the Pennsylvania Election Code, sections 1101-A to 1122-A, 25 P.S. §§ 3031.1 – 3031.22. This 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 examination will commence on August 26, 2013 at the following location:

Keystone Building Training Room B 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

"COTS" - Commercial Off-The-Shelf

"Department" - Pennsylvania Department of State

"DRE" - Direct Recording Electronic

"EMS" – Election Management System

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

"GEMS" – ES&S election management system

"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

ES&S initiated the certification evaluation by a letter to the Pennsylvania Department of State on June 18, 2013. In this letter, ES&S requested certification of the EVS 5.0.0.0 as a new voting system to be certified for use in the Commonwealth of Pennsylvania. On May 16, 2013 the Election Assistance Commission (EAC) issued their Grant of Certification of the EVS 5.0.0.0, signifying successful completion of conformance testing to the 2005 *EAC Voluntary Voting System Guidelines (VVSG)*.

The EVS 5.0.0.0 voting system includes the following components:

• ElectionWare

ElectionWare is the Election Management System (EMS) software for defining contents, candidates and ballot formats and performing results post-processing.

• DS200 Precinct Ballot Tabulator

The DS200 is the precinct ballot tabulator component of the EVS 5.0.0.0 voting system.

• ES&S AutoMARK

The ES&S AutoMARK is a ballot marking system that supports audio, touchscreen and tactile keypad inputs for ballot marking.

• DS850 Central Ballot Scanner

The DS850 is the central ballot scanner component of the EVS 5.0.0.0 voting system.

• Election Reporting Manager

Election Reporting Manager (ERM) is the software used for results consolidation and report generation.

This Test Protocol was developed to ascertain whether the components comply 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.

Component Name	Version	Unique Identifier (digital signature or hash value)				
Election Management System (EMS)						
ElectionWare	4.1.0.0	TBD				
Election Reporting Manager (ERM)	8.6.0.0	TBD				
Removable Media Service	1.4.0.0	TBD				
Event Log Service	1.5.0.0	TBD				
VAT Previewer	1.8.1.0	TBD				
	ES&S Tabu	lators				
DS200 Precinct Tabulator	2.7.0.0	TBD				
DS850 Central Tabulator	2.4.0.0	TBD				
V	Voter Assist Terminal (VAT)					
AutoMARK	1.8.1.0	TBD				

Table 2.1 Software

2.2 Hardware

This subsection contains a listing of the hardware being evaluated.

Table 2.2 Hardware

Component Name	Model/Version Number	Description
DS200	1.2	precinct ballot tabulator
DS850	1.0	central ballot scanner for tabulation of mail-in ballots, absentee ballots or Election Day ballots
AutoMARK VAT	A100, A200	Ballot accessible marking system that supports audio, touchscreen, and tactile keypad inputs for ballot marking

2.3 Peripherals

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

Table 2.3 Peripherals

Part Name	Model Number	Revision Number	Description

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 voting system manufacturer must provide the EMS to be certified loaded with the closed primary and general election definitions (Appendix A). These election definitions are the ballot configurations that will be used throughout the examination. The manufacturer must provide a DS200 precinct tabulation device, a DS850 central ballot scanner, an AutoMARK VAT, and an EMS to be examined. The manufacturer must be prepared to load the firmware/software for each 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. The manufacturer is responsible for providing the Department and the Examiner with technical staff to support the examination.

3.0 TEST MATERIALS

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

3.1 Technical Data Package

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

Document Name	Version/Document Number	Revision	Issue Date
1: System	Overview		
System Overview ES&S Voting System 5.0.0.0	N/A	15.0	2.13.2013
ES&S Voting System Functionality Description ES&S Voting System 5.0.0.0	N/A	8.0	2.28.2013
2: Operation	on Manuals		
ES&S AutoMARK Operator Guide	1.8	5.0	2.20.2013
DS200 Operator Guide, Hardware 1.2, Firmware 2.7	10.1		2.7.2013
ES&S DS850 Operator's Guide v. 2.4	11.1		1.30.2013
ES&S ElectionWare 4.1 Volume I: Administrator Guide	4.8		2.20.2013
ES&S ElectionWare 4.1 Volume II: Define Operator Guide	4.0		2.28.2013
ES&S ElectionWare 4.1 Volume III: Design Operator Guide	3.2		2.21.2012
ES&S ElectionWare 4.1 Volume IV: Deliver Operator Guide	5.6		2.15.2013

Table 3.1 Documentation

ES&S ElectionWare 4.1 Volume V: Results User's Guide	1.5		2.13.2013
ES&S EVS Event Logging Service System	1.0		10.26.2012
Operations Procedures, Event Log 1.5	1.0		10.20.2012
ES&S Election Reporting Manager User Guide	13.1	8.6	2.13.2013
Network Configuration Guide		2.0	2.15.2012
ES&S Voting System 5.0.0.0		2.0	2.13.2012
3: Tra	uning		
ES&S Standards and Procedures		1.0	12.18.2012
Personnel Deployment and Training Program		1.0	12.10.2012
4: Setup and Rep	air Maintenance		
ES&S AutoMARK Maintenance Guide	1.8	4.0	1.31.2013
DS200 Maintenance Guide, Hardware 1.2,	3.1		1.15.2013
Firmware 2.7			
ES&S DS850 Maintenance Guide v.2.4	3.1		8.24.2013
5: System	· · · · · · · · · · · · · · · · · · ·		
AutoMARK System Security Specifications	AQS-18-5002-001-S	6	2.13.2013
Voting System Security Specification		3.1	2.12.2013
ES&S Voting System 5.0.0.0		5.1	2.12.2013
Hardening Procedures for the Election			
Management System PC		3.2	11.27.2012
ES&S Voting System 5.0.0.0			
Voting System Security Best Practices for			
Physically Securing ES&S Equipment		2.0	1.30.2013
ES&S Voting System 5.0.0.0			

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	Report No.	Issue Date
Wyle Laboratories Test Report:		
"National Certification Test Report for Certification of the Election	T59087.01-01	May 16, 2013
Systems and Software EVS 5.0.0.0 Voting Systems, EAC	139087.01-01	May 10, 2015
Certification Number – ESSEVS5000, Revision B"		

3.3 Previous Test Results

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

This EVS 5.0.0.0 is a new voting system; therefore, there are no previous test results relevant to the examination or the system being evaluated.

4.0 TEST SPECIFICATIONS

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

The 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 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 each device, submitted to the Department from the trusted source. The manufacturer will load the firmware/software on to the required media for installation onto each device and install the firmware/software onto each device before commencement of the re-examination. Once each 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 examination is suspended, each device 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 each device.

5.0 TEST PROCEDURES

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

The test cases for this examination are contained in Appendix B of this Test Protocol. They can be executed independently and in any order.

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 three main areas for execution: (1) Targeted Functionality; (2) System Integration; and (3) Penetration Analysis. All areas of testing will be performed on-site during the examination. The test sequence for this examination will be as follows:

Targeted Functionality Test Cases:

- Test Case Identifier: 01 1107-A(1), 25 P.S. § 3031.7(1) Voter Secrecy (Regular Voter)
- Test Case Identifier: 01 1107-A(1), 25 P.S. § 3031.7(1) Voter Secrecy (ADA Voter)
- Test Case Identifier: 02 1107-A(2), 25 P.S. § 3031.7(2) Selection of Candidates and Questions by Voter (Regular/ADA)
- Test Case Identifier: 03 1107-A(3), 25 P.S. § 3031.7(3) Straight Party and Pennsylvania Method
- Test Case Identifier: 04 1107-A(4), 25 P.S. § 3031.7(4) Straight Party and Write-In
- Test Case Identifier: 05 1107-A(5), 25 P.S. § 3031.7(5) Selection of Candidate and Write-in

- Test Case Identifier: 07 1107-A(7), 25 P.S. § 3031.7(7) Attempt to Over Vote Contests and Questions (Regular/ADA)
- Test Case Identifier: 10 1107-A(10), 25 P.S. § 3031.7(10) Ballot Review and Change (Regular/ADA)
- Test Case Identifier: 16 1107-A(16), 25 P.S. § 3031.7(16) Public Counter, No Reopening of Polls, Media Security with Tamper Proof Locks and Zero Proof and Tally Reports

System Integration Test Cases:

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

Penetration Analysis Test Cases:

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

6.0 TEST DATA

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

The election definitions being used for this 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 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.

ATTACHMENT 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	
Pre	sident of the United Sta	ates	Pr	esident of the United St	ates	
	Vote for One			Vote for One		
James Collins			Barry Josey			
Alexander P. Bicket			Calvin Marino			
Carol Koethen			Write-In			
Write-In	Write-In					
	United States Senator Vote for One		United States Senator Vote for One			
Bob Ford Allegheny Co	Bob Ford Allegheny County			Oscar Draper Cumberland County		
Colby Lincoln Delaware County			Carter McGaw Philadelphia County			
Write-In	Write-In			Write-In		
5 th Di	Representative in Congress Representative in 5 th District Congress			tive in Congress District	Represent ative in	
Vote fe	or One	10 th District	Vote	e for One	Congress	

Ben Baker	Vote for One	Barbara Barret Hicks Montgomery County	10 th District Vote for
Allegheny County	Cheryl Simon York County		One
Write-In	Lois Koss	Clinton Testo Centre County	William
	Erie County		Sullivan
	Write-In	Write-In	Butler
			County
			Write-In
Governor		Governor	
Vote for One		Vote for One	
Dean Lindsey Allegheny County		Charles Jasen Montgomery County	
Don Etter Allegheny County		Shirley Henning Luzerne County	
Joe Carlton		Write-In	
Washington County			
Edwin Lewis Lancaster County			
Samuel Lawton Bucks County			
Write-In			
Lieutenant Governor Vote for One		Lieutenant Governor Vote for One	
Scott Montes Berks County		Sherman R. Bucher Philadelphia County	
-			
Saul Currier Lehigh County		Richard V. Suits Cambria County	
Arnold Krill		Tabathia Song	
Lycoming County		Allegheny County	
Write-In		Kenneth Interlicchio Philadelphia County	
		Write-In	
Representative in the General Assembly	Representative in	Representative in the General Assembly	Represent
83 rd District	the General	83 rd District	ative in the
Vote for One	Assembly 84 th District	Vote for One	General Assembly
	Vote for One		84 th
Harry Rider	Peter Valle	R. J. Abbott	District Vote for
Cascade	Muncy	Shrewsbury	One
Robert Tyrell McNett	Write-In	Peter F. Saxton Willamsport	Neil Carey
			ewis
Write-In		Write-In	Saul Currie
			dred E
			Write-In

	Vote Not More Than Four
Gloria Dillion Heather Heidelbaugh Herbert Devine	Vincent Seymour (M) Committed to Barry Josey
George A. Fisk	
Doris Shiddles Andre Ninia Brian Getz	Toni Hamilton (F) Committed to Calvin Marino
Chad Snow Diane Rubin Elizabeth Piazza	Sam Patel (M) Committed to Barry Josey
Write-In Write-In	Robert Rocco (M) Committed to Calvin Marino
Write-In	Renee Cohn Jubelrier (F) Committed to Calvin Marino
	Morton Steele (M) Committed to Calvin Marino
	Mary Burke (F) Committed to Barry Josey
	Nyda E. Hambin (F) Committed to Barry Josey
	Write-In Write-In Write-In Write-In
Judge of the Superior Court Vote for One	Judge of the Superior Court Vote for One
Richard Maxian Philadelphia County	Linda Gapp Cumberland County
Marjorie Hall Delaware County	Patricia Smallmon Allegheny County
Robert L. Linkey Bucks County	Write-In
Write-In	
Judge of the Commonwealth Court Vote for One	Judge of the Commonwealth Court Vote for One
Chris Carpenter Montgomery County	Eugene Ruff Washington County
Write-In	Lewis Tese Luzerne County
	Write-In
Judge of the Court of Common Pleas Vote for Not More Than Two	Judge of the Court of Common Pleas Vote for Not More Than Two
Mary L. Daniel Armstrong	Joanne Shollzert Williamsport
John Roy Clinton	Kerry Jones <i>Williamsport</i>
Jack "Duke" Brodisky <i>McNett</i>	Steven Miller Lewis
Jon Young	Shirley Henning

Muncy			Mill Creek			
Vic Stabile			Write-In			
Gamble			Write-In			
Write-In						
Write-In						
	County Chief Executive	9	Cou	nty Chief Executive		
	Four Year Term Vote for One			Four Year Term Vote for One		
Norman Powers <i>Williamspo</i>	rt		Micheal Santarcangelo Fairfield			
Sandra Reilly <i>McNett</i>			Charles Place <i>Gamble</i>			
Write-In			Write-In			
	School Director			School Director		
,	Region 6 Four Year Term Vote for Not More Than Ty	wo		Region 6 Four Year Term or Not More Than Two		
Gerald Danson			Douglas Stone			
Greg Ortiz			Gerald Danson			
Shlomo Archibald			Greg Ortiz			
Delores DeVan			Shlomo Archibald			
Write-In			Delores DeVan			
Write-In			Write-In			
			Write-In			
Commissioner Seat 1	Commissioner Seat 2	Commissioner Seat 3	Commissioner Seat 1	Commissioner Seat 2	Commissio	
Four Year Term Vote for One	Four Year Term Vote for One	Four Year Term Vote for One	Four Year Term Vote for One	Four Year Term Vote for One	ner Seat 3 Four Year	
Stephen Harrick	Steve West	William Malicki	George Fisk	Tetty Rogiers	Term Vote for	
Write-In	Write-In	Gary Klemann	Write-In	Write-In	One	
		Write-In			Arnold Wells	
					Write-In	
		Referende	um A			
		Bond Is				
			rail passenger and freight			
shall section two of c in the amount of two	hapter one hundred eighte hundred fifty million dollars	een of the laws of ninete s for capital facilities be	een hundred seventy-four, approved?	, authorizing the creatior	of a state debt	
Yes						
No						

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			Presidente de los Estados Unidos Vote por uno			
James Collins			Barry Josey			
Alexander P. Bicket			Calvin Marino			
Carol Koethen			Por escrito			
Por escrito						
Ser	nador de los Estados U Vote por uno	nidos	Senac	lor de los Estados Unide Vote por uno	os	
Bob Ford <i>Condado d</i>	e Allegheny		Oscar Draper <i>Condado de</i>	Cumberland		
Colby Lincoln Condado de	e Delaware		Carter McGaw <i>Condado de</i>	Filadelfia		
Por escrito			Por escrito			
5° D Vote Ben Baker	e en el Congreso vistrito por uno e Allegheny	Representante en el Congreso 10.º Distrito Vote por uno Cheryl Simon <i>Condado de</i>	5° C Vote Barbara Barret Hicks	e en el Congreso Distrito por uno Montgomery	Representan e en el Congreso 10.º Distrito Vote por uno William	
Por escrito		York Lois Koss Condado de Erie	Clinton Testo <i>Condado Ce</i> Por escrito	entre	Condado de Butler	
		Por escrito			Por escrito	
	Gobernador Vote por uno			Gobernador Vote por uno		
Dean Lindsey Condado de	e Allegheny		Charles Jasen Condado de	Montgomery		
Don Etter <i>Condado de</i>	e Allegheny		Shirley Henning Condado de	Luzerne		
Joe Carlton <i>Condado d</i>	e Washington		Por escrito			
Edwin Lewis <i>Condado d</i> e	e Lancaster					
Samuel Lawton Condado de	e Bucks.					
Por escrito						
Vicegobergador Vote por uno			Vicegobergador Vote por uno			
Scott Montes Condado de	e Berks		Sherman R. Bucher <i>Condado de</i>	Filadelfia		
Saul Currier			Richard V. Suits			

Condado de Lehigh		Condado de Cambria	
Arnold Krill Condado de Lycoming		Tabathia Song Condado de Allegheny	
Por escrito		Kenneth Interlicchio Condado de Filadelfia	
		Por escrito	
Representante en la Asamblea General 83.º Distrito Vote por uno	Representante en la Asamblea General 84.º Distrito Vote por uno	Representante en la Asamblea General 83.º Distrito Vote por uno	Representant e en la Asamblea General 84.° Distrito
Harry Rider <i>Cascade</i>	Peter Valle Muncy	R. J. Abbott Shrewsbury	Vote por uno Neil Carey
Robert Tyrell <i>McNett</i>	Por escrito	Peter F. Saxton <i>Willamsport</i>	s Saul Currier
Por escrito		Por escrito	Eldr ed
Delegado a la convención naciona No vote por no más de tr 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	I – 5.° Distrito res	Delegado a la convención nacional – 5 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 Morton Steele (H) Committed to Barry Josey Nyda E. Hambin (M) Committed to Barry Josey Nyda E. Hambin (M) Committed to Barry Josey Write-In Write-In	Por escrito Distrito
Juez de la corte suprei Vote por uno	na	Juez de la corte suprema Vote por uno	
Richard Maxian Condado de Filadelfia		Linda Gapp Condado de Cumberland	
Marjorie Hall Condado de Delaware		Patricia Smallmon Condado de Allegheny	
Robert L. Linkey Condado de Bucks.		Write-In	

Juez de la corte del estado	Juez de la corte del estado
Vote por uno	Vote por uno
Chris Carpenter Condado de Montgomery	Eugene Ruff Condado de Washington
Write-In	Lewis Tese
	Condado de Luzerne
	Write-In
Juez de la corte de primeras instancias Vote por no más de dos	Juez de la corte de primeras instancias No vote por más de dos
Mary L. Daniel	Joanne Shollzert
Armstrong	Williamsport
John Roy Clinton	Kerry Jones Williamsport
Jack "Duke" Brodisky	Steven Miller
McNett	Lewis
Jon Young Muncy	Shirley Henning Mill Creek
Vic Stabile	Por escrito
Gamble	Por escrito
Por escrito	
Por escrito	
Jefe principal del condado Término de cuatro años	Jefe principal del condado Término de cuatro años
Vote por uno	Vote por uno
Norman Powers	Micheal Santarcangelo Fairfield
Williamsport	
Sandra Reilly McNett	Charles Place Gamble
Por escrito	Por escrito
Director de la escuela	Director de la escuela
Región 6 Término de cuatro años	Región 6 Término de cuatro años
No vote por más de dos	No vote por más de dos
Gerald Danson	Douglas Stone
Greg Ortiz	Gerald Danson
Shlomo Archibald	Greg Ortiz
Delores DeVan	Shlomo Archibald
Por escrito	Delores DeVan
Por escrito	Por escrito
	Por escrito

Puesto 1	Puesto 2	Puesto 3	Puesto 1	Puesto 2	Puesto 3							
Término de cuatro	Término de cuatro	Término de cuatro	Término de cuatro	Término de cuatro	Término de							
años	años	años	años	años	cuatro años							
Vote por uno	Vote por uno	Vote por uno	Vote por uno	Vote por uno	Vote por uno							
Stephen Harrick	Steve West	William Malicki	George Fisk	Tetty Rogiers	Arnold Wells							
Por escrito	Por escrito	Gary Klemann	Por escrito	Por escrito	Por escrito							
Por escrito Referéndum a nivel estatal Asunto del bono												
¿se debe aprobar la	urar la preservación y me sección dos del capítulo la cantidad de doscientos	ejoramiento del pasajero ciento dieciocho de las	férreo esencial y servicio leyes de mil novecientos	sesenticuatro, autorizano								

Precinct 1 REP	B	В	В	B	В	В	B 7	В	В	B	B	B	B	B	B	B	B	B	B
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James Collins	Х				Х	Х		X		X		X		Х		U	Х	Х	Т
Alexander P.		Х					Х								Х				Х
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Carol Koethen			Х						Х		Х								
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Bob Ford	V	V	Х	V	V		Х	V	Х	X	X	X	Х	X	Х	V		V	Х
Colby Lincoln	Х	Х		Х	Х	V		Х		Х	Х	Х		Х		Х	v	Х	
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Ben Baker	Х	Х	Х	Х	U	кер	X	X	X	X	55 0	X	Х	Х	1	Х	Х	<u> </u>	Х
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Doris Shiddles			Х						Х			Х							
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Brian Getz	Х		Х	Х															
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John Roy		Х						U			Х						U	Х	
Jack "Duke"	Х		Х	Х	Х		Х		Х	Х			Х	Х		Х			Х
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Greg Ortiz	Х				Х		Х			Х		Х	Х			U				
Shlomo Archibald		Х	Х	Х	Х		Х	Х	Х	Х	Х		Х		Х		Х		Х	X
Delores DeVan		Х				Х			Х			Х		Х				Х		
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Stephen Harrick	U	Х	Х	Х	Х		Х	Х	Х	Х	Х	Х	Х	U	Х	Х		Х	Х	X
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Calvin Marino			Х	Х	Х			Х	Х	Х	<u> </u>	Х		Х	Х	Х	<u> </u>	Х	<u> </u>	1
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Barbara Barret	Х	Х	Х	1	Х	кер	X	auvel	X	ngres	S5 DI		1	Х	Х	Х	1	Х		-
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Charles Jasen	^	V	Х	Х	Х	V	Х	V	V		Х	V	Х	Х	Х	V	^	Х	V	
Shirley Henning		Х				Х		Х	Х	X		Х				Х			Х	
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Sherman R.				Х								Х								
Bucher																				
Richard V. Suits							Х						Х					Х		
Tabathia Song	Х								Х					Х		Х				
Kenneth		Х	Х		Х	Х		Х			Х				Х		Х		Х	
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R. J. Abbott	Х	Х		Х		Х		Х		U		Х	Х	Х		Х		Х	Х	
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Vincent Seymour			U		Х		Х		Х			Х	Х			Х		U	Х	1
Toni Hamilton	Х	Х	U	Х	1	Х	1	Х	1	1	Х	1	Х	Х	1	1	Х	U		1
Sam Patel			U		Х		Х		Х			Х	X		Х	Х	† .	Ŭ	Х	1
Robert Rocco	Х	Х	U	Х	U	Х		Х	· ·		Х	+ • •	X	Х	X		Х	U	<u> </u>	1
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Judge of the Commonwealth Court X

Heather	Х		Х							Х	U		Х		Х	Х		Х	Х	
Heidelbaugh	X			V	X		V			X				X			V		V	
Herbert Devine	Х			Х	Х		Х	U		Х	U			Х			Х		Х	
George A. Fisk	_	Х			V		-	U				Х					V			X
Doris Shiddles	_	Х	V		Х		-	-				V					Х	X		X
Andre Ninia Brian Getz	-		Х	V	V							Х	V	V		V		Х		X
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Chad Snow	-			~		X			V			Х			V					
Diane Rubin	-					Х	V	-	Х						X			V	-	
Elizabeth Piazza Write-In	-					Х	Х	-	V						Х			Х	-	
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Dishard Mayian	1	1	1	Х	1	1	Juag	je or ti	ne St	-	Court	r	Х		Х	1		V	1	
Richard Maxian	-	х		^		Х	-	-		Х	Х		^	х	^			Х	х	
Marjorie Hall	Х	^	Х		Х	^	Х	Х	Х		^	х		^		V			^	X
Robert L. Linkey Write-In	^		^		^		^	^	^			^				Х	Х			· ·
write-in								f tha (`omn	000000	alth Co						X			
Chris Carpenter	Х	U	Х	Х	Х	X	X	X		X	X	X	Х	Х	U	Х	Х	Х	Х	<u> </u>
Write-In	^	U	^	^	^	^	^	^	Х	^	^	^	^	^	U	^	^	^	^	X
white-m						lue	lao of	the C	ourt a	of Con	amon B									
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Mary L. Daniel John Roy	X	X	^	^		^	^	Х	X	v	^	^		^	х		Х	X	^	₩^
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Brodisky	^		^		^	^		^		^	^		^	^			^	^	^	^
Jon Young	+			Х					+				х		Х	Х	+	-		╂┨────
Vic Stabile	1			^	Х		х	1	+		1	х	^	<u> </u>	^	X	+	+		╂┨────
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Norman Powers	Х	1	r –	1	Х	Х		X	X	Exect	X	1	Х	Х	U	1	Х		Х	X
Sandra Reilly	^	Х	Х	Х	^	^	Х	^	~	Х	~	Х	^	~	0	Х	^	Х	^	^
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Gerald Danson	U	Х		Х	Х			X	X	X		Х		Х	Х	Х	1	Х	1	X
Greg Ortiz	U	X	Х	~	~	Х		X	X	~		~	Х	X		~		~	Х	
Shlomo Archibald	- Ŭ	~	X	Х	Х	~			~	Х	Х	Х	~	~	Х	Х	Х	Х	~	X
Delores DeVan			~	~	~	Х				~	X	~	Х		~	~	~	~	Х	
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Steve West	Х		Х	Х	Х	Х	X	X	U	X	X		Х	Х	Х		Х	Х	Х	h –
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Carter McGaw		Х	<u> </u>		Х		<u> </u>	Х			Х			ļ	ļ	Х		Х	Х	4
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Shirley Henning				Х				Х		Х					Х		Х		Х	П
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Richard V. Suits										Х										
Tabathia Song			Х				Х						Х							X
Kenneth	Х			Х	Х	Х			Х			Х			Х		Х		Х	Π
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R. J. Abbott	Х	Х		Х	Х	Х		Х	Х		Х	U		Х	Х		Х	Х	Х	X
Peter F. Saxton			Х				Х			Х			Х							
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Vincent Seymour		Х		Х		Х		Х			U			Х		Х		Х		
Toni Hamilton	Х		Х		Х	Х	Х		Х	Х	U	Х	Х		Х		Х	U	Х	X
Sam Patel		Х		Х		Х		Х		Х	U			Х		Х		U	Х	X
Robert Rocco	Х		Х		Х	Х	Х	U	Х	Х	U	Х	Х			Х	Х	U	Х	X
Renee Cohn	Х		Х		Х		Х	U	Х	Х					Х		Х			П
Jubelrier																				
Morton Steele	Х		Х		Х		Х		Х							Х	Х		Х	X
Mary Burke		Х		Х										Х	Х	Ι		Ι	Γ	Π
Nyda E. Hambin		Х		Х										Х	Х					П
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Patricia Smallmon	Х		Х	Х	Х		Х		Х	Х			Х	Х		Х	Х			tt
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Eugene Ruff	Х	Х		Х	Х		X	Х	Х			Х			Х	U			Х	T
Lewis Tese			Х			Х				Х	Х		Х				Х	Х		X
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						Jud	ge of	the Co	ourt o	of Con	mon P	leas								1
Joanne Shollzert	Х	Х	Х		Х	Х		Х	Х	Х		Х	Х	U	Х		Х		Х	П
Kerry Jones	Х	Х		Х	Х	U	Х		Х				Х	U		Х	Х	Х	Х	Π
Steven Miller			Х				Х			Х	Х	Х			Х			Х		X
Shirley Henning				Х				Х			Х					Х				X
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Douglas Stone		Х					U		Х				Х							Π
Gerald Danson		Х		Х		Х	U	Х	Х	Х		Х	Х	Х		Х	Х			
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Yes	Х		Х		Х		Х		Х		Х		Х		Х		Х		Х	
No		Х		Х		Х		Х		Х		Х		Х		Х		Х		X

Precinct 3 Non Partisan	В 1	В 2	В 3	В 4	В 5
R	eferen	dum A	1		
Yes	Х		Х		U
No		Х		Х	

Test Results:

Precinct 1 REP President of the United States James Collins 10

Undervotes 0 Representative in Congress >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		
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Write-In 1 Undervotes 2 Judge of the Court of Common Pleas	Chris Carpenter	
Undervotes 2 Judge of the Court of Common Pleas	Write-In	1
Judge of the Court of Common Pleas	Undervotes	
	Judge of the Court of Commo	n Pleas
Mary L. Danci 12		
	mary L. Damer	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
	14
Shlomo Archibald	
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
Undervote	5
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	h District
Barbara Barret Hicks	
Clinton Testo	6
Write-In	1
Undervotes	0
Undervotes	0
Governor	
Charles Jasen	12
Shirley Henning	7
Write-In	1
Undervotes	0
Chucivous	v
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	
R. J. Abbott	Assembly 83rd District 12
Representative in the General R. J. Abbott Peter F. Saxton	
R. J. Abbott	12

Undervotes	1
Presidential Nomination Deleg	gation
Vincent Seymour	8
Toni Hamilton	10
Sam Patel	9
Robert Rocco	11
Renee Cohn Jubelrier	9
Morton Steele	8
Mary Burke	5
	4
Nyda E. Hambin	
Write-In	5 11
Undervotes	11
Judge of the Superior Court	
Linda Gapp	6
Patricia Smallmon	12
Write-In	1
Undervotes	1
Judge of the Commonwealth C	Court
Eugene Ruff	11
Lewis Tese	8
Write-In	0
Undervotes	1
Judge of the Court of Common	n Pleas
Joanne Shollzert	12
Kerry Jones	13
Steven Miller	6
Shirley Henning	5
Write-In	1
Undervotes	3
Undervotes	5
County Chief Executive	
Micheal Santarcangelo	13
Charles Place	7
Write-In	0
Undervotes	0
Chidervoles	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	
	19
George Fisk	
Write-In	0
Undervotes	1
Referendum A	
Yes	12
No	6
Undervote	2
Childer vote	
Precinct 2 REP	
President of the United States	
Iomas Collins	
James Collins	11
Alexander P. Bicket	11 4
Alexander P. Bicket Carol Koethen	11 4 3
Alexander P. Bicket	11 4

United States Senator Bob Ford Colby Lincoln Write-In Undervotes	7 12 1 0
Representative in Congress 5th Ben Baker Write-In Undervotes	h District 16 2 2
Governor Dean Lindsey Don Etter Joe Carlton Edwin Lewis Samuel Lawton Write-In Undervotes	5 5 7 2 1 0 0
Lieutenant Governor Scott Montes Saul Currier Arnold Krill Write-In Undervotes	4 5 9 2 0
Representative in the General Harry Rider Robert Tyrell Write-In Undervotes	Assembly 13 6 1 0
Presidential Nomination Deleg Gloria Dillion Heather Heidelbaugh Herbert Devine George A. Fisk Doris Shiddles Andre Ninia Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes	ation 11 8 8 3 4 4 5 3 4 5 2
Judge of the Superior Court Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes	5 5 9 1 0
Judge of the Commonwealth C Chris Carpenter Write-In Undervotes	20000000000000000000000000000000000000
Judge of the Court of Common Mary L. Daniel John Roy Jack "Duke" Brodisky Jon Young Vic Stabile Write-In Undervotes	n Pleas 13 6 13 4 4 0 0

83rd District

County Chief Executive			
Norman Powers	11		
Sandra Reilly	8		
Write-In	0		
Undervotes	1		
Childervotes	1		
School Director Region 6			
Gerald Danson	12		
Greg Ortiz	8		
Shlomo Archibald	11		
Delores DeVan	4		
Write-In	2		
Undervotes	3		
Childervotes	5		
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 St	ates		
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		
D			
Representative in Congre			
Barbara Barret Hicks	13		
Clinton Testo	5		
Write-In	2		
Undervotes	0		
Covernor			
Governor			

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	
R. J. Abbott	14
Peter F. Saxton	4
Write-In	1
** 1	
Undervotes	1
Undervotes	1
Undervotes	1
Presidential Nomination Deleg	
Presidential Nomination Deleg	gation
Presidential Nomination Deleg	gation 7

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 Commo	on Pleas
Joanne Shollzert	13
Kerry Jones	11
Steven Miller	8
Shirley Henning	5
Write-In	0
Undervotes	3
Charles	-
County Chief Executive	
Micheal Santarcangelo	12
Charles Place	7
Write-In	0
Undervotes	1
Undervotes	
School Director Region 6	
Douglas Stone	3
Gerald Danson	12
Greg Ortiz	7
Shlomo Archibald	11
Delores DeVan	4
Write-In	1
Undervotes	$\frac{1}{2}$
Undervotes	2
Commissioner Seat 2	
Tetty Rogiers	17
Write-In	1
Undervotes	$\frac{1}{2}$
Undervotes	2
Deferrendum A	
Referendum A Yes	Q
Yes No	8 5
Undervote	7
Undervote	
Precinct 3 REP	
President of the United States	
James Collins	9
Alexander P. Bicket	5
Carol Koethen	4
Write-In	4
Undervotes	1
Undervotes	1
United States Senator	
United States Senator	5
Bob Ford	5
Colby Lincoln	11
Write-In	3
Undervotes	1
D	
Representative in Congress 1	0th District

Cheryl Simon	7
Lois Koss	12
Write-In	1
Undervotes	0
Oldervotes	0
Comment	
Governor	
Dean Lindsey	5
Don Etter	5
Joe Carlton	7
Edwin Lewis	2
Samuel Lawton	1
Write-In	0
Undervotes	0
Childer votes	
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
	4
Undervotes	1
Presidential Nomination Deleg	
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 C	Sourt
Chris Carpenter	16
Write-In	
Undervotes	3
Judge of the Court of Commo	n Plaas
Mary L. Daniel	11
John Dou	
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 Dailly	
Sandra Reilly	8
Write-In	0
Undervotes	0
School Director Region 6	
Gerald Danson	10
Greg Ortiz	7
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Nyda E. Hambin4Vrite-In5Jndervotes11	Morton Steele	
Nyda E. Hambin4Vrite-In5Jndervotes11	Mary Burke	
Write-In5Jndervotes11	Nyda E. Hambin	
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Judge of the Superior Court		
	Judge of the Superior Cou	art

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Under Other Court of Common Please Joanne Shollzert 13 Steves Miller 6 Steves Miller 6 Mittels 3 Undervotes 1 Charler Diace 5 Write In 3 Undervotes 1 Undervotes 0 Status Status 1 Undervotes 0 Commissioner Seat 3 1 Condervotes 0 Referendum A 1 Visite In 1 Undervotes 0 Referendum A 1 Visite In 1 Undervotes 0 Referendum A 1 Visite In 2 <td< td=""><td></td><td></td></td<>		
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Stevin Stevin<		
Shife Jenning 4 Write In 3 Undervotes 1 Connet, Chief Kaccuive 1 Kheden Jenstrangio 14 Chankey Blace 5 Write-In 1 Undervotes 0 School Director Region 6 1 Grand Danson 1 Undervotes 0 Commissioner Seat 3 1 Amole Wells 19 Write-In 10 Non 10 Undervote 0 Precederation A 2 View 2 No 2	Steven Miller	
Write-In 3 Courty Chief Executive - Michael Suntarcangelo 14 Charles Place 5 Write-In 1 Undervores 0 School Director Region 6 7 Gerald Danson 11 Gerald Danson 11 Gerald Danson 11 Douglas Stone 7 Gerald Danson 11 Dolafos Achibald 11 Delores Devance 5 Shoon Achibald 11 Delores Devance 5 Write-In 1 Undervores 0 Commissioner Seat 3 9 Write-In 1 Undervores 0 No 10 Undervore 10 Vindervore 10 <td></td> <td></td>		
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Comy Chief Executive Micheal Stantarcangelo 14 Charles Place 5 Write-In 1 Undervotes 0 Stood Director Region 0 7 Gerald Danson 11 Douglas Stoon 5 Stood Danson 11 Gerald Danson 11 Dolgabs Stoon 5 Stood Archibald 11 Delores DeVance 5 Write-In 1 Undervotes 5 Write-In 1 Undervotes 0 Referendum A 1 Yes 10 Undervote 0 Preciect 3 Non Partisar 1 Vuidervote 1 Undervote 1 Vuidervote 1 Vuidervote 10 Undervote 1 Vuidervote 1 Vuidervote 1 Consol Colliss 1 Condo Corbein 1		
Micheal Santarcangelo 14 Charles Place 5 Write-In 1 Dorglas Stora 7 Geral Danson 11 Geral Danson 12 Shora Danson 13 Geral Danson 14 Dorglas Stora 5 Shora Archibald 11 Dalores Da Van 5 Write-In 1 Daterson Seat 3 7 Arnold Wells 19 Write-In 1 Undervotes 0 Referendum A 1 Yes 10 Undervote 0 Prescrict 3 Non Partisan 1 Prescrict 3 Non Partisan 1 Referendum A 1 Yes 2 Undervote 0 Prescrict 3 Non Partisan 1 Referendum A 1 Yes 2 Undervote 1 Comulative Totals REF 1 Carol Koethen <		
Micheal Santarcangelo 14 Charles Place 5 Write-In 1 Dorglas Stora 7 Geral Danson 11 Geral Danson 12 Shora Danson 13 Geral Danson 14 Dorglas Stora 5 Shora Archibald 11 Dalores Da Van 5 Write-In 1 Daterson Seat 3 7 Arnold Wells 19 Write-In 1 Undervotes 0 Referendum A 1 Yes 10 Undervote 0 Prescrict 3 Non Partisan 1 Prescrict 3 Non Partisan 1 Referendum A 1 Yes 2 Undervote 0 Prescrict 3 Non Partisan 1 Referendum A 1 Yes 2 Undervote 1 Comulative Totals REF 1 Carol Koethen <	County Chief Executive	
Charles Place 5 Vinte-In 1 Undervotes 0 School Director Region 6 7 Dauglas Stone 7 Gerald Danson 11 Greg Orliz 5 Shlomo Archibald 11 Oderost DeVance 5 Write-In 1 Undervotes 0 Commissioner Seat 3 7 Arnold Wells 19 Write-In 1 Undervotes 0 Referendum A 7 Yes 10 No 10 Undervote 0 Precient 3 Non Partisan 7 Referendum A 2 Yes 2 Undervote 1 Undervote 1 Commistive Totals REF 7 President of the United States 3 Carol Koechen 10 Vinter-In 4 Undervote 3 Carol Koechen 10	Micheal Santarcangelo	14
Write-In 1 Undervotes 0 School Director Region 6 7 Gerald Dauson 11 Orag Ortiz 5 Sholom Acchihald 11 Daders DaVan 5 Write-In 1 Daders DaVan 5 Write-In 1 Daders DaVan 5 Write-In 1 Undervotes 0 Commissioner Seat 3 - Arnold Wells 19 Write-In 1 Undervotes 0 Referendum A - Yes 10 Undervote 0 Prescinct 3 Non Partisan - Referendum A - Yes 2 No 2 Undervote 1 Comutative Totals REF - President of the United States - Accander P, Bicket 13 Carol Koethen 10 Undervote 3	Charles Place	5
School Director Region 6 7 Gorald Damson 1 Greg Orliz 5 School Archibald 1 Dators DeVan 5 Write-In 1 Undervotes 0 Commissioner Seat 3 Arnold Wells 19 Write-In 1 Undervotes 0 Referendum A Tes 10 No 10 Undervote 0 President A Yes 2 No 10 Undervote 1 Commissioner Seat 3 President A Yes 2 No 2 Undervote 1 Commissioner Seat 3 President of the United States Jacobia James Collins 30 Alexander P. Bicket 13 Cond Koethen 10 Write-In 4 Undervote 3 <	Write-In	1
Douglas Stone 7 Gerald Danson 11 Greg Ortiz 5 Shlom Archibald 11 Dologes DeVan 5 Write-In 1 Undervotes 0 Commissioner Seat 3 Arnold Wells 19 Write-In 1 Undervotes 0 Referendum A Yes 10 Undervote 0 President 3 Non Partisan Referendum A Yes 2 No 10 Undervote 0 President of the United States James Collins 30 Alexander P. Bicket 13 Corol Koethen 10 Write-In 4 Undervote 3 Undervote 3 Undervote 18 Coby Lincoln 35 Undervote 14	Undervotes	0
Douglas Stone 7 Gerald Danson 11 Greg Ortiz 5 Shlom Archibald 11 Dologes DeVan 5 Write-In 1 Undervotes 0 Commissioner Seat 3 Arnold Wells 19 Write-In 1 Undervotes 0 Referendum A Yes 10 Undervote 0 President 3 Non Partisan Referendum A Yes 2 No 10 Undervote 0 President of the United States James Collins 30 Alexander P. Bicket 13 Corol Koethen 10 Write-In 4 Undervote 3 Undervote 3 Undervote 18 Coby Lincoln 35 Undervote 14		
Douglas Stone 7 Gerald Danson 11 Greg Ortiz 5 Shlom Archibald 11 Dologes DeVan 5 Write-In 1 Undervotes 0 Commissioner Seat 3 Arnold Wells 19 Write-In 1 Undervotes 0 Referendum A Yes 10 Undervote 0 President 3 Non Partisan Referendum A Yes 2 No 10 Undervote 0 President of the United States James Collins 30 Alexander P. Bicket 13 Corol Koethen 10 Write-In 4 Undervote 3 Undervote 3 Undervote 18 Coby Lincoln 35 Undervote 14	~	
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Shono Archibald 11 Delores DeVan 5 Write-In 1 Undervotes 0 Commissioner Seat 3		
Delors 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 Commulative Totals REF President of the United States James Collins 30 Alexander P. Brickt 13 Carol Koethen 10 Write-In 4 Undervote 3 United States Senator 3 Bob Ford 18 Coby Lincoln 3 Write-In 6 Unidervote 1		
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Arnold Wells 19 Write-In 1 Undervotes 0 Referendum A	Commissioner Seat 3	
Write-In 1 Undervotes 0 Referendum A		10
Undervotes 0 Referendum A 10 Yes 10 No 10 Undervote 0 Precinct 3 Non Partisan Referendum A Yes 2 No 2 Undervote 1 Cumulative Totals Referendum A Fresident of the United States James Collins 30 Alexander P. Bicket 13 Carol Koethen 10 Write-In 4 Undervote 3 Undervote 3 United States Senator 18 Colby Lincoln 35 Write-In 6 Undervote 1		
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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	No	10
Referendum AYes2No2Undervote1Cumulative Totals RE	Undervote	0
Referendum AYes2No2Undervote1Cumulative Totals RE		
Referendum AYes2No2Undervote1Cumulative Totals RE		
Yes2No2Undervote1Cumulative Totals REF:President of the United StatesJames Collins30Alexander P. Bicket13Carol Koethen10Write-In4Undervote3United States SenatorBob Ford18Colby Lincoln35Write-In6Undervote1	Precinct 3 Non Partisan	
Yes2No2Undervote1Cumulative Totals REF:President of the United StatesJames Collins30Alexander P. Bicket13Carol Koethen10Write-In4Undervote3United States SenatorBob Ford18Colby Lincoln35Write-In6Undervote1	Defense den A	
No2Undervote1Cumulative Totals REF:President of the United StatesJames Collins30Alexander P. Bicket13Carol Koethen10Write-In4Undervote3United States SenatorBob Ford18Colby Lincoln35Write-In6Undervote1		2
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Alexander P. Bicket13Carol Koethen10Write-In4Undervote3United States SenatorBob Ford18Colby Lincoln35Write-In6Undervote1	James Collins	
Carol Koethen10Write-In4Undervote3United States SenatorBob Ford18Colby Lincoln35Write-In6Undervote1		
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Undervote3United States SenatorBob Ford18Colby Lincoln35Write-In6Undervote1	Write-In	
United States SenatorBob Ford18Colby Lincoln35Write-In6Undervote1	Undervote	
Bob Ford18Colby Lincoln35Write-In6Undervote1		
Bob Ford18Colby Lincoln35Write-In6Undervote1	United States Senator	
Write-In 6 Undervote 1	Bob Ford	
Write-In6Undervote1	Colby Lincoln	
	Write-In	
Representative in Congress 5th District	Undervote	1
Representative in Congress 5th District		
	Representative in Congress	s 5th District

Ben Baker	31
Write-In	6
Undervote	3
Representative in Congress 10	0th 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
Childer votes	
Representative in the General	Assembly 84rd District
Peter Valle	15
Write-In	4
Undervotes	1
Childer votes	
Presidential Nomination Deleg	gation
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	5 7
Undervotes	/
Judge of the Court of Commo	n Pleas
Mary L. Daniel	36
John Roy	14
	17
Jack "Duke" Prodictor	
Jack "Duke" Brodisky	36
Jack "Duke" Brodisky Jon Young Vic Stabile	

Write-In	4
Undervotes	6
Undervotes	0
County Chief Executive	
Norman Powers	35
	22
Sandra Reilly	
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	$\frac{2}{2}$
	-
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
Childervote	
Cumulative Totals D	EM:
President of the United State	
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
Childer voltes	
Representative in Congress 5	th District
Barbara Barret Hicks	26
Clinton Testo	11
Write-In	3
Undervotes	0
Representative in Congress 1	
William Sullivan	17
Write-In	2
Undervotes	1
-	
Governor	
Charles Jasen	11
Charles Jasen Shirley Henning	35 20
Charles Jasen Shirley Henning Write-In	35 20 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	
R. J. Abbott Peter F. Saxton	26 10
Write-In	2
Undervotes	2
	2
Representative in the General	Assembly 84rd District
Neil Carey	14
Saul Currier	5
Write-In	1
Undervotes	0
Presidential Nomination Deleg	
Vincent Seymour	23
Toni Hamilton	33
Sam Patel	27
Robert Rocco	35
Renee Cohn Jubelrier Morton Steele	26 25
Mary Burke	14 12
Nyda E. Hambin Write-In	12 14
Undervotes	31
Undervotes	51
Judge of the Superior Court	
Linda Gapp	19
Patricia Smallmon	36
Write-In	4
Undervotes	1
Judge of the Commonwealth (
Eugene Ruff	34
Lewis Tese	23
Write-In Undervotes	$\frac{1}{2}$
Undervotes	2
Judge of the Court of Common	n Pleas
Joanne Shollzert	
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 Undervotes	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	10
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 No	on 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 of the United States		
		One Party for President and Vice	e President	
	or insert	the names of candidates		
James Collins Arthur Remus				

Republican			
Calvin Marino Keith Satterwhite Democratic			
John P. Defazio Louis Denn <i>Green</i>			
June Perkins David Heroux <i>Libertarian</i>			
Write-In			
		t es Senator or One	
	Volen	or One	
Colby Lincoln <i>Republican</i>			
Oscar Draper Democratic			
Eric Sheely <i>Libertarian</i>			
Write-In			
	Representative in Congress 5 th District Vote for One		Representative in Congress 10 th District Vote for One
Ben Baker <i>Republican</i>			Lois Koss <i>Republican</i>
Barbara Barrett Hicks Democratic			William Sullivan Democratic
Write-In			Write-In
	Governor/Lieut Vote for the Candidate of One Party f	enant Governor	
			SHO
Joe Carlton Arnold Krill <i>Republican</i>			
Charles Jasen Kenneth Interlicchio Democratic			
Robert Marsh Theodore Kopp <i>Green</i>			
Write-In			
Representat	ive in the General Assembly 83 rd District	Representative in th	e General Assembly
	83 rd District Vote for One		vistrict or One
Harry Rider <i>Republican</i>		Peter Valle <i>Republican</i>	
R. J. Abbott Democratic		Neil Carey Democratic	
		1	

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

Donna Berke Democratic		
Write-In		
	District Attorney	
	Four Year Term	
	Vote for One	
Franklin Margo		
Republican		
Donald Hensley		
Democratic		
Write-In		
wine-in		
	School Director Region 6	
	Four Year Term	
	Vote for Not More Than Two	0
Gerald Danson		
Republican/Democra	tic	
Shlomo Archibald		
Republican/Democra	tic	
Write-In		
wine-in		
Write-In		
Commissioner	Commissioner	Commissioner
Seat 1	Seat 2	Seat 3
Four Year Term	Four Year Term	Four Year Term
Vote for One	Vote for One	Vote for One
Stephen Harrick	Steve West	William Malicki
Republican	Republican	Republican
George Fisk	Tetty Rogiers	Arnold Wells
Democratic	Democratic	Democratic
Write-In	Write-In	Write-In
White in		When in
	Statewide Deferendum	
	Statewide Referendum Water and Sewer Improvements Bond	Referendum
public utilities for the cost of a easements, plans and specific services and all other expenses	ndebtedness by the Commonwealth of \$400,0 Il labor, materials, necessary operational mac ations, surveys, estimates of costs and rever s necessary or incident to the acquisition, const	000,000 for grants and loans to municipalities and chinery and equipment, lands, property, rights and nues, prefeasibility studies, engineering and legal truction, improvement, expansion, extension, repair int source projects, nutrient credits and wastewater
Yes		
No		
	Retention of Tony Grzanic	h
Shall Tony Grzanich be retaine	d for an additional term as Justice of the Suprer	me Court of the Commonwealth of Pennsylvania?
Yes		

No											
	Retenti	on 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								
		artido íntegro									
Denuklisens											
Republicano											
Demócrata											
Verde											
Libertario											
	Presidente/Vicepre	sidente de los Estados Unidos									
	Vote para el candidato de ur	n partido para presidente y vicepreside nombres de los candidatos	ente								
James Collins											
Arthur Remus <i>Republicano</i>											
Calvin Marino											
Keith Satterwhite Demócrata											
John P. Defazio											
Louis Denn											
Verde											
June Perkins David Heroux											
Libertario											
Por escrito											
		le los Estados Unidos Vote por uno									
Colby Lincoln											
Republicano											
Oscar Draper Demócrata											
Eric Sheely <i>Libertario</i>											
Por escrito											
	Representante en el Con 5º Distrito Vote por uno	greso	Representante en el Congreso 10.º Distrito								
Ben Baker <i>Republican</i> o			Vote por uno Lois Koss								

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

Danahlianna	
Republicano	
Jack "Duke" Brodisky <i>Republicano</i>	
Joanne Schollzert Demócrata	
Kerry Jones	
Demócrata	
Por escrito	
Por escrito	
	Jefe principal del condado
	Término de cuatro años
	Vote por uno
Norman Powers 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 <i>Republicano</i>	
Donald Hensley	
Demócrata	
Por escrito	
	Director de la escuela Región 6
	Término de cuatro años
	No vote por más de dos
Gerald Danson Republicano/Demócrata	
Shlomo Archibald Republicano/Demócrata	
Por escrito	
Por escrito	

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Yes	X	Х	U	Х	Х		1	1		1	1		X	x	X	X	X	X	X	x
Yes No						Х	X	X	X	X	X	X					<u> </u>	<u> </u>		
Yes	Х В 1	X B 2	U B 3	X B 4	X B 5		1	Х В 8	Х В 9	X B 10	X B 11		X B 13	X B 14	X B 15	X B 16	X B 17	X B 18	X B 19	X B 20
Yes No Precinct 2b	B	B 2	В	В	B 5	Х В 6	Х В 7	X B 8 Str	X B 9 aight	B	X B 11	B	В	B 14	В	B 16	В	B 18	B 19	B 20
Yes No Precinct 2b Republican	B 1	В	B 3	B 4	в	B	B	Х В 8	Х В 9	X B 10 Party	X B 11	B	В	в	В	B	В	B	В	в
Yes No Precinct 2b Republican Democratic	B	B 2	В	В	B 5	Х В 6	Х В 7	X B 8 Str	X B 9 aight	X B 10	X B 11	X B 12	В	B 14	B 15	B 16	B 17	B 18	B 19	B 20
Yes No Precinct 2b Republican Democratic Green	B 1	B 2	B 3	B 4	B 5	Х В 6	Х В 7	X B 8 Str	X B 9 aight	X B 10 Party	X B 11	B	B 13	B 14	В	B 16	В	B 18	B 19	B 20
Yes No Precinct 2b Republican Democratic	B 1	B 2	B 3	В 4 Х	B 5	X B 6 U	X B 7 U	B 8 Str	B 9 aight	B 10 Party	X B 11 V	X B 12 X	B 13	B 14 U	B 15	B 16	B 17	B 18	B 19	B 20
Yes No Precinct 2b Republican Democratic Green	B 1	B 2	B 3	В 4 Х	В 5 U Pres	X B 6 U	X B 7 U	B 8 Str	B 9 aight	X B 10 Party	X B 11 V	X B 12 X	B 13	B 14 U	B 15	B 16	B 17	B 18	B 19	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus	B 1	B 2	B 3	В 4 Х	В 5 U Pres	B 6 U	B 7 U	X B 8 Str	B 9 aight U sider	B 10 Party	X B 11 / U	X B 12 X	B 13	B 14 U	B 15	B 16 U	B 17 X	B 18 U	B 19 U	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino	B 1	B 2	B 3	В 4 Х	В 5 U Pres	B 6 U	X B 7 U	X B 8 Str	B 9 aight U sider	B 10 Party	X B 11 / U	X B 12 X	B 13	B 14 U	B 15	B 16	B 17 X	B 18	B 19 U	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite	B 1	B 2	B 3	В 4 Х	В 5 U Pres	B 6 U	B 7 U	X B 8 Str	B 9 aight U sider	B 10 Party	X B 11 / U	X B 12 X ited \$	B 13	B 14 U	B 15 X	B 16 U	B 17 X	B 18 U	B 19 U	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio	B 1	B 2	B 3	В 4 Х	В 5 U Pres	B 6 U	B 7 U	X B 8 Str	B 9 aight U sider	B 10 Party	X B 11 / U	X B 12 X	B 13	B 14 U	B 15	B 16 U	B 17 X	B 18 U	B 19 U	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn	B 1	B 2	B 3	В 4 Х	В 5 U Pres	B 6 U	B 7 U	X B 8 Str	B 9 aight U sider	B 10 Party	X B 11 / U	X B 12 X ited \$	B 13 X States	B 14 U	B 15 X	B 16 U	B 17 X	B 18 U	B 19 U	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins	B 1	B 2	B 3	В 4 Х	В 5 U Pres	B 6 U	B 7 U	X B 8 Str	B 9 aight U sider	B 10 Party	X B 11 / U	X B 12 X ited \$	B 13	B 14 U	B 15 X	B 16 U	B 17 X	B 18 U	B 19 U	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins David Heroux	B 1	B 2	B 3	В 4 Х	В 5 U Pres	B 6 U	B 7 U	X B 8 Str	B 9 aight U sider	B 10 Party	X B 11 / U	X B 12 X ited \$	B 13 X States	B 14 U	B 15 X	B 16 U	B 17 X	B 18 U	B 19 U	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins	B 1	B 2	B 3	В 4 Х	В 5 U Pres	B 6 U	X B 7 U t/Vice	X B 8 Str. U 2 Pre:	B 9 aight U Sider X	B 10 Party	X B 11 7 U Nhe Un X	X B 12 X ited \$	B 13 X States	B 14 U	B 15 X	B 16 U	B 17 X	B 18 U	B 19 U	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins David Heroux	B 1	B 2	B 3	В 4 Х	В 5 U Pres	B 6 U	X B 7 U t/Vice	X B 8 Str. U 2 Pre:	B 9 aight U Sider X	X B 10 Party P	X B 11 7 U Nhe Un X	X B 12 X ited \$	B 13 X States	B 14 U	B 15 X	B 16 U	B 17 X	B 18 U	B 19 U	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins David Heroux Write-In Colby Lincoln Oscar Draper	B 1	B 2	B 3	В 4 Х	B 5 Pres X	B 6 U ident	X B 7 U t/Vice	B 8 Str. U Pre: X	B 9 aight U Sider X	X B 10 Party P	B 11 / U he Un X	X B 12 X ited S	B 13 X States	B 14 U X	B 15 X	B 16	B 17 X X	B 18 U	B 19 U X	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins David Heroux Write-In Colby Lincoln Oscar Draper Eric Sheely	B 1	B 2	B 3	В 4 Х	B 5 Pres X	B 6 U ident	B 7 U t/Vice	B 8 Str. U Pre: X	B 9 aight U Sider X	X B 10 Party P	B 11 / U he Un X	X B 12 X ited S	B 13 X States	B 14 U X	B 15 X X X	B 16	B 17 X X	B 18 U X	B 19 U X	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins David Heroux Write-In Colby Lincoln Oscar Draper	B 1	B 2	B 3	В 4 Х	B 5 Pres X	X B 6 U identi X	X B 7 U t/Vicc	B 8 8 Str U Pre X	B 9 9 sight Sider X	B 10 Party P nt of t	B 11 / U me Un X	X B 12 X ited \$	B 13 X States	B 14 U X	B 15 X	B 16	B 17 X X	B 18 U X	B 19 U X	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins David Heroux Write-In Colby Lincoln Oscar Draper Eric Sheely Write-In	B 1	B 2	B 3	В 4 Х	B 5 Pres X	B 6 U ident X	B 7 U t/Vicc	B 8 8 Str U Pre X	B 9 aight U State	X B 10 Party P	B 11 / U me Un X	X B 12 X ited \$	B 13 X States	B 14 U X	B 15 X X X X X X	B 16	B 17 X X X X X	B 18 U X	B 19 U X X	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins David Heroux Write-In Colby Lincoln Oscar Draper Eric Sheely Write-In Ben Baker	B 1	B 2	B 3	В 4 Х	B 5 Pres X	X B 6 U identi X	X B 7 U t/Vicc	B 8 8 Str 2 Pre X	B 9 9 sight Sider X	B 10 Party P nt of t	X B 11 U me Un X aator X sss 5 th	X B 12 X ited \$	B 13 X States	B 14 U X	B 15 X X X	B 16 U X	B 17 X X	B 18 U X X	B 19 U X	B 20 U X
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins David Heroux Write-In Colby Lincoln Oscar Draper Eric Sheely Write-In Ben Baker Barbara Barrett	B 1	B 2	B 3	В 4 Х	B 5 Pres X	B 6 U ident X	B 7 U t/Vicc	B 8 8 Str U Pre X	B 9 aight U State	B 10 Party P nt of t	B 11 / U me Un X	X B 12 X ited \$	B 13 X States	B 14 U X	B 15 X X X X X X	B 16	B 17 X X X X X	B 18 U X	B 19 U X X	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins David Heroux Write-In Colby Lincoln Oscar Draper Eric Sheely Write-In Ben Baker Barbara Barrett Hicks	B 1	B 2	B 3	В 4 Х	B 5 Pres X	B 6 U ident X	B 7 U t/Vicc	B 8 8 Str 2 Pre X	B 9 aight U State	B 10 Party P nt of t	X B 11 U me Un X aator X sss 5 th	X B 12 X ited S X X Distr	B 13 X States	B 14 U X	B 15 X X X X X X	B 16 U X	B 17 X X X X X	B 18 U X X	B 19 U X X	B 20 U X
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins David Heroux Write-In Colby Lincoln Oscar Draper Eric Sheely Write-In Ben Baker Barbara Barrett	B 1	B 2	B 3	В 4 Х	B 5 Pres X	B 6 U iden X X epre	X B 7 U t/Vicc X X X Seenta X	X B 8 Str. ↓ ↓ Pre X	B 9 9 sider X State X in Cc	B 10 Party P nt of t	X B 11 / U ne Un X nator X sss 5 th X	X B 12 X ited S X X Distr	B 13 X States	B 14 U X	B 15 X X X X X X	B 16 U X	B 17 X X X X X	B 18 U X X	B 19 U X X	B 20
Yes No Precinct 2b Republican Democratic Green Libertarian James Collins Arthur Remus Calvin Marino Keith Satterwhite John P. Defazio Louis Denn June Perkins David Heroux Write-In Colby Lincoln Oscar Draper Eric Sheely Write-In Ben Baker Barbara Barrett Hicks	B 1	B 2	B 3	В 4 Х	B 5 Pres X	B 6 U iden X X epre	X B 7 U t/Vicc X X X Seenta X	X B 8 Str. ↓ ↓ Pre X	B 9 9 sider X State X in Cc	B 10 Party P nt of t	X B 11 / U ne Un X nator X sss 5 th X	X B 12 X ited S X X Distr	B 13 X States	B 14 U X	B 15 X X X X X X	B 16 U X	B 17 X X X X X	B 18 U X X	B 19 U X X	B 20

Charles Jasen						Х		Х			Х					Х				
Kenneth		'																		
Interlicchio																				
Robert Marsh												Х			Х		Х			
Theodore Kopp		'																		
Write-In													Х							
				Rep	orese	ntati	ve in	the (Gene	ral As	semb	oly 84	rd Dis	trict						
Peter Valle					Х	Х		Х	Х		Х				Х	Х	Х		Х	
Neil Carey							Х					Х	Х					Х		Х
Write-In				1										Х				1		
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Robert L. Linkey				1	Х		X	X			X	X	Х		Х	Х	Х	Х		
Patricia Smallmon		<u> </u>			~	Х	~	~	Х		~	~	~	Х	~	~	~	~		Х
Write-In		<u> </u>				~			~			-		~				-	Х	~
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Chris Carpenter				1	r	X	ye ui	X	X		X	Coun	X		r –	Х	Х	U		Х
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Eugene Ruff		<u> </u>			V		^					^		^	V			-	^	
Write-In				<u> </u>	Х										Х					
									ourt	of Co		n Plea	IS		<u> </u>				1	1
Mary L. Daniel		'	──		X	X	Х	Х			Х			U		Х	X	Х		
Jack "Duke"		1		1	Х	Х			Х			Х		U		Х	Х	1	1	
Brodisky		'	┝──	<u> </u>	┣──	L				L	L	L	L		L		L			
Joanne Schollzert		ļ'		Ļ	<u> </u>	ļ	Х		Х		ļ							Х	Х	Х
Kerry Jones				<u> </u>				Х							Х				Х	Х
Write-In											Х	Х	Х		U					
Write-In													Х							
							Co	unty	Chief	f Exec	utive									
Norman Powers					Х	Х		Х	Х			Х			Х	Х	U		Х	Х
Micheal							Х				Х		Х	Х						
Santarcangelo																				
Write-in																		Х		
								Coun	tv Co	ontrol	ler									
Paul M Bertel-			Γ	1	U		Х	Х	X			Х	Х		Х	Х		Х	Х	Х
Lincoln					-		~		~				~			~			~	~
Donna Berke				1		Х					Х			Х			Х			
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Franklin Margo				1	<u> </u>	1		Dist			X	1		Х			Х	1		
Donald Hensley		<u> </u>			Х	Х	Х	Х	Х		~	Х	Х	~	Х	Х	~	Х	Х	Х
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Gerald Danson		<u> </u>			X X	X	Х	X	V		X X	X	U U	X X	X X	X X	V	X	X	X
Shlomo Archibald		<u> </u>			~	Х	v	Х	Х		X	Х	U	X	Χ.	~	X	~	X	Х
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Steve West			──		Х	Х		Х	Х		Х	Х	Х		Х	Х	Х	Х	Х	N N
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Yes	Х	Х			Х		Х		Х		Х	Х	Х	Х						
No	7		Х	Х		Х		Х		Х					Х	Х	Х	Х	Х	Х
No							Reter	ntion		ony G	rzani	ch								
INU				1.1	Х	Х		Х	Х	X	Γ	U	Х		Х	Х	Х	1	Х	Х
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Yes	Х	Х	Х	X	~			ntion	of D	ebbie		s								
Yes No	X							ntion		1	Mark		X			Х	X	1	X	Х
Yes No Yes		X	X	x			Rete		of D	ebbie X		ks X	Х	Х	X	Х	X	x	X	Х
Yes No	X X				X			ntion X		1	Mark		X		X	Х	Х	x	X	X
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Yes No Yes No	X	X	X	X	X	U	Rete X	X	X	X	Mark X	X		Х						
Yes No Yes							Rete			1	Mark		Х В 13		Х В 15	X B 16	Х В 17	X B 18	X B 19	Х В 20
Yes No Yes No	X	X B	X B	X	X	U	Rete X B	X B 8	X B 9	Х В 10	Mark X B 11	X B	В	X	В	В	В	в	в	В
Yes No Yes No Precinct 3	X B 1	Х В 2	Х В 3	X B 4	X B 5	U B 6	Rete X B	X B 8 Str	X B 9 aight	X B	Mark X B 11	Х В 12	B 13	X	B 15	В	B 17	B 18	в	B 20
Yes No Yes No Precinct 3 Republican	X	X B	X B	X	X	U	Rete X B	X B 8	X B 9	B 10 Party	Mark X B 11	X B	В	X	В	В	В	в	в	В
Yes No Yes No Precinct 3 Republican Democratic	X B 1	Х В 2	Х В 3	X B 4	X B 5	U B 6	Rete X B	X B 8 Str	X B 9 aight	Х В 10	Mark X B 11	Х В 12	B 13	Х В 14	B 15	B 16	B 17	B 18	в	B 20
Yes No Yes No Precinct 3 Republican	X B 1	Х В 2	Х В 3	X B 4	X B 5	U B 6	Rete X B	X B 8 Str	X B 9 aight	B 10 Party	Mark X B 11	Х В 12	B 13	X	B 15	В	B 17	B 18	в	B 20

		Dros	idon	t/Vice	Dro	eidor	nt of tl	halln	itod S	tatos							
James Collins		X				X			X	X		Х	1	Х	Х		Х
Arthur Remus		^			^	~			~	~		^		^			^
Calvin Marino		1	Х					Х									
Keith Satterwhite																	
John P. Defazio											Х		Х				
Louis Denn																	
June Perkins				Х												Х	
David Heroux																	
Write-In																	
				Un	nited	State	es Ser	nator									
Colby Lincoln			Х		Х			Х		Х	Х	Х	Х		Х		Х
Oscar Draper		Х				Х			Х					Х			
Eric Sheely				Х												Х	
Write-In																	
		Re	epres	senta	tive i	in Co	ngres		' Disti	rict							
Lois Koss		Х		Х	Х	Х		Х		Х	Х		Х		U	Х	Х
William Sullivan			Х						Х					Х			
Write-In												Х					
1 1				overr		ieute	nant (nor				1	T	-		-
Joe Carlton Arnold Krill		Х	Х		Х			Х				Х		х		Х	
Charles Jasen		-		Х					Х						Х		Х
Kenneth									~								~
Interlicchio																	
Robert Marsh		1									Х		Х				
Theodore Kopp																	
Write-In						Х				Х							
	Re	prese	ntati	ve in	the (Gene	ral As	semb	bly 84	rd Dis	trict						
Peter Valle		Х		Х	Х	Х		Х		Х		Х		U	Х		
Neil Carey			Х						Х		Х		Х			Х	
Write-In																	Х
				Judge	e of t	he Sı	uperio	or Cou	urt								
Robert L. Linkey		Х	Х		Х			Х	Х		Х		Х	Х	Х		Х
Patricia Smallmon				Х		Х						Х				Х	
Write-In										Х							
1 1			Jud	ge of		Comr	nonw	ealth	Court						-		r
Chris Carpenter		Х	<u> </u>		Х			Х		Х		Х	Х		Х	Х	Х
Eugene Ruff	+	<u> </u>	Х	Х		Х					Х			Х			
Write-In			Ļ	L	Ļ				Х								
			Judg	e of t	he C	ourt	of Co	mmoi	n Plea	IS	1	1	1		-	1	
Mary L. Daniel	+ $+$	Х			L							U	Х	Х		Х	X
Jack "Duke"																	Х
Brodisky		Х	Х	Х	Х					Х	Х	U	Х	Х		Х	^
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Joanne Schollzert			X X	X X		X		X	Х	X	X U	U	×	X	X	X	
Joanne Schollzert Kerry Jones					X X	X X		X X				0	×	X	X X	×	
Joanne Schollzert Kerry Jones Write-In						X X	P		X	X X			×	X		X	
Joanne Schollzert Kerry Jones				X	X	X	U	X	Х			0	×	X		X	
Joanne Schollzert Kerry Jones Write-In Write-In			X	X	X	X Chief		X	Х	X				X	X	X	
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers				X Cor	X	X	U	X	X		U	U 	X				x x
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal		^ 	X	X	X	X Chief	U	X	Х	X				X 	X	X 	
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo			X	X Cor	X	X Chief	U	X	X	X	U				X		
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal			X	X Col X	x unty X	X Chief X	U Exec	x utive X	X	X	U				X		
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in		X	X	X Cor X	X unty X Coun	X Chief X	U	X cutive X	X	X	U	X	X	X	X	X	X
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel-			X	X Col X	x unty X	X Chief X	U Exec	x utive X	X	X	U				X		
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel-Lincoln		X	X X X	X Cor X	X unty X Coun	X Chief X	U Exec	X cutive X	X	X	U X	X	X	X	X X	X	X
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke		X	X	X Cor X	X unty X Coun	X Chief X	U Exec	X cutive X	X	x	U	X	X	X	X	X	X
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln		X	X X X		x unty X Coun X	Chief X ty Cc	U Exec	X Sutive X ler X	X	X	U X	X	X	X	X X	X	X
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Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In		X U			Local Country	Chief X ty Cc	U Exec	X Sutive X ler X	X X X	x	U X	X X	X X	X		X	X
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In Franklin Margo Donald Hensley		X	X X X	X Col X U	x unty X Coun X	Chief X ty Cc	U Exec	x cutive X ler X	X		U X X	X	X	x x	X X	X X	X
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In		X U		X Co X U	Lunty X Coun X Distr	Chief X Ty Co X	U FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection Fexe	x utive X ler X y X	x x x	x	U X X	X X	X X	x x		X X	X
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In Franklin Margo Donald Hensley Write-In		X U U X X X X	X X X X X	Con X X U U	Unity Country	X Chief X ty Cc X rict A	U Exec	ier X Sy Sion	x x x	X X X X	U X X	X X X X					X X X
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In Franklin Margo Donald Hensley Write-In			X X X X X	X Con X U U X Sch	X unty X Coun X Distr X Ool D X	X Chief X ty Cc X rict A X	U FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection Fexe	x utive X ler X gion	X X X	X X X X X	U X X U X	X X X X		x x			
Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In Franklin Margo Donald Hensley Write-In		X U U X X X X	X X X X X	Con X X U U	Unity Coun	X Chief X ty Cc X rict A	U FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection FExection Fexe	ier X Sy Sion	x x x	X X X X	U X X	X X X X					X X X

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

Test Results:

rest Results.	
D 1 11	
Precinct 1:	
Straight Party	2
Republican	3
Democratic	3
Green	0
Libertarian	2
Undervote	12
President/Vice President of th	a United States
James Collins	e United States
Arthur Remus	8
Calvin Marino	0
Keith Satterwhite	8
John P .Defazio	0
	0
Louis Denn	0
June Perkins	2
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
Clidervote	0
Representative in Congress D	istrict 5
Ben Baker	10
Barbara Barrett-Hicks	7
Write-In	2
Undervote	1
	-
Governor/Lieutenant Govern	or
Joe Carlton	
Arnold Krill	12
Charles Jasen	
Kenneth Interlicchio	7
Robert Marsh	
Theodore Kopp	0
Write-In	1
Undervote	0
Representative in the General	
Harry Rider	8
R.J. Abbott	7
Derek Carlson	2
Write-In	3
Undervote	0

Judge of Superior Court	
Robert L. Linkey	7
Patricia Smallmon	11
Write-In	1
Undervote	1
Judge of the Commonwealth (Court
Chris Carpenter	8
Eugene Ruff	9
Write-In	3
Undervote	0
Judge of the Court of Commo	n Pleas
Mary L. Daniel	11
Jack "Duke" Brodisky	10
Joanne Scholzert	9
Kerry jones	7
Write In	
Write-In	2
Undervote	1
a . a	
County Chief Executive	
Norman Powers	8
Micheal Santarcangelo	9
Write-In	2
Undervote	1
Childervote	
County Controller	
County Controller	
Paul M. Bertel-Lincoln	8
Donna Berke	8
Write-In	2
Undervote	2
District Attorney	
Franklin Margo	9
Donald Hensley	8
	0
Write-In	3
Undervote	0
School Director Region 6	
Gerald Danson	15
Shlomo Archibald	14
Write-In	7
Undervote	4
Childer vote	-
Commissioner Seat 1	
Stephen Harrick	12
	13
George Fisk	6
Write-In	1
Undervote	0
Statewide Referendum	
Yes	6
No	12
Undervote	2
Childervote	2
Retention of Tony Grzanich	
Yes	11
No	8
Undervote	1
D (A D D D D D D D D D D	
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 th	e United States
James Collins	control states
	10
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 D	istrict 5
Ben Baker	13
Barbara Barrett-Hicks	5
Write-In	1
Undervote	1
Governor/Lieutenant Governe	or
Joe Carlton	
Arnold Krill	13
Charles Jasen	
Kenneth Interlicchio	5
Robert Marsh	
	0
Theodore Kopp	
Write-In	1
Undervote	1
Representative in the General	
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
Index of the Comments 14	Const
Judge of the Commonwealth	
Chris Carpenter	13
Eugene Ruff	5
Write-In	1
Undervote	1
Judge of the Court of Commo	
Mary L. Daniel	13
Jack "Duke" Brodisky	9
Joanne Scholzert	7
Kerry jones	6
Write-In	

	4
Undervote	4 1
Undervote	
Undervote County Chief Executive	1
Undervote County Chief Executive Norman Powers	1 13
Undervote County Chief Executive	1

Undomoto	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	
Undervote	11
President/Vice President of th	e United States
James Collins	
Arthur Remus	10
Calvin Marino	
Keith Satterwhite	7
John P. Defazio	
Louis Denn	2
June Perkins	
David Heroux	1
Write-In Undervote	0 0
Undervote	v
United States Senator	
Colby Lincoln	11
Oscar Draper	6
Eric Sheely	1
Write-In	1
Undervote	1

Representative in Congress Di	
Ben Baker	8
Barbara Barrett-Hicks	10
Write-In	1
Undervote	1
Governor/Lieutenant Governo)r
Joe Carlton	
Arnold Krill	8
Charles Jasen	
Kenneth Interlicchio	8
Robert Marsh	
Theodore Kopp	3
Write-In Undervote	1 0
Representative in the General	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 (`ourt
Chris Carpenter	9
Eugene Ruff	8
Write-In	2
Undervote	1
Judge of the Court of Common	
Mary L. Daniel Jack "Duke" Brodisky	9 7
Joanne Scholzert	9
Kerry jones	8
Write-In	4
Undervote	3
County Chief Executive	10
Norman Powers	10
Micheal Santarcangelo Write-In	8 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
Detention of Dabbia Manha	
Retention of Debbie Marks	12
Yes No	13
Undervote	6
Undervote	1
Precinct 3:	
Straight Party	
Republican	4
Democratic	1
Green	2
Libertarian	2
Undervote	11
President/Vice President of th	le United States
James Collins	10
Arthur Remus	13
Calvin Marino	
Keith Satterwhite	3
John P. Defazio	
Louis Denn	2
June Perkins	
David Heroux	2
Write-In	0
Undervote	0
United States Senator	
Colby Lincoln	13
Oscar Draper	5
Eric Sheely	2
Write-In	0
Undervote	0
Childer vote	
Representative in Congress D	istrict 10
Lois Koss	14
William Sullivan	4
Write-In	1
Undervote	1
Governor/Lieutenant Govern	OF
Joe Carlton	
Arnold Krill	11
Charles Jasen	
Kenneth Interlicchio	5
Robert Marsh	
Theodore Kopp	2
Write-In	2
Undervote	0
Representative in the General	
Peter Valle	12
Neil Carey	6
Write-In	1
Undervote	1
Judge of Superior Court	
Robert L. Linkey	14

Patricia Smallmon	5
Write-In	1
Undervote	0
Judge of the Commonwealth	
Chris Carpenter	13
Eugene Ruff	6
Write-In	1
Undervote	0
Judge of the Court of Commo	
Mary L. Daniel	9
Jack "Duke" Brodisky	14
Joanne Scholzert	6
Kerry jones	4
Write-In	3
Undervote	4
Country Chief Fore and inc	
County Chief Executive	12
Norman Powers	13
Micheal Santarcangelo	7
Write-In Undervote	0 0
Undervote	V
County Controller	
Paul M. Bertel-Lincoln	12
Paul M. Bertel-Lincoln Donna Berke	5
Write-In	1
Undervote	2
Undervote	2
District Attorney	
Franklin Margo	9
Donald Hensley	9
Write-In	1
Undervote	1
Olidervote	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:	
Jummative 10tals.	
Straight Party	
Republican	12
Democratic	9
Green	5
0.0011	

Libertarian	7
Undervote	47
President/Vice President of th	e United States
James Collins	
Arthur Remus	44
Calvin Marino	
Keith Satterwhite	22
John P. Defazio	22
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
Donnocontetting in Company	
Representative in Congress Di	
Ben Baker	31
Barbara Barrett-Hicks	22
Write-In	4
Undervote	3
Representative in Congress Di	istrict 10
Lois Koss	14
William Sullivan	4
Write-In	1
Undervote	1
Undervole	1
G	
Governor/Lieutenant Governo	DE
Joe Carlton	
Arnold Krill	44
Charles Jasen	
Kenneth Interlicchio	25
Robert Marsh	
Theodore Kopp	5
Write-In	5
Undervote	1
Donnegontative in the Carl	A grambly District 92
Representative in the General	
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
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 Commo	
	- Dissa

Mary L.D aniel	42
Jack "Duke" Brodisky	40
Joanne Scholzert	31
Kerry jones	25
Write-In	13
Undervote	9
Undervote	7
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
Olidei vole	,
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
Olidei vole	15
a a	
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
Chider vole	2
Commissioner Seat 3	
	12
William Malicki	12
Arnold Wells	6
Write-In	1
Undervote	1
	-
Statewide Referendum	
Statewide Referendum Yes	27
Yes	27
Yes No	27 47
Yes No Undervote	27 47
Yes No Undervote Retention of Tony Grzanich	27 47 6
Yes No Undervote Retention of Tony Grzanich Yes	27 47 6 54
Yes No Undervote Retention of Tony Grzanich Yes No	27 47 6 54 22
Yes No Undervote Retention of Tony Grzanich Yes	27 47 6 54
Yes No Undervote Retention of Tony Grzanich Yes No Undervote	27 47 6 54 22
Yes No Undervote Retention of Tony Grzanich Yes No Undervote Retention of Debbie Marks	27 47 6 54 22 4
Yes No Undervote Retention of Tony Grzanich Yes No Undervote Retention of Debbie Marks Yes	27 47 6 54 22 4 9
Yes No Undervote Retention of Tony Grzanich Yes No Undervote Retention of Debbie Marks Yes No	27 47 6 54 22 4 4 27
Yes No Undervote Retention of Tony Grzanich Yes No Undervote Retention of Debbie Marks Yes	27 47 6 54 22 4 9

ATTACHMENT B

TEST CASES

TEST CASES

AutoMARK Ballot Marking Device

Test Case Id	entifier: 01 – 25 P.S. § 303	1.7(1) Voter Secrecy (ADA Voter)
PA ST 25 P.		(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 Object	ive: To determine if a vo	oter's Test Configuration: Ballot Marking Device (BMD) and precinct
	put using an ADA device ca	
	ing the act of voting, or or	
vote has been	i cast.	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 BMD and the precinct
		tabulation 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 BMD and the precinct tabulation device with a site
Test Equipm	ont.	line of 4 feet. See Step 1001. Standard 15+ foot tape measure
	edural Requirements:	Two roles are required for this test case: an ADA Voter role and an
special 110e	euurur requirementes.	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	5:	An election is loaded on the devices and the polls are open, ready for
Step		voting. Description
1000		Description
1000	Layout Diagram:	
		Tan Mau
		Top View
		BMD
		12'
	Veren	
	*	<u> </u>
	K	12' 12'
	Verify all measurements.	
	Expected: Center measureme	ent is 12 feet and the side distance observation points are approximately 17 feet.
	Actual:	

1001	
	ADA Voter Position: Side View
	Voter line of sight
	Verify all measurements.
	<i>Expected:</i> Center measurement is 12 feet and the side distance observation points are approximately 17 feet with a voter line of sight at 48 inches.
1010	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 ADA Voter's input from the right most position, the center position, and the left most position.
	ADA Voter Role - Use the supplied method to advance the ballot to a vote marked state. The only selection should be the upper most left hand position. All other selections are to be under voted.
	<i>Expected:</i> The Observer cannot determine the ADA Voter's input selections.
1020	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 ADA Voter's input from the right most position, the center position, and the left most position.
	ADA Voter Role - Use the supplied method to advance the ballot to a vote marked state. The only selection should be the upper most right hand position. All other selections are to be under voted.

	<i>Expected:</i> The Observer cannot determine the ADA 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 ADA Voter's input from the right most position, the center position, and the left most position.
	ADA Voter Role - Use the supplied method to advance the ballot to a vote marked state. The only selection should be the lower most left hand position. All other selections are to be under voted.
	<i>Expected:</i> The Observer cannot determine the ADA Voter's input selections.
	Actual:
1050	
1050	ADA Voter Role - Select the candidate corresponding to the lower most right hand position of the ballot presentation.
	Observer Role - Attempt to ascertain, both audibly and visually, the ADA Voter's input from the right most position, the center position, and the left most position.
	ADA Voter Role - Use the supplied method to advance the ballot to a vote marked state. The only selection should be the lower most right hand position. All other selections are to be under voted. After the ballot has been accepted, cast the ballot on the precinct tabulation device.
	Expected: The Observer cannot determine the ADA Voter's input selections.
	Actual:
	Evaluation of the Test Results: The observer must not be able to determine the Voter's selection
from any obs	ervation position or any Voter selection surface position.

Test Case Id	entifier: 02 – 25 P.S. § 303	1.7(2)	Selection of Candidates and Questions by Voter (Regular/ADA)
PA ST 25 P.S. § 3031.7		(2) P	Provides facilities for voting for such candidates as may be nominated
Requirement:		and i	upon such questions as may be submitted.
Test Objective: To determine if a voter			Test Configuration: Ballot Marking Device (BMD) and precinct
the ability to	select candidates and question	ons.	tabulation device are configured as described for normal election
			day operation by Pennsylvania procedures and/or the device manufacturer.
Test Equipn	ont.	None	
	edural Requirements:	None	
Assumptions	-		election is loaded on the device and the polls are open, ready for
rissumption	3 •	votin	· · ·
Step			Description
1000			•
	On the BMD, activate a ballo	t for vo	ting.
	<i>Expected:</i> The ballot is presen	nted and	d vote selections can be input.
	Arterati		
	Actual:		
1010			
1010	Select the first candidate in th	e first i	partisan contest excluding a straight party contest.
	Select the first candidate in th	ie mse j	partisan concest excluding a straight party concest.
	Expected: The BMD displays	or pro	vides an indication of a vote selection for the first candidate in the first
	partisan contest excluding a s		
	Actual:		
1020	I las the design stad mother day		and ha hallat to the first "NI of M?" contact - Calact the first "N" condidates in
	-		ce the ballot to the first "N of M" contest. Select the first "N" candidates in ontest the first two candidates would be selected).
	the contest. (e.g. in a vote for	Two c	onest me mist two candidates would be selected).
	Expected: The BMD advance	s to the	first "N of M" contest. Once selected, the BMD displays or provides an
	indication of a vote for the fir	st "N"	candidates in the first "N of M" contest.
	Actual:		
1030	The declaration of the decides	. 1	and a hall of a first "O cardia " canded O hadde "Wes" and a ha
	Use the designated method to contest.	advan	ce the ballot to the first "Question" contest. Select the "Yes" option in the
	contest.		
	Expected: The BMD advance	s to the	e first "Question" contest. Once selected, the BMD displays or provides an
			"Yes" option in the first "Question" contest.
	Actual:		
1040	Use the designated method to	advar	ce the ballot to the second "Question" contest. Select the "No" option in the
	contest.	auvälle	te me banot to the second Question contest. Select the No option in the

	<i>Expected:</i> The BMD advances to the second "Question" contest. Once selected, the BMD displays or provides an indication of a vote selection for the "No" option in the second "Question" contest. <i>Actual:</i>
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 accept the marked ballot. Then, on the precinct tabulation device, cast the voted selections.
	<i>Expected:</i> The BMD advances to the "Ballot Review" screen. After review, the ballot is accepted and is then cast successfully on the precinct tabulation device.
	Actual:
1060	Repeat steps 1000- 1050 from above using an ADA input device.
1070	Expected: Repeat 1000 Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1050 Actual:
1070	Disable voting on the BMD. Close the polls on the precinct tabulation device and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed. <i>Actual:</i>
1080	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>
Criteria for as input by th	Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported at tester.

I

Test Case Id	entifier: 03 – 25 P.S. § 3031.7	(3) Straight Party and Pennsylvania Method
PA ST 25 P.	S. § 3031.7 (3	B) Permits each voter, at other than primary elections, to vote a straight
Requiremen		olitical party ticket by one mark or act and, by one mark or act, to vote
. 1.		or all the candidates of one political party for presidential electors and,
		y one mark or act, to vote for all the candidates of one political party for
		very office to be voted for, and every such mark or act shall be
		quivalent to and shall be counted as a vote for every candidate of the
		olitical party so marked including its candidates for presidential
		lectors, except with respect to those offices as to which the voter has
		egistered a vote for individual candidates of the same or another
		olitical party or political body, in which case the automatic tabulating
		quipment shall credit the vote for that office only for the candidate
		dividually so selected, notwithstanding the fact that the voter may not
		ave individually voted for the full number of candidates for that office
Test Ohiest		or which he was entitled to vote.
•	ive: To determine if the voti	
	orts straight party voting and t	
Pennsylvania	Method.	operation by Pennsylvania procedures and/or the device
		manufacturer.
Test Equipn		one
	<u>+</u>	fone
Assumption		n election is loaded on the devices and the polls are open, ready for
<u>G</u> t	V	oting.
Step		Description
1000	On the DMD, action to a hallot for	
	On the BMD, activate a ballot fo	r voting.
	<i>Expected:</i> The ballot is presented	and vote selections can be input.
	A	
	Actual:	
1010		
	Select the option for the first part	ty selection of the straight party.
		provides an indication of a vote selection for the first party selection in the
	straight party contest.	
	Actual:	
1020		
	Use the designated method to ad-	vance through the ballot to each partisan contest. Observe all partisan contests
	for the indication of a voter selec	tion for all partisan candidates associated with the first straight party selection.
	Expected: The BMD displays or	provides an indication of a vote selection for all the partisan candidates in each
	contest associated with the first s	traight party selection.
	Actual:	
1030		
	Use the designated method to ad-	vance through the remainder of the ballots advancing to the ballot review screen.
		ot review observing only the partisan contests associated with the first straight
		the designated method to accept the marked ballot. Then, on the precinct
		ated method to cast the voted ballot.

	<i>Expected:</i> The BMD 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 accepted and is then cast successfully on the precinct tabulation device.
	Actual:
1040	On the BMD, activate a ballot for voting.
	<i>Expected:</i> The ballot is presented and vote selections can be input. <i>Actual:</i>
1050	Select the option for the second party selection of the straight party.
	<i>Expected:</i> The BMD displays or provides an indication of a vote selection for the second party in the straight party contest. <i>Actual:</i>
1060	Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contests for an indication of a voter selection for all partisan candidates associated with the second straight party selection.
	<i>Expected:</i> The BMD displays or provides an indication of a vote selection for all the partisan candidates in each contest associated with the second straight party selection. <i>Actual:</i>
1070	Use the designated method to retreat through the ballot selections to the first "N of M" contest. Select the first partisan candidate that is not the party associated with the second straight party selection. Leave the remainder of the selections under voted.
	<i>Expected:</i> "N" candidates for the party of the second straight party selections should display or provide an indication of the non-selection. The selected candidate should be the only selection displayed or indicated. <i>Actual:</i>
1080	Use the designated method to retreat through the ballot to the "Straight Party" contest. Observe the selection for the second straight party selection.
	<i>Expected:</i> The second straight party selections should be displayed or an indication given as selected. <i>Actual:</i>
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 accept the marked ballot. Then, on the precinct tabulation device, use the designated method to cast the voted ballot.
	<i>Expected:</i> The BMD 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 accepted. The ballot is then cast successfully on the precinct tabulation device.
	Actual:
1100	On the BMD, 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.
	<i>Expected:</i> The BMD 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.
	<i>Expected:</i> The BMD displays or provides an indication of a vote selection for all the partial candidates in each contest associated with the first straight party selection.
	Actual:
1130	Use the designated method to retreat through the ballot selections to the first "N of M" contest. Select the first partisan candidate that is associated with the first straight party selection. Leave this contest and the remainder of the selections under voted.
	<i>Expected:</i> "N" candidates for the party of the first straight party selections should display or provide an indication of the non-selection. The selected candidate should be the only selection displayed or indicated.
	Actual:
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 accept the marked ballot. Then, on the precinct tabulation device, use the designated method to cast the voted ballot. <i>Expected:</i> The BMD displays or indicates the selection for the partisan contests associated with the first straight
	Experience. The Diffe displays of 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 accepted and is then cast successfully on the precinct tabulation device.
	Actual:
1150	Repeat steps 1000- 1090 from above using an ADA input device.
	Expected: Repeat 1000 Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1030 Repeat 1040 Repeat 1040 Repeat 1050 Repeat 1060 Repeat 1070 Repeat 1080 Repeat 1090 Repeat 1090
	Actual:
1160	Disable voting on the BMD. Close the polls on the precinct tabulation device and print the closed polls report tape.
	Expected: The polls are 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
	put by the tester. The functionality of selecting a candidate of the same party or of a different party of
-	arty selection de-selects all candidates for the straight party vote

Test Case Id	lentifier: 04 – 25 P.S. § 303	1.7(4)	Straight Party and Write-In	
PA ST 25 P.			ermits each voter, at other than primary elections, to vote a ticket	
Requirements:			ted from the nominees of any and all political parties, from the	
•			nees of any and all political bodies, and from any persons whose	
			es are not in nomination and do not appear upon the official ballot.	
Test Objecti	ve: To determine if the voti		Test Configuration: Ballot Marking Device (BMD) and precinct	
•	orts straight party voting and	-	tabulation device are configured as described for normal election	
write-in.			day operation by Pennsylvania procedures and/or the device	
			manufacturer.	
Test Equipn	nent:	None		
Special Proc	edural Requirements:	None		
Assumption	s:	An e	lection is loaded on the devices and the polls are open, ready for	
		votin	g	
Step			Description	
1000				
	On the BMD, activate a ballo	t for vo	ting	
	<i>Expected:</i> The ballot is presen	nted and	d vote selections can be input.	
	Actual:			
1010				
	Select the option for the first	party se	election of the straight party.	
		or pro	vides an indication of a vote selection for the first party selection in the	
	straight party contest.			
	Actual:			
1020		1		
			ce through the ballot to each partisan contest. Observe all partisan contests	
		a voter	selection for all partisan candidates associated with the first straight party	
	selection.			
	Ernested, The PMD display	or pro	ovides an indication of a vote selection for all the partisan candidates in each	
	contest associated with the fir	-	-	
	contest associated with the hi	st straig	git party selection.	
	Actual:			
1030				
1000	Use the designated method to	advand	e through the remainder of the ballot advancing to the ballot review screen.	
	•		view observing only the partisan contests associated with the first straight	
			designated method to accept the cast ballot. Then, on the precinct	
			method to cast the voted ballot.	
		C		
	Expected: The BMD displays	or pro	vides an indication of the selection for only the partisan contests associated	
	—		After review, the ballot is accepted and is then cast successfully on the	
	precinct tabulation device.			
	Actual:			
1040				
	On the BMD, activate a ballo	t for reg	gular voting	

	<i>Expected:</i> The ballot is presented and vote selections can be input.				
	Actual:				
1050					
	Select the option for the first party selection of the straight party.				
	<i>Expected:</i> The BMD 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.				
	<i>Expected:</i> The BMD 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 partian contest. Use the designated method to accept the market ballot. Then, on the precinct tabulation device, use the designated method to cast the voted ballot.				
	<i>Expected:</i> The BMD 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. After review, the ballot is accepted and is then cast successfully on the precinct tabulation device.				
	Actual:				
1080					
	On the BMD, 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 BMD 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.				

	<i>Expected:</i> The BMD 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			
	Actual:			
1120	Disable voting on the BMD. Close the polls on the precinct tabulation device and print the closed polls report tape.			
	<i>Expected:</i> 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.			
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above.			
	Actual:			
Criteria for reported as in selection.	Evaluation of the Test Results: The intended selections input above are recorded, stored, and nput by the tester. The functionality of selecting a write-in candidate functions with a straight party			

Test Case Id	entifier: 05 – 25 P.S. § 303	1.7(5)	Selection of Candidate and Write-in
PA ST 25 P.S. § 3031.7 Requirements:		(5) P	Permits each voter to vote for any person and any office for whom and 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 votir system supports the selection of a candida and a write-in candidate.		ıg	Test Configuration: Ballot Marking Device (BMD) and precinct tabulation device are configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.
Test Equipm	nent:	None	
	edural Requirements:	None	
Assumptions			lection is loaded on the devices and the polls are open, ready for
Step			Description
1000	On the BMD, activate a ballo	t for vo	oting.
	<i>Expected:</i> The ballot is present	nted and	d vote selections can be input.
	Actual:		
1010	Select the option for the first candidate in the first partisan contest.		ate in the first partisan contest. vides an indication of a vote selection for the first candidate selection in the
	first partisan contest.	or pro	
1020	Observe the selection in the b	allot re method	ce through the remainder of the ballot advancing to the ballot review screen. eview, observing only the first candidate in the first partisan contest is I to accept the marked ballot. Then, on the precinct tabulation device, use ted ballot.
	<i>Expected:</i> The BMD displays or provides an indication of the selection for only the first candidate selection in first partisan contests. After review, the ballot is accepted and is then cast successfully on the precinct tabulation device.		
	Actual:		
1030	On the BMD, activate a ballo	t for vo	ting.
	<i>Expected:</i> The ballot is present	nted and	d vote selections can be input.
	Actual:		
1040	Select the option for a write-i Doe".	n candi	idate in the first partisan contest. Use the designed method to input "John
	Expected: The BMD displays	or pro	vides 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 accept the marked ballot. Then, on the precinct tabulation device, use the designated method to cast the voted ballot.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of the selection for only the write-in candidate "John Doe" in first partian contests. After review, the ballot is cast successfully on the precinct tabulation device.
	Actual:
1060	On the BMD, 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.
	<i>Expected:</i> The BMD 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- 1050 from above using an ADA input device.
	Expected: Repeat 1000 Repeat 1010 Repeat 1020 Repeat 1030 Repeat 1040 Repeat 1050
1090	
2070	Disable voting on the BMD. Close the polls on the precinct tabulation device and print the closed polls report tape.
	Expected: The polls closed and a report is printed.
	Actual:

1100	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	Expected: The closed polls report presents the accumulated totals for the selections input above.
	Actual:
	Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported ne tester. The functionality of selecting a candidate and a write-in candidate functions.

		1.7(7) Attempt to Over Vote Contests and Questions (Regular/ADA)	
PA ST 25 P.	S. § 3031.7	(7) If it is of a type that registers the vote electronically, the voting system	
Requirements:		shall preclude each voter from voting for more persons for any office than	
		he is entitled to vote for or upon any question more than once.	
	ive: To determine if the v		
•	ws over voting on contest		
questions		operation by Pennsylvania procedures and/or the device	
		manufacturer.	
Equipment:	- J	None	
-	edural Requirements:	None	
Assumptions	8:	An election is loaded on the devices and the polls are open, ready for voting.	
Step		Description	
1000			
	On the BMD, activate a ballo	ot for voting.	
	<i>Expected:</i> The ballot is prese	ented and vote selections can be input.	
	Actual:		
	Actual.		
1010			
1010	Select the first candidate in the	he first partisan "1 of 1" contest excluding a straight party contest.	
	Expected: The BMD 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			
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.		
	1		
	Expected: The BMD displays or provides an indication of an attempt to over vote. The BMD might disallow the		
	selection and not display any communication.		
	Actual:		
1030			
1050	Attempt to select the write-in	n option. Observe the action of attempting to input a write-in.	
	Expected: The BMD displays	s or provides an indication of an attempt to over vote. The BMD might disallow the	
	selection and not display any	communication.	
	Actual:		
10.40			
1040	Use the designated method to	a advance the ballot to the first "N of M" contact - Salast the first "N" condidates in	
	Use the designated method to advance the ballot to the first "N of M" contest. Select the first "N" candidates the contest. (e.g. in a Vote for Two contest the first two candidates would be selected).		
	ine contest. (e.g. in a vote 10)		
	<i>Expected</i> : The BMD advanc	ces to the first "N of M" contest. Once selected, the BMD 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 1030. Observe the action of attempting to place an over vote.
	<i>Expected:</i> The BMD displays or provides an indication of an attempt to over vote. The BMD 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.
	<i>Expected:</i> The BMD advances to the first "Question" contest. Once selected, the BMD 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 1050. Observe the action of attempting to place an over vote.
	<i>Expected:</i> The BMD displays or provides an indication of an attempt to over vote. The BMD 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 on the precinct tabulation device.
	<i>Expected:</i> The precinct tabulation device advances to the "Ballot Review" screen. After review and ballot is cast successfully.
	Actual:
1090	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:
1100	
	Disable the BMD. Close the polls on the precinct tabulation device and print the closed polls report tape.
	<i>Expected:</i> 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:
	Evaluation of the Test Results: The intended selections input above are recorded, stored, and
reported as in	nput by the tester. The attempts to select more persons than the vote for and any question more than
once are unsu	uccessful.

Test Case Id	entifier: 10 – 25 P.S. § 303	1.7(10) Ballot Review and Change (RegularADA)
PA ST 25 P. Requiremen Test Object system allo selections an cast of the ba	S. § 3031.7 ts: ive: To determine if the v ws the voter to review d change a vote selection b llot.	 (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 Configuration: Ballot Marking Device (BDM) and precinct tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.
Test Equipm		None
	edural Requirements:	None
Assumptions	5.	An election is loaded on the devices and the polls are open, ready for voting.
Step		Description
1000		Description
	On the BMD, activate a ballo <i>Expected:</i> The ballot is presen <i>Actual:</i>	t for voting. nted and vote selections can be input.
1010	Select the first candidate in the first all "1 of 1" contest excluding a straight party contest, the first "N" candidates in all "N of M" contests, and select the "Yes" option in all "Question" contests. <i>Expected:</i> The BMD allows for the navigation and the voting inputs to be selected as described above. <i>Actual:</i>	
1020	selections are indicated.	o advance the "Ballot Review". Observe the "Ballot Review" to see if the above es to the "Ballot Review" screen. The vote selections can be verified.
1030		retract to the first partisan "1 of 1" contest excluding the straight party contest
1040		election and select the second candidate.
	Expected: The BMD indicate	es the de-selection of the first candidate and the select of the second candidate.

	Actual:
1050	
1050	Use the designated method to advance to the first "Question" contest. De-select the "Yes" option and select the "No" option.
	<i>Expected:</i> The BMD 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 accept the market ballot. Then, on the precinct tabulation device, use the designated method to cast the voted selections.
	<i>Expected:</i> The BMD advances to the "Ballot Review" screen. After review, the ballot is accepted and is then 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	Disable voting on the BMD. Close the polls on the precinct tabulation device and print the closed polls report tape.
	<i>Expected:</i> 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.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above.
	Actual:
	Evaluation of the Test Results: The intended selections input above are recorded, stored, and
	put by the tester. The voter input can be changed by navigating through the ballot after a ballot has
been reviewe	d.

TEST CASES

DS200 Precinct Tabulator

Test Case Id	Test Case Identifier: 01 – 25 P.S. § 3031.7(1) Voter Secrecy		
PA ST 25 P.S. § 3031.7		(1) Provides for voting in absolute secrecy and prevents any person from	
Requirement:		seeing or knowing for whom any voter, except one who has received or is	
		receiving assistance as prescribed by law, has voted or is voting.	
Test Object	ive: To determine if a v	voters Test Configuration: Precinct tabulation device configured as	
	n be observed during the a		
	ce a vote has been cast.	procedures and or the device manufacturer.	
Test Equipm		None	
	edural Requirements:	A ballot test deck of 5 sequentially numbered ballots containing unique	
		voting pattern.	
Assumptions	5:	An election is loaded on the device and the polls are open, ready for	
		voting.	
Step		Description	
1000	Incost the ballet test deals into	the entired seen president tabulation device	
	insert the ballot test deck into	the optical scan precinct tabulation device.	
	<i>Expected:</i> The five ballots ar	e cast successfully	
	<i>Expected</i> . The five ballots a		
	Actual:		
1010			
	Close the polls and print the c	closed polls results report.	
	* *		
	<i>Expected:</i> The polls close and a results report is printed.		
	Actual:		
1020			
1020	20 Retrieve the ballot test deck. Examine each ballot to ensure the sequence in which the ballots were cast cannot		
		arks placed to identify the sequence).	
	be determined. (Ignore any m	and praced to raching the sequence).	
	<i>Expected:</i> The ballot test dec	k can be retrieved and the ballots have no identifying marks that would connect a	
	ballot with a voter.		
	Actual:		
1030			
		d (CVR) report from the optical scan precinct tabulation device. Compare each	
	vote cast record to the sequen	tial ballot test deck.	
	Expected. The optical gap provinct tobulation device is the target dury of OVD second. The OVD		
	<i>Expected:</i> The optical scan precinct tabulation device is able to produce a CVR report. The CVR contain no information that could identify a ballot to a voter.		
	Actual:		
Criteria for Evaluation of the Test Results: No determination can be made of a voter to a specific ballot.			

Test Case Id	entifier: 02 – 25 P.S. § 303	1.7(2) Selection of Candidates and Questions by Voter	
		(2) Provides facilities for voting for such candidates as may be nominated	
Requiremen	t:	and upon such questions as may be submitted.	
•	ive: To determine if a vote select candidates and question	U I I	
Test Equipm	nent:	None	
	edural Requirements:	None	
Assumptions	5:	An election is loaded on the device and the polls are open. The device is ready to accept ballots for scanning.	
Step		Description	
1000	Obtain a blank ballot.		
	<i>Expected:</i> The ballot is blank	and vote selections can be made.	
	Actual:		
1010	Vote for the first candidate in the first partisan contest excluding a straight party contest. The ballot must be marked in such a way as to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an appropriate marking utensil).		
	<i>Expected:</i> The ballot indicates a vote selection for the first candidate in the first partisan contest excluding a straight party contest. <i>Actual:</i>		
1020	On 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) by appropriately marking the ballot.		
	<i>Expected:</i> The ballot indicates a vote for the first "N" candidates in the first "N of M" contest. <i>Actual:</i>		
1030	On the first "Question" conte	st, select the "Yes" option in the contest by appropriately marking the ballot.	
	<i>Expected:</i> The ballot indicates a vote selection for the "Yes" option in the first "Question" contest. <i>Actual:</i>		
1040	On the second "Question" con	ntest, select the "No" option in the contest by appropriately marking the ballot.	
	<i>Expected:</i> The ballot indicate	s a vote selection for the "No" option in the second "Question" contest.	

	Actual:
1050	Review the ballot to verify that the above selections are marked.
	<i>Expected:</i> The correct selections are marked appropriately.
	Actual:
1060	Cast the ballot on the Optical Scan precinct tabulation device.
	<i>Expected:</i> The ballot is cast successfully.
	Actual:
1070	Close the polls and print the closed polls report tape.
	<i>Expected:</i> 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.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above.
	Actual:
Criteria for as input by th	Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported at tester.

Test Case Id	Test Case Identifier: 03 – 25 P.S. § 3031.7(3) Straight Party and Pennsylvania Method-				
			Permits each voter, at other than primary elections, to vote a straight		
			ical party ticket by one mark or act and, by one mark or act, to vote		
			<i>Il the candidates of one political party for presidential electors and,</i>		
			ne 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		
			valent to and shall be counted as a vote for every candidate of the		
			ical party so marked including its candidates for presidential ors, except with respect to those offices as to which the voter has		
			tered a vote for individual candidates of the same or another		
			ical party or political body, in which case the automatic tabulating		
			oment shall credit the vote for that office only for the candidate		
			individually so selected, notwithstanding the fact that the voter may not		
			individually voted for the full number of candidates for that office		
		V	hich he was entitled to vote.		
	ve: To determine if the v		Test Configuration: Optical Scan Precinct tabulation device		
* 11	orts straight party voting an	d the	configured as described for normal election day operation by		
Pennsylvania Test Equipm		None	Pennsylvania procedures and/or the device manufacturer.		
	edural Requirements:	None			
Assumptions			election is loaded on the device and the polls are open, ready for		
•			pting ballots.		
Step			Description		
1000	Obtain a blank ballot.				
	Expected: The ballot is blank	and vo	te selections can be made.		
	Actual:				
1010					
1010	Vote for the option for the fire	st nartv	selection of the straight party. The ballot must be marked in such a way as		
			teria for a mark (for example, the oval must be completely filled in with an		
	appropriate marking utensil).		······································		
	Frnected: The ballot indicate	s a vote	e selection for the first party selection in the straight party contest.		
	Especieu. The ballot multate		selection for the first party selection in the straight party contest.		
	Actual:				
1020					
	Review the ballot to verify the	at the a	bove selection is marked.		
	<i>Expected:</i> The correct selection is marked appropriately				
	Laperent. The context selection is indirect appropriately.				
	Actual:				
1030	Cast the ballot on the Optical Scan precinct tabulation device.				
	Expected: The ballot is cast successfully.				

	Actual:
1040	Obtain a blank ballot.
	<i>Expected:</i> The ballot is blank and vote selections can be made. <i>Actual:</i>
10.50	
1050	Vote for the option for the second party selection of the straight party. The ballot must be marked in such a way as to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an appropriate marking utensil).
	<i>Expected:</i> The ballot indicates a vote selection for the second party selection in the straight party contest. <i>Actual:</i>
1060	Review the ballot to verify that the above selection is marked.
	<i>Expected:</i> The correct selection is marked appropriately.
	Actual:
1070	On the first "N of M" contest, select the first partisan candidate that is not the party associated with the second straight party selection. Leave the remainder of the selections under voted.
	<i>Expected:</i> The selected candidate should be the only selection marked.
	Actual:
1080	
	Review the ballot to verify that the above selections are marked.
	Expected: The correct selections are marked appropriately.
	Actual:
1090	Obtain a blank ballot.
	<i>Expected:</i> The ballot is blank and vote selections can be made.
	Actual:
1100	

	Vote for the option for the first party selection of the straight party. The ballot must be marked in such a way as
	to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an
	appropriate marking utensil).
	Expected: The ballot indicates a vote selection for the first party selection in the straight party contest.
	Actual:
1110	
	On the first "N of M" contest, select the first partisan candidate that is associated with the first straight party
	selection. Leave the remainder of the selections under voted.
	<i>Expected:</i> The selected candidate should be the only selection marked.
	Actual:
1120	
	Review the ballot to verify that the above selections are marked.
	, , , , , , , , , , , , , , , , , , ,
	<i>Expected:</i> The correct selections are marked appropriately.
	Actual:
1130	
1150	Cast the ballot on the Optical Scan precinct tabulation device.
	<i>Expected:</i> The ballot is cast successfully.
	Actual:
1140	
	Close the polls and print the closed polls report tape.
	<i>Expected:</i> The polls closed and a report is printed.
	The second se
	Actual:
1150	
	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
	nput by the tester. The process of selecting a candidate of the same party or of a different party of the
	selection de-selects all candidates for the straight party vote.

Test Case Id	entifier: 04 – 25 P.S. § 303	31.7(4) Straight Party and Write-In		
PA ST 25 P.S. § 3031.7		(4) Permits each voter, at other than primary elections, to vote a ticket		
Requirements:		selected from the nominees of any and all political parties, from the		
		nominees of any and all political bodies, and from any persons whose		
Tost Obiosti	vot To datamaina if the voti	names are not in nomination and do not appear upon the official ballot. Test Configuration: Optical Scan Precinct tabulation device		
	ve: To determine if the voting orts straight party voting and			
write-in.	ons straight party voting and	Pennsylvania procedures and/or the device manufacturer.		
Test Equipn	ant.	None		
	edural Requirements:	None		
Assumptions		An election is loaded on the device and the polls are open, ready for		
	3 •	voting.		
Step		Description		
1000				
	Obtain a blank ballot.			
	<i>Expected:</i> The ballot is blank	and the vote selections can be made.		
	Actual:			
1010				
	-	rst party selection of the straight party. The ballot must be marked in such a way as iven criteria for a mark (for example, the oval must be completely filled in with an		
	appropriate marking utensil).			
	<i>Expected:</i> The ballot indicates a vote selection for the first party selection in the straight party contest.			
	Actual:			
1020				
	Review the ballot to verify th	hat the above selection is marked.		
	<i>Expected:</i> The correct selection is marked appropriately.			
	Actual:			
1030				
	Cast the ballot on the Optical	l Scan precinct tabulation device.		
	Expected. The hellot is cast successfully			
	<i>Expected:</i> The ballot is cast successfully.			
	Actual:			
1040	Obtain a klassis kall (
	Obtain a blank ballot.			
	<i>Expected:</i> The ballot is blank and the vote selections can be made.			

	Actual:
1050	Vote for the option for the first party selection of the straight party. The ballot must be marked in such a way as to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an appropriate marking utensil).
	<i>Expected:</i> The ballot indicates a vote selection for the first party selection in the straight party contest. <i>Actual:</i>
1060	On the first partisan contest, mark the ballot to indicate a write-in and input John Doe as the write-in name.
	<i>Expected:</i> The "Write-In" candidate John Doe appears. <i>Actual:</i>
1070	Cast the ballot on the Optical Scan precinct tabulation device.
	<i>Expected:</i> The ballot is cast successfully.
	Actual:
1080	Obtain a blank ballot.
	<i>Expected:</i> The ballot is blank and the vote selections can be made. <i>Actual:</i>
1090	Vote for the option for the first party selection of the straight party. The ballot must be marked in such a way as to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an appropriate marking utensil).
	<i>Expected:</i> The ballot indicates a vote selection for the first party selection in the straight party contest. <i>Actual:</i>
1100	On the first "Question" contest, mark both the "Yes" option and the "No" option (to over vote the ballot). <i>Expected:</i> Both the "Yes" and "No" options are marked.
	Actual:

1110	Cast the ballot on the optical scan tabulation device.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication.
	Actual:
1120	Close the polls and print the closed polls report tape.
	<i>Expected:</i> 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:
	Evaluation of the Test Results: The intended selections input above are recorded, stored, and put by the tester. The functionality of selecting a write-in candidate functions with a straight party

Test Case I	dentifier: 05 – 25 P.S. § 303	1.7(5)	Selection of Candidate and Write-in			
PA ST 25 P.S. § 3031.7			Permits each voter to vote for any person and any office for whom and			
Requirements:			for which he is lawfully entitled to vote, whether or not the name of such			
-		perso	person appears upon the ballot as a candidate for nomination or election.			
Test Objective: To determine if the votin			Test Configuration: Precinct tabulation device configured as			
system supports the selection of a candida			described for normal election day operation by Pennsylvania			
and a write-	in candidate.		procedures and/or the device manufacturer.			
Test Equip	ment:	None				
Special Pro	cedural Requirements:	None				
Assumption	ns:	An e	lection is loaded on the device and the polls are open, ready for			
S4 are		votin	ng. Description			
<u>Step</u> 1000			Description			
1000	Obtain a blank ballot.					
	<i>Expected:</i> The ballot is blank	and vo	te selections can be made.			
	Actual:					
1010	1					
	Vote for the option for the fir	st cand	idate in the first partisan contest. The ballot must be marked in such a way as			
	to meet the manufacturer's gi	ven cri	teria for a mark (for example, the oval must be completely filled in with an			
	appropriate marking utensil).					
	<i>Expected:</i> The ballot indicates a vote selection for the first candidate selection in the first partian contest.					
	Actual:					
1020	1					
		at the a	bove selection is marked. Cast the ballot on the Optical Scan precinct			
	tabulation device.					
	Expected: The correct select	ion is n	narked appropriately. The ballot is cast successfully			
	Actual:					
1030						
1030	Obtain a blank ballot.					
	<i>Expected:</i> The ballot is blank	and vo	te selections can be made.			
	Actual:					
1040	1					
		n candio	date in the first partisan contest. Use the designed method to input "John			
	Doe".					
	Expected: A mark is made to	indicat	e a vote selection for a write-in candidate with the name of "John Doe".			
	Experient. It mark to made to	maicat	a vote selection for a write in canadate with the name of sonil Dot .			
	Actual:	Actual:				

1050	
	Review the ballot, observing only the write-in candidate in the first partisan contest is marked. Use the designated method to cast the voted ballot.
	<i>Expected:</i> The ballot indicates the selection for only the write-in candidate "John Doe" in first partian contests. After review the ballot is cast successfully.
	Actual:
1060	Obtain a blank ballot.
	Expected: The ballot is blank and vote selections can be made.
	Actual:
1070	Mark 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.
	Expected: The ballot indicates write-in's of "John Doe
	Actual:
1080	Cast the ballot on the Optical Scan precinct tabulation device.
	Expected: The ballot is cast successfully.
	Actual:
1090	Close the polls and print the closed polls report tape.
	Expected: The polls closed and a report is printed.
	Actual:
1100	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above.
	Actual:
	Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported e tester. The functionality of selecting a candidate and a write-in candidate functions.

Test Case Id	entifier: 07– 25 P.S. § 3031	1.7(7) Attempt to Over Vote Contests and Questions	
PA ST 25 P.S		(7) If it is of a type that registers the vote electronically, the voting system	
Requirements:		shall preclude each voter from voting for more persons for any office than	
-		he is entitled to vote for or upon any question more than once.	
	ive: To determine if the v		
device allow	s over voting on contests		
questions		procedures and/or the device manufacturer.	
Equipment:		None	
	edural Requirements:	None	
Assumptions	:	An election is loaded on the device and the polls are open, ready for voting.	
Step		Description	
1000	Obtain a blank ballot.		
	<i>Expected</i> : The ballot is blank	and vote selections can be made.	
	-		
	Actual:		
1010			
		the first partisan "1 of 1" contest excluding a straight party contest. The ballot	
	must be marked in such a way as to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an appropriate marking utensil).		
	<i>Expected:</i> The ballot indicates a vote selection for the first candidate in the first partisan "1 of 1" contest excluding a straight party contest.		
	Actual:		
1020	Vote for the second candidate in the first partisan "1 of 1" contest ensure the contest is the same contest as voted in step 1010.		
	<i>Expected:</i> The ballot indicates a vote selection for the second candidate in the first partisan "1 of 1" contest excluding a straight party contest.		
	Actual:		
1030	Attempt to cast the ballot on the Optical Scan precinct tabulation device.		
	<i>Expected:</i> The ballot is rejected due to the over-vote condition. The precinct tabulation device displays or provides an indication of an attempt to over vote.		
	Actual:		
1040	Obtain a blank ballot.		

	<i>Expected:</i> The ballot is blank and vote selections can be made.
	Actual:
1050	Vote for the first candidate in the first partisan "1 of 1" contest.
	<i>Expected:</i> The ballot indicates a vote selection for the second candidate in the first partisan "1 of 1" contest excluding a straight party contest.
	Actual:
1060	Mark the write-in option for the same contest as in step 1050 and input the write-in "John Doe".
	<i>Expected:</i> The ballot indicates a vote selection for the write-in.
	Actual:
1070	Attempt to cast the ballot on the Optical Scan precinct tabulation device.
	<i>Expected:</i> The ballot is rejected due to the over-vote condition. The precinct tabulation device displays or provides an indication of an attempt to over vote.
	Actual:
1080	Obtain a blank ballot.
	<i>Expected:</i> The ballot is blank and vote selections can be made.
	Actual:
1090	On to the first "N of M" contest, mark the first "N" candidates in the contest. (e.g. in a Vote for Two contest the first two candidates would be marked).
	Expected: The ballot indicates a vote for the first "N" candidates in the first "N of M" contest.
	Actual:
1100	Mark the "N +1" candidate in the first "N of M" contest. Ensure the contest is the same contest as voted in step 1090.
	<i>Expected:</i> The ballot indicates a vote for the "N+1" candidate.
	Actual:

1110	Attempt to cast the ballot on the Optical Scan precinct tabulation device.			
	<i>Expected:</i> The ballot is rejected due to the over-vote condition. The precinct tabulation device displays or provides an indication of an attempt to over vote.			
	Actual:			
1120	Obtain a blank ballot.			
	Expected: The ballot is blank and vote selections can be made.			
	Actual:			
1130	On the first "Question" contest, mark the "Yes" option in the contest.			
	Expected: The ballot indicates a vote for the "Yes" option in the first "Question" contest.			
	Actual:			
1140				
1140	Mark the "No" option in the first "Question" contest. Ensure the contest is the same contest as voted in step 1130.			
	<i>Expected:</i> The ballot indicates a vote for the "No" option in the first "Question" contest.			
	Actual:			
1150				
	Attempt to cast the ballot on the Optical Scan precinct tabulation device.			
	<i>Expected:</i> The ballot is rejected due to the over-vote condition. The precinct tabulation device displays or provides an indication of an attempt to over vote.			
	Actual:			
1160				
	Close the polls and print the closed polls report tape.			
	Expected: The polls closed and a report is printed.			
	Actual:			
1170				
11/0	Review the closed polls report to ensure no votes are recorded and no ballots were scanned.			

	<i>Expected:</i> The closed polls report indicates zero totals.
	Actual:
	Actual:
Criteria for	Evaluation of the Test Results: The intended selections input above are recorded, stored, and
reported as in	nput by the tester. The attempts to select more persons than the vote for and any question more than
once are unsu	iccessful.

Test Case Id	entifier: 10 – 25 P.S. § 303	1.7(10) Ballot Review and Change	
PA ST 25 P.S. § 3031.7		(10) If it is of a type that registers the vote electronically, the voting	
Requiremen	ts:	system shall permit each voter to change his vote for any candidate or upon any question appearing on the official ballot up to the time that he takes the final step to register his vote and to have his vote computed. If it is of a type that uses paper ballots or ballot cards to register the vote and automatic tabulating equipment to compute such votes, the system shall provide that a voter who spoils his ballot may obtain another ballot; any ballot thus returned shall be immediately cancelled and at the close of the polls shall be enclosed in an envelope marked "Spoiled" which shall be sealed and returned to the county board.	
	ive: To determine if the v ws the voter to review	•	
	d change a vote selection b		
cast of the ba	•	procedures and/or the device manufacturer.	
Test Equipn		None	
	edural Requirements:	None	
Assumptions		An election is loaded on the device and the polls are open, ready for	
		voting.	
Step		Description	
1000			
	Obtain a ballot for voting <i>Expected:</i> The ballot is blank and vote selections can be made. <i>Actual:</i>		
1010	Vote for 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. The ballot must be marked in such a way as to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an appropriate marking utensil). <i>Expected:</i> The ballot indicates selections as described above.		
	Actual:		
1020	Cast the ballot on the optical scan precinct tabulation device.		
	<i>Expected:</i> The ballot is cast successfully.		
1030	Actual:		
1030	Obtain a ballot for voting		
	<i>Expected:</i> The ballot is blank and vote selections can be made.		
	Actual:		

1040	Vote for 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. The ballot must be marked in such a way as to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an appropriate marking utensil).			
	<i>Expected:</i> The ballot indicates selections as described above.			
	Actual:			
1050	Using the designated method, spoil the ballot.			
	<i>Expected:</i> The ballot is successfully spoiled and placed in the appropriate envelope.			
	Actual:			
1070	Obtain a ballot for voting to replace the ballot spoiled in Step 1050.			
	<i>Expected:</i> The ballot is blank and vote selections can be made.			
	Actual:			
1080	Vote for 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 "No" option in all "Question" contests. The ballot must be marked in such a way as to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an appropriate marking utensil).			
	<i>Expected:</i> The ballot indicates selections as described above.			
	Actual:			
1090	Cast the ballot on the optical scan precinct tabulation device.			
	<i>Expected:</i> The ballot is cast successfully.			
	Actual:			
1100	Close the polls and print the closed polls report tape.			
	<i>Expected:</i> 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. The results should indicate two votes for the first candidate in the first all "1 of 1" contest excluding a straight party contest, two votes for the first "N" candidates in all "N of M" contests, and one vote for the "Yes" option and one vote for "No" option in all "Question" contests.	
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above. <i>Actual:</i>	
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.		

record at the finish of its operation of the total number of voters ballots have been tabulated, the total number of votes cast for candidate whose name appears on the ballot, and the total num 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 allowTest Configuration: Optical Scan Precinct tabulation device configured as described for normal election day operation by	of the inisms of the ts are total ulation wented otes is ress of umber t shall on reject vided, city to tes for twe the			
Requirements: and tabulation of votes at the district level, the district component automatic tabulating equipment shall include the following methor or capabilities: (i) A public counter, the register of which is visible from the outside automatic tabulating equipment component into which the ballo entered, which shall show during any period of operation the number of ballots entered for computation and tabulation. (ii) A lock, or locks, by the use of which all operation of the tabul element of the automatic tabulating equipment is absolutely preimmediately after the polls are closed or where the tabulation of w completed. (iii) It shall be so constructed and controlled that, during the progravoting, it shall preclude every person from seeing or knowing the n of votes theretoffore registered for any candidate or question; and i preclude every person from tampering with the tabulating element. (iv)If the number of choices recorded on the ballot for that office or question, prothat if used during the period of voting it may also have the capatindicate to a voter that he has improperly voted for more candidate any office than he is entitled to vote for, and in such case it shall ha capacity to permit the voter to mark a new ballot or to fore; opportunity to make such correction. (v) It shall be equipped with an element which generates a printed at the beginning of its operation which verifies that the tabulation 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 Test Configured as described for normal election day operation by	of the inisms of the ts are total ulation wented otes is ress of umber t shall on reject vided, city to tes for twe the			
automatic tabulating equipment shall include the following mecha or capabilities: (i) A public counter, the register of which is visible from the outside automatic tabulating equipment component into which the ballo entered, which shall show during any period of operation the number of ballots entered for computation and tabulation. (ii) A lock, or locks, by the use of which all operation of the tabulating equipment is absolutely pre-immediately after the polls are closed or where the tabulation of w completed. (iii) It shall be so constructed and controlled that, during the progy voting, it shall preclude every person from seeing or knowing the n of votes theretofore registered for any candidate or question; and i preclude every person from tampering with the tabulating element. (iv) If the number of choices recorded for any office or on any questi exceeds the number of votich the voter is entitled to vote, it shall all choices recorded on the ballot for that office or question, prot that if used during the period of voting it may also have the capa indicate to a voter that he has improperly voted for more candidat any office than he is entitled to vote for, and in such case it shall ha capacity to permit the voter to mark a new ballot or to fore opportunity to make such correction. (v) It shall be equipped with an element which generates a printed at the beginning of its operation which weifies that the tabulating equiption and the total number of votes staff, or against, any question appearies on the total number of votes staff or condidate whose name appears on the ballot, and the total num votes cast for, or against, any question appearing on the ballot.	of the ts are total ulation wented otes is ress of umber t shall on reject vided, city to tes for twe the			
 (i) A public counter, the register of which is visible from the outside automatic tabulating equipment component into which the ballo entered, which shall show during any period of operation the number of ballots entered for computation and tabulation. (ii) A lock, or locks, by the use of which all operation of the tabu element of the automatic tabulating equipment is absolutely preimmediately after the polls are closed or where the tabulation of v completed. (iii) It shall be so constructed and controlled that, during the progruvoting, it shall preclude every person from seeing or knowing the n of votes theretofore registered for any candidate or question; and i preclude every person from tampering with the tabulating element. (iv) If the number of choices recorded for any office or on any questi exceeds the number for which the voter is entitled to vote, it shall all choices recorded on the ballot for that office or question, prothat if used during the period of voting it may also have the capa indicate to a voter that he has improperly voted for more candidat any office than he is entitled to vote for, and in such case it shall ha capacity to permit the voter to mark a new ballot or to fore opportunity to make such correction. (v) It shall be equipped with an element which generates a printed at the beginning of its operation of the total number of voters ballots have been tabulated, the total number of votes cast for candidate whose name appears on the ballot. Test Objective: To determine if the voting device has a public counter, and eascribed for normal election day operation by configured as described for normal election day operation by configured as described for normal election day operation by configured as described for normal election day operation by constructed and controlled position and each question and the counter are all set to zero and with an element which generates a precord at the finish of its operation of the	ts are total lation vented otes is ress of umber t shall on reject vided, city to tes for twe the			
entered, which shall show during any period of operation the number of ballots entered for computation and tabulation. (ii) A lock, or locks, by the use of which all operation of the tabulation of the automatic tabulating equipment is absolutely preimmediately after the polls are closed or where the tabulation of v. completed. (iii) I shall be so constructed and controlled that, during the progivoting, it shall preclude every person from seeing or knowing the n of votes theretofore registered for any candidate or question; and i preclude every person from tampering with the tabulating element. (iv) If the number of choices recorded for any office or on any questi exceeds the number for which the voter is entitled to vote, it shall all choices recorded on the ballot for that office or question, prot that if used during the period of voting it may also have the capa indicate to a voter that he has improperly voted for more candidat any office than he is entitled to vote for, and in such case it shall he capacity to permit the voter to mark a new ballot or to fore opportunity to make such correction. (v) I tshall be equipped with an element which generates a printed at the beginning of its operation and each question and the counter are all set to zero and with an element which generates a printed at the beginning of its operation of the total number of votes ballots have been tabulated, the total number of votes cast for candidate whose name appears on the ballot. Test Objective: To determine if the voting device has a public counter, does not allow Test Configured as described for normal election day operation by	total vented otes is ress of umber t shall on reject vided, city to tes for twe the			
number of ballots entered for computation and tabulation.(ii) A lock, or locks, by the use of which all operation of the tabu element of the automatic tabulating equipment is absolutely pre immediately after the polls are closed or where the tabulation of w completed.(iii) It shall be so constructed and controlled that, during the progr voting, it shall preclude every person from seeing or knowing the n of votes theretofore registered for any candidate or question; and i preclude every person from tampering with the tabulating element. (iv) If the number of choices recorded for any office or on any questi exceeds the number for which the voter is entitled to vote, it shall all choices recorded on the ballot for that office or question, pro that if used during the period of voting it may also have the capa indicate to a voter that he has improperly voted for more candida any office than he is entitled to vote for, and in such case it shall ha capacity to permit the voter to mark a new ballot or to fore; opportunity to make such correction. (v) It shall be equipped with an element which generates a printed i at the beginning of its operation which verifies that the tabu elements for each candidate position and each question and the counter are all set to zero and with an element which generates a for counter are all set to zero and with an element which generates a for candidate whose name appears on the ballot, and the total num 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 allowTest Configuration: Optical Scan Precinct tabulation device configured as described for normal election day operation by	llation vented otes is ress of umber t shall on reject vided, city to tes for twe the			
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Test Objective: To determine if the voting device has a public counter, does not allowTest Configuration: Optical Scan Precinct tabulation device configured as described for normal election day operation by	candidate whose name appears on the ballot, and the total number of			
device has a public counter, does not allow configured as described for normal election day operation by				
the reopening of the polls, and supplies a zero Pennsylvania procedures and/or the device manufacturer. The	IS			
proof and tally report. 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.				
<i>Expected:</i> The optical scan precinct tabulation device opens the polls and prints a "Zero Proof" report.	<i>Expected:</i> The optical scan precinct tabulation device opens the polls and prints a "Zero Proof" report.			
Actual:	Actual:			
1010 Obtain a blank ballot.				
<i>Expected:</i> The ballot is blank and vote selections can be made.				

	Actual:
1020	On the straight party contest, mark the first selection in the straight party contest.
	<i>Expected:</i> The ballot indicates a vote selection for the first selection in the straight party contest.
	Actual:
1030	Proceed to the optical scan precinct tabulation device. Observe the public counter value being 0.
	Expected: The optical scan precinct tabulation device's public counter is visible and the value is 0.
	Actual:
1040	Cast the ballot. Observe the acknowledgement of "successful" ballot cast, if provided. Observe the public counter incrementing by one.
	<i>Expected:</i> The optical scan 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.
	<i>Expected:</i> The polls closed and a report is printed.
	Actual:
1060	Use the designated method to attempt to reopen the polls.
	<i>Expected:</i> The polls cannot be reopened.
	Actual:
1070	Place lock on the optical scan precinct tabulation device per Pennsylvania Procedures to ensure all operation of the tabulation element is prevented.
	<i>Expected:</i> The optical scan precinct tabulation device can be 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 CASES

DS850 Central Scanner

Test Case Id	entifier: 02 – 25 P.S. § 303	1.7(2)	Selection of Candidates and Questions by Voter	
	PA ST 25 P.S. § 3031.7 (2) Provides facilities for voting for such candidates as may be nominated			
Requiremen				
	ve: To determine if a vote select candidates and question		Test Configuration: Central Scan tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.	
Test Equipm	Test Equipment: None			
Special Procedural Requirements: None				
Assumptions	:		lection is loaded on the device and the polls are open. The device is to accept ballots for scanning.	
Step			Description	
1000	Obtain a blank ballot.			
	<i>Expected:</i> The ballot is blank and vote selections can be made.			
	Actual:			
1010				
1010	Vote for the first candidate in the first partisan contest excluding a straight party contest. The ballot must be marked in such a way as to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an appropriate marking utensil).			
	<i>Expected:</i> The ballot indicates a vote selection for the first candidate in the first partial contest excluding a straight party contest.			
	Actual:			
1020	On 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) by appropriately marking the ballot.			
	<i>Expected:</i> The ballot indicates a vote for the first "N" candidates in the first "N of M" contest.			
	1011111.			
1030	On the first "Question" conte	st, selec	t the "Yes" option in the contest by appropriately marking the ballot.	
	<i>Expected:</i> The ballot indicates a vote selection for the "Yes" option in the first "Question" contest.			
	Actual:			
1040	On the second "Question" con	ntest, se	elect the "No" option in the contest by appropriately marking the ballot.	
	Expected: The ballot indicate	s a vote	selection for the "No" option in the second "Question" contest.	

	Actual:
1050	Review the ballot to verify that the above selections are marked.
	<i>Expected:</i> The correct selections are marked appropriately.
	Actual:
1060	Cast the ballot on the Central Scan tabulation device.
	Expected: The ballot is cast successfully.
	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:
	Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported e tester
as input by th	

Test Case Id	entifier: 03 – 25 P.S. § 303	1.7(3)	Straight Party and Pennsylvania Method		
PA ST 25 P.S. § 3031.7			ermits each voter, at other than primary elections, to vote a straight		
Requirements:			ical party ticket by one mark or act and, by one mark or act, to vote		
			ll the candidates of one political party for presidential electors and,		
		-	ne mark or act, to vote for all the candidates of one political party for		
			p office to be voted for, and every such mark or act shall be		
			valent to and shall be counted as a vote for every candidate of the		
			ical party so marked including its candidates for presidential		
			ors, except with respect to those offices as to which the voter has		
		0	tered a vote for individual candidates of the same or another		
			ical party or political body, in which case the automatic tabulating poment shall credit the vote for that office only for the candidate		
			idually so selected, notwithstanding the fact that the voter may not		
			individually voted for the full number of candidates for that office		
			hich he was entitled to vote.		
Test Objecti	ive: To determine if the v		Test Configuration: Central Scan tabulation device configured as		
	orts straight party voting an		described for normal election day operation by Pennsylvania		
Pennsylvania	Methhod.		procedures and/or the device manufacturer.		
Test Equipm		None			
	edural Requirements:	None			
Assumptions	S:		election is loaded on the device and the polls are open, ready for		
Stop		accep	bting ballots. Description		
Step 1000			Description		
1000	Obtain a blank ballot.				
	<i>Expected:</i> The ballot is blank and vote selections can be made.				
	Actual:				
1010					
			selection of the straight party. The ballot must be marked in such a way as		
	-	ven crit	teria for a mark (for example, the oval must be completely filled in with an		
	appropriate marking utensil).				
	<i>Expected</i> : The ballot indicate	s a vote	e selection for the first party selection in the straight party contest.		
	Lapecieus The curies indicate	. u 10 te			
	Actual:				
1020					
	Review the ballot to verify th	at the a	bove selection is marked.		
	Expected: The correct selection	on is m	arked appropriately		
	Actual:				
1030					
2000	Cast the ballot on the Central	Scan ta	abulation device.		
	Expected: The ballot is cast s	uccessf	ully.		

	Actual:			
1040	Obtain a blank ballot.			
	<i>Expected:</i> The ballot is blank and vote selections can be made.			
	Actual:			
1050	Vote for the option for the second party selection of the straight party. The ballot must be marked in such a way as to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an appropriate marking utensil).			
	<i>Expected:</i> The ballot indicates a vote selection for the second party selection in the straight party contest.			
	д <i>иш.</i>			
1060	Review the ballot to verify that the above selection is marked.			
	<i>Expected:</i> The correct selection is marked appropriately.			
	Actual:			
1070	On the first "N of M" contest, select the first partisan candidate that is not the party associated with the second straight party selection. Leave the remainder of the selections under voted.			
	<i>Expected:</i> The selected candidate should be the only selection marked.			
	Actual:			
1080	Review the ballot to verify that the above selections are marked.			
	<i>Expected:</i> The correct selections are marked appropriately			
	Actual:			
1090	Cast the ballot on the Central Scan tabulation device.			
	Expected: The ballot is cast successfully.			
	Actual:			
1100				

	Close the polls and print the closed polls report tape.
	<i>Expected:</i> 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.
	r i r i j
	<i>Expected:</i> 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 in	nput by the tester. The process of selecting a candidate of the same party or of a different party of the
straight party	selection de-selects all candidates for the straight party vote.

Test Case I	dentifier: 04 – 25 P.S. § 3031.7	.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 Objec	tive: To determine if the voting	
system supp in.	ports straight party voting and w	write- configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.
Test Equip	ment:	None
	cedural Requirements:	None
Assumption		An election is loaded on the device and the polls are open, ready for ballot scanning.
Step		Description
1000	Obtain a blank ballot.	
	<i>Expected:</i> The ballot is blank and	d the vote selections can be made.
	Actual:	
1010		
		party selection of the straight party. The ballot must be marked in such a way as to riteria for a mark (for example, the oval must be completely filled in with an
	<i>Expected:</i> The ballot indicates a v	vote selection for the first party selection in the straight party contest.
	Actual:	
1020	Review the ballot to verify that th	he above selection is marked.
	<i>Expected:</i> The correct selection is	is marked appropriately
	Actual:	
1030	Cast the ballot on the Central Sca	an tabulation device.
	<i>Expected:</i> The ballot is cast succe	cessfully.
	Actual:	
1040	Obtain a blank ballot.	
	<i>Expected:</i> The ballot is blank and	d the vote selections can be made.

	Actual:
1050	
	Vote for the option for the first party selection of the straight party. The ballot must be marked in such a way as to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an appropriate marking utensil).
	Expected: The ballot indicates a vote selection for the first party selection in the straight party contest.
	Actual:
1060	On the first partisan contest, mark the ballot to indicate a write-in and input John Doe as the write-in name.
	Expected: The "Write-In" candidate John Doe appears.
	Actual:
1070	Cast the ballot on the Central Scan tabulation device.
	Expected: The ballot is cast successfully.
	Actual:
1080	Obtain a blank ballot.
	<i>Expected:</i> The ballot is blank and the vote selections can be made.
	Actual:
1090	Vote for the option for the first party selection of the straight party. The ballot must be marked in such a way as to meet the manufacturer's given criteria for a mark (for example, the oval must be completely filled in with an appropriate marking utensil).
	Expected: The ballot indicates a vote selection for the first party selection in the straight party contest.
	Actual:
1100	On the first "Question" contest, mark both the "Yes" option and the "No" option (to over vote the ballot).
	<i>Expected:</i> Both the "Yes" and "No" options are marked.
	Actual:

1110	Cast the ballot on the Central scan tabulation device.
	<i>Expected:</i> The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication.
	Actual:
1120	Close the polls and print the closed polls report tape.
	<i>Expected:</i> 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.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above.
	Actual:
	r Evaluation of the Test Results: The intended selections input above are recorded, stored, and input by the tester. The functionality of selecting a write-in candidate functions with a straight party

Test Case I	dentifier: 05 – 25 P.S. § 3031.7((5) Selec	ction of Candidate and Write-in
PA ST 25 P.S. § 3031.7 Requirements:		(5) Pe	rmits each voter to vote for any person and any office for whom
1			r which he is lawfully entitled to vote, whether or not the name
		of suc	h person appears upon the ballot as a candidate for nomination
			ction.
Test Object	tive: To determine if the voting s	ystem	Test Configuration: Central Scan tabulation device
supports the selection of a candidate and a w		rite-in	configured as described for normal election day operation by
candidate.			Pennsylvania procedures and/or the device manufacturer.
Test Equip	ment:	None	
Special Pro	cedural Requirements:	None	
Assumptior			ection is loaded on the device and the polls are open, ready for
		ballot	scanning.
Step			Description
1000	Obtain a blank ballot.		
	<i>Expected:</i> The ballot is blank and v	vote sele	ctions can be made.
	Actual:		
1010			
	_		the first partisan contest. The ballot must be marked in such a way as or a mark (for example, the oval must be completely filled in with an
	<i>Expected:</i> The ballot indicates a vo	ote select	tion for the first candidate selection in the first partisan contest.
	Actual:		
1020	Review the ballot to verify that the device.	above s	election is marked. Cast the ballot on the Central Scan tabulation
	<i>Expected:</i> The correct selection is	marked	appropriately. The ballot is cast successfully
	Actual:		
1030	Obtain a blank ballot.		
	<i>Expected:</i> The ballot is blank and v	vote sele	ctions can be made.
	Actual:		
1040	Mark the option for a write-in cano Doe".	lidate in	the first partisan contest. Use the designed method to input "John
	Expected: A mark is made to indic	ate a vot	e selection for a write-in candidate with the name of "John Doe".
	Actual:		

1050	
	Review the ballot, observing only the write-in candidate in the first partisan contest is marked. Use the designated method to cast the voted ballot.
	<i>Expected:</i> The ballot indicates the selection for only the write-in candidate "John Doe" in first partian contests. After review the ballot is cast successfully.
	Actual:
1060	Obtain a blank ballot.
	<i>Expected:</i> The ballot is blank and vote selections can be made.
	Actual:
1070	Mark 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.
	Expected: The ballot indicates write-in's of "John Doe
	Actual:
1080	Cast the ballot on the Central Scan tabulation device.
	<i>Expected:</i> The ballot is cast successfully.
	Actual:
1090	Close the polls and print the closed polls report tape.
	Expected: The polls closed and a report is printed. Actual:
1100	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	<i>Expected:</i> The closed polls report presents the accumulated totals for the selections input above.
	Actual:

Test Case Id	entifier: 07– 25 P.S. § 3031	.7(7) Attempt to Over Vote Contests and Questions		
PA ST 25 P.		(7) If it is of a type that registers the vote electronically, the voting system		
Requirements:		shall preclude each voter from voting for more persons for any office than		
		he is entitled to vote for or upon any question more than once.		
	ive: To determine if the v			
	s over voting on contests			
questions		procedures and/or the device manufacturer.		
Equipment:		None		
	edural Requirements:	None		
Assumptions	S:	An election is loaded on the device and the polls are open, ready for ballot scanning.		
Step		Description		
1000	Obtain a blank ballot.			
	<i>Expected</i> . The ballot is blank	and vote selections can be made.		
	Expected. The ballot is blank	and vote selections can be made.		
	Actual:			
1010				
		the first partisan "1 of 1" contest excluding a straight party contest. The ballot		
	-	y as to meet the manufacturer's given criteria for a mark (for example, the oval must		
	be completely filled in with a	n appropriate marking utensil).		
	Expected: The ballot indicates a vote selection for the first candidate in the first partisan "1 of 1" contest			
	excluding a straight party contest.			
	Astrol			
	Actual:			
1020				
	Vote for the second candidate in step 1010.	e in the first partisan "1 of 1" contest ensure the contest is the same contest as voted		
	<i>Expected:</i> The ballot indica excluding a straight party con	tes a vote selection for the second candidate in the first partisan "1 of 1" contest test.		
	Actual:			
1030	Attempt to cast the ballot on t	he Central Scan tabulation device.		
	<i>Expected:</i> The ballot is rejected	ed due to the over-vote condition. The central scan tabulation device displays or		
	provides an indication of an a			
	Actual:			
1040				
	Obtain a blank ballot.			
	<i>Expected:</i> The ballot is blank	and vote selections can be made.		
	· · · · · · · · · · · · · · · · · · ·			

	Actual:
1050	Vote for the first candidate in the first partisan "1 of 1" contest.
	<i>Expected:</i> The ballot indicates a vote selection for the second candidate in the first partisan "1 of 1" contest excluding a straight party contest.
	Actual:
1060	Mark the write-in option for the same contest as in step 1050 and input the write-in "John Doe".
	<i>Expected:</i> The ballot indicates a vote selection for the write-in.
	Actual:
1070	Attempt to cast the ballot on the Central Scan tabulation device.
	<i>Expected:</i> The ballot is rejected due to the over-vote condition. The central scan tabulation device displays or provides an indication of an attempt to over vote.
	Actual:
1080	
	Obtain a blank ballot.
	<i>Expected:</i> The ballot is blank and vote selections can be made.
	Actual:
1090	On to the first "N of M" contest, mark the first "N" candidates in the contest. (e.g. in a Vote for Two contest the first two candidates would be marked).
	Expected: The ballot indicates a vote for the first "N" candidates in the first "N of M" contest.
	Actual:
1100	Mark the "N +1" candidate in the first "N of M" contest. Esure the contest is the same contest as voted in step 1090.
	<i>Expected:</i> The ballot indicates a vote for the "N+1" candidate.
	Actual:
1110	

	Attempt to cast the ballot on the Central Scan tabulation device.
	Attempt to cast the barlot on the Central Scan tabulation device.
	<i>Expected:</i> The ballot is rejected due to the over-vote condition. The central scan tabulation device displays or provides an indication of an attempt to over vote.
	Actual:
1120	Obtain a blank ballot.
	<i>Expected:</i> The ballot is blank and vote selections can be made.
	Experieu. The barlot is blank and vote selections can be made.
	Actual:
1130	
1150	On the first "Question" contest, mark the "Yes" option in the contest.
	<i>Expected:</i> The ballot indicates a vote for the "Yes" option in the first "Question" contest.
	Actual:
1140	
	Mark the "No" option in the first "Question" contest ensure the contest is the same contest as voted in step 1130.
	Expected: The ballot indicates a vote for the "No" option in the first "Question" contest.
	Actual:
	Actual.
1150	
	Attempt to cast the ballot on the Central Scan tabulation device.
	<i>Expected:</i> The ballot is rejected due to the over-vote condition. The central scan tabulation device displays or provides an indication of an attempt to over vote.
	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 no votes are recorded and no ballots were scanned.
	te test are closed poils report to ensure no totes are recorded and no banots were scamed.
	Expected. The closed polls report indicates zero totals
	<i>Expected:</i> The closed polls report indicates zero totals.

	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 I			(17) Public Counter, No Reopening of Polls, Media Security with	
PA ST 25 P. Requiremen	Tamper Proof Loc S. § 3031.7	ks and (17) and t the ta centr mech (i) It tamp (ii) If the m choic (iii) I candu able total numb ballo apped	Zero Proof and Tally Reports. If the voting system is of a type which provides for the computation abulation of all votes at a central counting center or if it provides for abulation of district totals at such a central counting center, the al automatic tabulating equipment shall include the following anisms or capabilities: t shall be constructed so that every person is precluded from ering with the tabulating element during the course of its operation. The number of choices for any office or on any question exceeds number for which the voter is entitled to vote, it shall reject all tes recorded on the ballot for that office or question. It shall have a means by which to verify that the counters for each idate position and for each question are all set to zero and shall be to generate a printed record of each election district showing the number of voters whose ballots have been tabulated, the total per of votes cast for each candidate whose name appears on the t, and the total number of votes cast for, or against, any question aring on the ballot. It may also be capable of generating cumulative	
Test Objecti	ve: To determine if the votin		<i>Test Configuration:</i> Optical Scan Precinct tabulation device	
device has a j	public counter, does not allo	W	configured as described for normal election day operation by	
the reopening of the polls, and supplies a		zero	Pennsylvania procedures and/or the device manufacturer. This	
proof and tally report. Test Equipment:		None	includes all security locks and seals.	
	edural Requirements:	None		
Assumptions		The election media is installed but the polls have not been opened.		
Step		1	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. <i>Expected:</i> The optical scan precinct tabulation device opens the polls and prints a "Zero Proof" report. <i>Actual:</i> 			
1010	Obtain a blank ballot.			
	<i>Expected:</i> The ballot is blank and vote selections can be made. <i>Actual:</i>			
1020	On the straight party contest, mark the first selection in the straight party contest.			
			e selection for the first selection in the straight party contest.	
1030	Proceed to the optical scan pr	ecinct t	abulation device. Observe the public counter value being 0.	

	<i>Expected:</i> The optical scan precinct tabulation device's public counter is visible and the value is 0.			
	Actual:			
1040	Cast the ballot. Observe the acknowledgement of "successful" ballot cast, if provided. Observe the public counter incrementing by one.			
	<i>Expected:</i> The optical scan 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.			
	<i>Expected:</i> 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 the optical scan precinct tabulation device per Pennsylvania Procedures to ensure all operation of the tabulation element is prevented.			
	<i>Expected:</i> The optical scan 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: Central Count Processing

Test Objective:

This test is designed to ensure a central count scanner to properly process a larger amount of ballots. The central counter scanner most have multi-feed protection, out stacking ability for ballots it is unable to process, and the ability to segregate ballots that require human intervention.

Test Configuration:

Central Scan tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.

Test Method:

An election definition will need to be created using the following requirements:

- $8\frac{1}{2}$ " X 14" ballot lengths
- 6 geographical subdivisions
- 1 split precinct
- 10 to 20 contests
- 10 candidates in 1 contests
- 1 "N of M" contest
- Actual names for candidates
- Support to outstack write-ins
- Support for Federal, State, and Local level offices

The test deck for this test will be created using the following formula:

- Number of ballots provided per precinct equal to ∑₁ⁿ x (where n is the number of options in the largest number contest on the ballot), plus two (to be left blank), plus one (to be overvoted) this is applied per political party in a primary.
- Ballots marked such that the vote distribution in each contest is ascending order. For example, in a contest with 5 candidates and a write-in:
- Position 1: 6 votes
- Position 2: 5 votes
- Position 3: 4 votes
- Position 4: 3 votes
- Position 5: 2 votes
- Position 6 (write-in): 1 vote
- There should be two ballots in each precinct which are blank.
- There should be one overvoted ballot per precinct.

The test deck should be run a be determined amount of times sufficient to determine the proper processing of the test deck. The actual number of times the test deck is to be run will be documented in the Test Protocol.

Criteria for Evaluation of the Test Results: All ballots are processed, recorded, stored, and reported as documented in the described test deck.