

COMMONWEALTH OF PENNSYLVANIA TEST PROTOCOL

FOR

EXAMINATION OF THE

ELECTION SYSTEMS & SOFTWARE (ES&S) EVS 5.2.0.0

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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 5.2.0.0 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 September 8, 2014 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
- Election Assistance Commission (EAC) 2005 Voluntary Voting System Guidelines (VVSG)
- 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

"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 July 16, 2014. In this letter, ES&S requested certification of the EVS 5.2.0.0 as a new voting system to be certified for use in the Commonwealth of Pennsylvania. On July 2, 2014 the Election Assistance Commission (EAC) issued their Grant of Certification of the EVS 5.2.0.0, signifying successful completion of conformance testing to the 2005 EAC Voluntary Voting System Guidelines (VVSG).

The EVS 5.2.0.0 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. The VAT Previewer and ExpressVote Previewer within the ElectionWare software provides jurisdictions the ability to preview the on-screen display and audio prompts prior to generating Election Day media.

• DS850 Central Tabulator

The DS850 is the central ballot scanner component of the EVS 5.2.0.0 voting system. The DS850 features an S-Curve design that guides the ballot through the scanning process and produces a digital image of the ballot or ExpressVote card for later viewing in the ElectionWare software.

• DS200 Precinct Tabulator

The DS200 is the precinct ballot scanner component of the EVS 5.2.0.0 voting system. The DS200 produces a digital image of the ballot or ExpressVote card for later viewing in the ElectionWare software.

• ExpressVote Universal Voting Systems

The ExpressVote Universal System is a universal solution designed to be used in all elections by all voters, including those with disabilities.

• ES&S AutoMARK

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

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.

Table 2.1 Software

Component Name	Version	Unique Identifier (digital signature or hash value)			
Election Management System (EMS)					
ElectionWare 4.6.0.0 TBD					
Election Reporting Manager (ERM)	8.11.0.0	TBD			
Removable Media Service	1.4.5.0	TBD			
Event Log Service	1.5.5.0	TBD			
VAT Previewer	1.8.6.0	TBD			
ExpressVote Previewer	1.4.0.0	TBD			
ES&S Tabulators					
DS850 Central Tabulator	2.10.0.0	TBD			
DS200 Precinct Tabulator	2.12.0.0	TBD			
Voter Assist Terminal					
AutoMARK	1.8.6.0	TBD			
Universal Voting System					
ExpressVote	1.4.0.0	TBD			

2.2 Hardware

This subsection contains a listing of the hardware being evaluated.

Table 2.2 Hardware

Component Name	Model/Version Number	Description
DS850 Central Tabulator	1.0	central ballot scanner for tabulation of mail-in ballots, absentee ballots or Election Day ballots
DS200 Precinct Tabulator	1.2,1.3	precinct ballot scanner component of the voting system
AutoMARK	1.0, 1.1, 1.3	ADA-compliant ballot marking device
ExpressVote	1.0	universal voting solution that provides voters with disabilities the same voting experience as others

2.3 Peripherals

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

Table 2.3 Peripherals

Part Name	Model/Version Number	Description
Okidata	C711	Ballot on Demand Printer
ExpressPass	1.1.0.0	Software utility to print activation cards
Toolbox	2.1.0.0	Software utility to make audio files
ExpressPass Printer	Microcon	ExpressPass printer
ExpressVote Peripherals	various	Headphones, keypad, QR scanner, sip-n-puff, rocker paddles
AutoMARK Peripherals	various	Headphones, rocker paddles, stylus, sip-n-puff

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 DS850 central ballot scanner, a DS200 precinct tabulator, an AutoMARK Voter Assist Terminal (VAT), an ExpressVote Universal Voting System and an EMS to be examined. The manufacturer must be prepared to load the firmware/software on the device. The manufacturer must be prepared to print pre-election 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.

Table 3.1 Documentation

Document Name	Version/Document	Revision	Issue Date
	Number		
1: System	Overview		
System Overview		9.0	4.22.2014
ES&S Voting System 5.2.0.0		9.0	4.22.2014
2: Operation	on Manuals		
AutoMARK System Operator's Guide	4.0		4.7.2014
DS200 Operator's Guide	6.00		4.18.2014

DS850 Operator's Guide	4.0		2.26.2014			
ES&S EVS Event Logging Service User's Guide	3.0		2.26.2014			
Election Reporting Manager User's Guide	7.0		4.2.2014			
ElectionWare Volume I: Administrator Guide	4.0		4.24.2014			
ElectionWare Volume II: Define User's Guide	5.0		4.25.2014			
ElectionWare Volume III: Design User's Guide	3.0		4.25.2014			
ElectionWare Volume IV: Deliver User's Guide	4.0		2.21.2014			
ElectionWare Volume V: Results User's Guide	2.0		2.21.2014			
ExpressPass Operator's Guide	4.0		3.20.2014			
ExpressVote Operator's Guide	4.0		3.20.2014			
Network Setup Guide		1.2	4.15.2014			
ES&S Voting System 5.2.0.0		1.2	4.13.2014			
3: Training						
ES&S Standards and Procedures		3.0	12.20.2013			
Personnel Deployment and Training Program		5.0	12.20.2013			
4: Setup and Repair Maintenance						
DS850 Maintenance Guide	3.0		2.26.2014			
AutoMARK System Maintenance Manual	2.1		4.4.2014			
DS200 Maintenance Guide	2.0		2.14.2014			
ExpressVote Maintenance Guide	2.3		2.7.2014			
5: System	Security					
Voting System Security Specification		4.0	2.21.2014			
ES&S Voting System 5.2.0.0		4.0	2.21.2014			
Hardening Procedures for the Election System		1.2	1.10.2014			
ES&S Voting System 5.2.0.0		1.2	1.10.2014			
AutoMARK System Security Specifications	AQS-18-5002-001-S	6	10.23.2013			

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
NTS Huntsville Operations Test Report:		
"National Certification Test Report for Certification Testing of the	T71379.01-01	June 20, 2014
Election Systems and Software EVS 5.2.0.0 Voting Systems, EAC	1/13/9.01-01	June 20, 2014
Certification Number – ESSEVS5200, 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 5.2.0.0 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:

DS850 Central Tabulator

- 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: 17 1107-A(17), 25 P.S. § 3031.7(17) Public Counter, No Reopening of Polls, Media Security with Tamper Proof Locks and Zero Proof and Tally Reports

• Test Case Identifier: Central Count Processing

ElectionWare

• Test Case Identifier: Election Management System (EMS)

DS200 Precinct Tabulator

- Test Case Identifier: 01 1107-A(2), 25 P.S. § 3031.7(1) Voter Secrecy
- 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(2), 25 P.S. § 3031.7(10) Ballot Review and Change
- Test Case Identifier: 16 − 1107-A(2), 25 P.S. § 3031.7(16) Public Counter, No Reopening of Polls, Media Security with Tamper Proof Locks and Zero Proof and Tally Reports

ES&S AutoMARK

- Test Case Identifier: 01 1107-A(2), 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(2), 25 P.S. § 3031.7(10) Ballot Review and Change (Regular/ADA)

ExpressVote Universal Voting Systems

- Test Case Identifier: 01 1107-A(2), 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(2), 25 P.S. § 3031.7(10) Ballot Review and Change (Regular/ADA)

System Intergration

- General Election
- Closed Primary

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 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
Р	resident of the United St	tates	Pr	esident of the United S	tates
	Vote for One			Vote for One	
James Collins			Barry Josey		
Alexander P. Bicket Calvin Marino					
Carol Koethen			Write-In		
Write-In					
United States Senator Vote for One			U	Inited States Senator Vote for One	
Bob Ford Allegheny County			Oscar Draper Cumberlar	nd County	
Colby Lincoln Delaware County			Carter McGaw Philadelph	ia County	
Write-In			Write-In		
Representat	ive in Congress District	Representative in Congress	Representa 5 th	tive in Congress	Represent
	for One	10 th District	_	e for One	Congress

Allegheny County Write-In	Cheryl Simon York County	Montgomery County	Vote for
Write-In	Laia Kasa	0 = .	One
	Lois Koss <i>Erie County</i>	Clinton Testo Centre County	William Sullivan
	Write-In	Write-In	Butler County
Governor		Governor	Write-In
Vote for One		Vote for One	
Dean Lindsey Allegheny County		Charles Jasen Montgomery County	
Don Etter Allegheny County		Shirley Henning Luzerne County	
Joe Carlton Washington County		Write-In	
Edwin Lewis Lancaster County			
Samuel Lawton Bucks County			
Write-In			
Lieutenant Governor Vote for One		Lieutenant Governor Vote for One	
Scott Montes Berks County		Sherman R. Bucher Philadelphia County	
Saul Currier Lehigh County		Richard V. Suits Cambria County	
Arnold Krill Lycoming County		Tabathia Song Allegheny County	
Write-In		Kenneth Interlicchio Philadelphia County	
		Write-In	
Representative in the General Assembly 83 rd District Vote for One	Representative in the General Assembly 84 th District Vote for One	Representative in the General Assembly 83 rd District Vote for One	Represent ative in the General Assembly 84 th
Harry Rider Cascade	Peter Valle <i>Muncy</i>	R. J. Abbott Shrewsbury	District Vote for One
Robert Tyrell McNett	Write-In	Peter F. Saxton Willamsport	Neil Carey
Write-In		Write-In	ewis
			Saul Currie <i>I</i> dred
			Write-In
Delegate to the National Convention Vote for Not More Than Thr		Delegate to the National Convention -5 th Electing 2 Males and 2 Females	

Gloria Dillion	Vote Not More Than Four
Heather Heidelbaugh	Vincent Seymour
Herbert Devine	(M) Committed to Barry Josey
George A. Fisk	(iii) committee to being coopy
Doris Shiddles	Toni Hamilton
Andre Ninia	(F) Committed to Calvin Marino
Brian Getz	()
Chad Snow	Sam Patel
Diane Rubin	(M) Committed to Barry Josey
Elizabeth Piazza	
	Robert Rocco
Write-In	(M) Committed to Calvin Marino
Write-In	
Write-In	Renee Cohn Jubelrier
	(F) Committed to Calvin Marino
	Morton Steele
	(M) Committed to Calvin Marino
	Mary Burke
	(F) Committed to Barry Josey
	Nyda E. Hambin
	(F) Committed to Barry Josey
	Write-In
	Write-In
	Write-In
	Write-In
Judge of the Superior Court	Judge of the Superior Court
Vote for One	Vote for One
Dishard Marian	Linda Conn
Richard Maxian	Linda Gapp
Philadelphia County	Cumberland County
Marjorie Hall	Patricia Smallmon
Delaware County	Allegheny County
Dolawaro Godiny	ranoghory county
Pohart I. Linkey	
INDUCTION OF THE PROPERTY OF T	Write-In
Robert L. Linkey Rucks County	Write-In
Bucks County	Write-In
Bucks County	Write-In
	Write-In
Bucks County	Write-In Judge of the Commonwealth Court
Bucks County Write-In	
Bucks County Write-In Judge of the Commonwealth Court Vote for One	Judge of the Commonwealth Court Vote for One
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter	Judge of the Commonwealth Court Vote for One Eugene Ruff
Bucks County Write-In Judge of the Commonwealth Court Vote for One	Judge of the Commonwealth Court Vote for One
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter	Judge of the Commonwealth Court Vote for One Eugene Ruff
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In Judge of the Court of Common Pleas	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In Judge of the Court of Common Pleas
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Mary L. Daniel	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Joanne Shollzert
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Mary L. Daniel Armstrong	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Joanne Shollzert Williamsport
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Mary L. Daniel Armstrong John Roy	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Joanne Shollzert Williamsport Kerry Jones
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Mary L. Daniel Armstrong	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Joanne Shollzert Williamsport
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Mary L. Daniel Armstrong John Roy Clinton	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Joanne Shollzert Williamsport Kerry Jones Williamsport
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Mary L. Daniel Armstrong John Roy Clinton Jack "Duke" Brodisky	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Joanne Shollzert Williamsport Kerry Jones Williamsport Steven Miller
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Mary L. Daniel Armstrong John Roy Clinton	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Joanne Shollzert Williamsport Kerry Jones Williamsport
Bucks County Write-In Judge of the Commonwealth Court Vote for One Chris Carpenter Montgomery County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Mary L. Daniel Armstrong John Roy Clinton Jack "Duke" Brodisky	Judge of the Commonwealth Court Vote for One Eugene Ruff Washington County Lewis Tese Luzerne County Write-In Judge of the Court of Common Pleas Vote for Not More Than Two Joanne Shollzert Williamsport Kerry Jones Williamsport Steven Miller

Sandra Reilly McNett Write-In School Director Region 6 Four Year Term Vote for Not More Than Two Gerald Danson Greg Ortiz Shlomo Archibald Delores DeVan Write-In Write-In Commissioner Seat 1 Commissioner Seat 2 Commissioner Seat 3	countered Santarcangelor Fairfield rles Place Gamble e-In Vote glas Stone ald Danson g Ortiz omo Archibald ores DeVan	Inty Chief Executive Four Year Term Vote for One School Director Region 6 Four Year Term for Not More Than Two			
Write-In County Chief Executive Four Year Term Vote for One Norman Powers Williamsport Sandra Reilly McNett Write-In School Director Region 6 Four Year Term Vote for Not More Than Two Gerald Danson Greg Ortiz Shlomo Archibald Delores DeVan Write-In Write-In Commissioner Seat 1 Seat 2 Commissioner Seat 3	Counter Santarcangelon Fairfield rles Place Gamble e-In Vote glas Stone ald Danson g Ortiz omo Archibald ores DeVan	Four Year Term Vote for One School Director Region 6 Four Year Term			
Write-In County Chief Executive Four Year Term Vote for One Norman Powers Williamsport Sandra Reilly McNett Write-In School Director Region 6 Four Year Term Vote for Not More Than Two Gerald Danson Greg Ortiz Shlomo Archibald Delores DeVan Write-In Write-In Commissioner Seat 1 Seat 2 Commissioner Seat 3	Counter Santarcangelon Fairfield rles Place Gamble e-In Vote glas Stone ald Danson g Ortiz omo Archibald ores DeVan	Four Year Term Vote for One School Director Region 6 Four Year Term			
County Chief Executive Four Year Term Vote for One Norman Powers Williamsport Sandra Reilly McNett Write-In School Director Region 6 Four Year Term Vote for Not More Than Two Gerald Danson Greg Ortiz Shlomo Archibald Delores DeVan Write-In Write-In Write-In Commissioner Seat 1 Seat 2 Commissioner Seat 3	neal Santarcangelo Fairfield rles Place Gamble e-In Vote glas Stone ald Danson g Ortiz omo Archibald ores DeVan	Four Year Term Vote for One School Director Region 6 Four Year Term			
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Delores DeVan Write-In Write-In Commissioner Seat 1 Seat 2 Show the seat 3 Commissioner Commissioner Seat 3	omo Archibald ores DeVan				
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Commissioner Commissioner Commissioner Seat 1 Seat 2 Seat 3	e-In		Delores DeVan		
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Seat 1 Seat 2 Seat 3	e-In				
	Commissioner	Commissioner	Commissi		
Vote for One Vote for One	Seat 1 Four Year Term Vote for One	Seat 2 Four Year Term Vote for One	ner Seat 3 Four Year		
Stephen Harrick Steve West William Malicki Geo	rge Fisk	Tetty Rogiers	Term Vote for		
Write-In Gary Klemann Writ	e-In	Write-In	One		
Write-In			Arnold Wells		
, who iii					
			Write-In		
Referendum A Bond Issue					
To promote and assure the preservation and improvement of essential rail pa shall section two of chapter one hundred eighteen of the laws of nineteen hu in the amount of two hundred fifty million dollars for capital facilities be approve	ndred seventy-four				
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
Pres	idente de los Estados U Vote por uno	Jnidos	Preside	Vote por uno	
James Collins			Barry Josey		
Alexander P. Bicket			Calvin Marino		
Carol Koethen			Por escrito		
Por escrito					
Ser	nador de los Estados Un Vote por uno	nidos	Senac	lor de los Estados Unido Vote por uno	os
Bob Ford Condado de	e Allegheny		Oscar Draper Condado de	Cumberland	
Colby Lincoln Condado de	e Delaware		Carter McGaw Condado de	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 Condado de York Lois Koss Condado de Erie Por escrito	5° C Vote Barbara Barret Hicks	e en el Congreso Distrito por uno Montgomery entre	Representar e en el Congreso 10.º Distrito Vote por uno William Sullivan Condado de Butler Por escrito
	Gobernador Vote por uno			Gobernador Vote por uno	
Dean Lindsey Condado de			Shirley Henning	Montgomery	
Joe Carlton	e Allegheny e Washington		Condado de Por escrito	Luzerne	
	e Lancaster				
Samuel Lawton Condado de Por escrito	e Bucks.				
	Vicegobergador Vote por uno			Vicegobergador Vote por uno	
Scott Montes Condado de	·		Sherman R. Bucher Condado de	·	
Saul Currier			Richard V. Suits		

Condado de Lehigh		Condado de Cambria	
Arnold Krill		Tabathia Song	
Condado de Lycoming		Condado de Allegheny	
Por escrito		Kenneth Interlicchio Condado de Filadelfia	
		Por escrito	
Representante en la Asamblea General 83.° Distrito Vote por uno	Representante en la Asamblea General 84.° Distrito Vote por uno	Representante en la Asamblea General 83.° Distrito Vote por uno	Representan e en la Asamblea General 84.° Distrito
Harry Rider Cascade	Peter Valle <i>Muncy</i>	R. J. Abbott Shrewsbury	Vote por uno Neil Carey
Robert Tyrell McNett	Por escrito	Peter F. Saxton Willamsport	Lew s
Por escrito		Por escrito	Saul Currier Eldr
1 of escrito		T of escino	ed
Delegado a la convención nacional	= 5 ° Distrito	Delegado a la convención nacional – 5.	Por escrito * Distrito
No vote por no más de tre		Elija 2 damas y 2 caballeros No vote por más de cuatro	. Distrito
Gloria Dillion Heather Heidelbaugh Herbert Devine George A. Fisk		Vincent Seymour (H) Committed to Barry Josey	
Doris Shiddles Andre Ninia Brian Getz		Toni Hamilton (M) Committed to Calvin Marino	
Chad Snow Diane Rubin Elizabeth Piazza		Sam Patel (H) Committed to Barry Josey	
Write-In Write-In		Robert Rocco (H) Committed to Calvin Marino	
Write-In		Renee Cohn Jubelrier (M) Committed to Calvin Marino	
		Morton Steele (H) Committed to Calvin Marino	
		Mary Burke (M) Committed to Barry Josey	
		Nyda E. Hambin (M) Committed to Barry Josey	
		Write-In Write-In Write-In Write-In	
Juez de la corte suprem 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	

Write-In					
Jue	ez de la corte del estad Vote por uno	0	Juez	de la corte del estado Vote por uno	
Chris Carpenter Condado de M	Montgomery		Eugene Ruff Condado de	Washington	
Write-In			Lewis Tese Condado de	Luzerne	
			Write-In		
Juez de la	a corte de primeras ins ote por no más de dos	stancias	Juez de la No	corte de primeras instar vote por más de dos	ncias
Mary L. Daniel Armstrong			Joanne Shollzert Williamsport		
John Roy <i>Clinton</i>			Kerry Jones Williamsport		
Jack "Duke" Brodisky <i>McNett</i>			Steven Miller <i>Lewis</i>		
Jon Young <i>Muncy</i>			Shirley Henning <i>Mill Creek</i>		
Vic Stabile <i>Gamble</i>			Por escrito Por escrito		
Por escrito			T of eseme		
Por escrito					
	e principal del condad érmino de cuatro años Vote por uno	o		principal del condado rmino de cuatro años Vote por uno	
Norman Powers Williamsport			Micheal Santarcangelo Fairfield		
Sandra Reilly <i>McNett</i>			Charles Place Gamble		
Por escrito			Por escrito		
Т	Director de la escuela Región 6 Érmino de cuatro años No vote por más de dos		Té	rector de la escuela Región 6 rmino de cuatro años o vote por más de dos	
Gerald Danson			Douglas Stone		
Greg Ortiz			Gerald Danson		
Shlomo Archibald			Greg Ortiz		
Delores DeVan			Shlomo Archibald		
Por escrito			Delores DeVan		
Por escrito			Por escrito		
			Por escrito		
Comisionado	Comisionado	Comisionado	Comisionado	Comisionado	Comisiona

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

Referéndum a nivel estatal

Asunto del bono

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

S

No

Precinct 1 REP	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В
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James Collins	Х				Х	Х	liesic	X	lile	X	Joiate	X		Х		U	Х	Х	
Alexander P.		Х					Χ								Х				Х
Bicket																			
Carol Koethen			Χ						Χ		Χ								
Write-In				Χ									Χ						
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Bob Ford	V	V	Х	\ \	V		Χ	V	Х			· ·	Х	\ \	Х	V			Х
Colby Lincoln Write-In	Х	Х		Х	X	Х		Х		Χ	Х	X		Х		Х	Х	Х	
wille-iii						Ren	resent	ative i	n Co	nares	s 5 th D	istrict					^		
Ben Baker	Х	Х	Х	Х	U	Кер	X	X	X	X		X	Х	Χ		Х	Χ		Х
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	1	1						G	over	nor									
Dean Lindsey				Χ			Χ				Χ		Χ			Χ			
Don Etter			Х		Х							Х			Х			Χ	
Joe Carlton	Х				1	Х			Х	Χ		1		Х			Х		ļ.,
Edwin Lewis	<u> </u>	Х		1				V				1	ļ	-	-	ļ	-	-	Х
Samuel Lawton Write-In		1	1	1	1			Х				+							1
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Scott Montes	1				Х			icater	iant (X	101	1		1	1	Х		U	Х
Saul Currier				Х					Х					Х					
Arnold Krill	Х		Х			Х	Х	Χ			Х	Х	Х		Χ				
Write-In		Χ															Χ		
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Harry Rider	Χ	Χ		Χ		Χ		Χ	Χ		Χ		Χ		Χ		Χ		Χ
Robert Tyrell			Х				Χ			Χ		Χ		Χ		Х			
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Gloria Dillion Heather	Х	X		X	X	Х		Х	Х	X	Х	X	Х		X	X		Х	X
Heidelbaugh		^			^					^		^			^	^			^
Herbert Devine		Х	Х	Х			Х	Χ	Х	Χ		Х	Х	Χ	Χ	U			Х
George A. Fisk	Χ				Χ								Χ					Χ	
Doris Shiddles			Χ						Χ			Χ							
Andre Ninia								Χ						Χ				Χ	
Brian Getz	Χ		Χ	Χ															
Chad Snow							Х					-		Х					
Diane Rubin					V		Χ					-							
Elizabeth Piazza Write-In					Х	~											Х		
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Richard Maxian					Х		X		U		X			Χ					Х
Marjorie Hall		Х			T	Х						1	Х		Х				T
Robert L. Linkey	Χ			Х				Χ		Χ		Χ				Χ	Χ	Χ	
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Mary L. Daniel John Roy	Х	X	1	^		^		X U	Х	Х	Х	+	Х		^	Х	U	X	_^
Jack "Duke"	Х	_^	Х	Х	X		Х	U	Х	Х	^	+	Х	Х	-	Х	U	^	Х
Brodisky	^		^	^	^		^		^	^			^	_ ^		^			^
Jon Young			Х	1	†		U				Х	Х		1	Х				t
Vic Stabile		1	1		Х		T .					† <u> </u>		Х					l
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Gerald Danson	Х		Х	Х		Х	301	X	lect	Ji Keç	X	1		Х	Х	U	Х		Х
Greg Ortiz	X		1		Х		Х			Х		Х	Х			Ü			
Shlomo Archibald		Х	Х	Х	Χ		Х	Χ	Х	Χ	Х		Χ		Х		Χ		Х
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Calvin Marino			X	Х	Х			Χ	Х	Χ		Х		Х	Х	Χ		Х	
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Oscar Draper Carter McGaw	Х	Х	Х	Х	Х	Х	X	Х	Х	Х	Х		Х	Х	Х	Х	Х	X	Х
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Charles Jasen	Х	X	Х	Х	Х	X	Х	Х			Х	X	X	Х	Х	X	Х	Х	
Shirley Henning Write-In		^				^		^	Х	Х						^			Х
vviite-iii						1		.ieuter	ant (nor			1					
Sherman R.				Х							<u> </u>	Х							Г
Bucher																			
Richard V. Suits							Χ						Χ					Χ	
Tabathia Song	Х								Х					Х		Χ			
Kenneth		Х	Х		Х	Х		Х			Χ				X		Х		Х
Interlicchio Write-In										Х									+
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Toni Hamilton	Х	Х	U	Х		Х		Χ	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Χ	L.,	X	Х	1	L.,	Х	U	L.
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Robert Rocco Renee Cohn	X	X	U	X	U	X	1	X	1		X	1	Х	X	X	1	X	U	+
Jubelrier	^	^		^	U	^		^			^			^	^		^		
Morton Steele	Х	U	1	Х	1	Х	1	Х	1		Χ	+	†	Х	Х	1	Х	†	+-
Mary Burke		Ť				Ť	Х		Х			Х		Ť	Ť	Х			Х
Nyda E. Hambin							Χ					Х				Х			Χ
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Patricia Smallmon	X	X	Х	Х	Х	Х	-	Х	Х	Х	Х	Х	U	Х	Х	Х	X	X	Х
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Joanne Shollzert	Х		Х	Х	X	X		X		Х		Х		X	Х		X	U	
Kerry Jones	Χ	Χ		Χ	Χ		Χ	Χ	Χ		Χ	Χ		Χ		Х	Χ	U	X
Steven Miller		Х				X			Χ		U		Χ		Χ				
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Greg Ortiz			Χ	Χ				Χ	Χ			Χ		Χ				Χ	
Shlomo Archibald	Χ	Χ		Χ	Х	Χ	Χ		Χ	Χ	Χ		Χ		Χ	X	Х	Χ	Χ
Delores DeVan	Χ				Х		Х				Χ			Х		X			Χ
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Kerry Jones			Х	Х	Х	U	Х	Х			X	Х	Х	Х		Х		Х	Х	Х
Steven Miller		Х					Х		Х	Χ				Х			Х			
Shirley Henning				Х						Χ		Х						Х		
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							Co	ounty	Chief	Exec	utive									
Micheal	Х		Х	Х		Х	Х		Х	Х	Х		Х		Х	Х		Х	Х	X
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Charles Place					Χ			Χ				X		Х			Х			
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Douglas Stone	Х		Х					Х			Х	Х				Х		Х		
Gerald Danson		Х	Х	Х	Х	Х				Х		Х	Х				Х	Х		X
Greg Ortiz	Х			Х					Х		Х					Х				
Shlomo Archibald		Х			Х		Х	Х	Х	Χ			Х	Х			Х		Χ	X
Delores DeVan						Χ	Χ							X	Х				Χ	
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Arnold Wells	Х	Χ	Χ	X	Χ	X	Χ		Х	Χ	X	Х	Χ	Χ	Χ	Х	Χ	Х	Х	X
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Precinct 3 Non Partisan	B 1	B 2	B 3	B 4	B 5
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Test Results:

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President of the United States
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	Mary L. Daniel	12

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Jack "Duke" Brodisky	11
Jon Young	5
Vic Stabile	3
Write-In	2
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Undervotes	4
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County Chief Executive	
Norman Powers	12
Sandra Reilly	6
Write-In	1
Undervotes	
Undervotes	1
GI ID: (D : (
School Director Region 6	
Gerald Danson	11
C O t	
Greg Ortiz	6
Shlomo Archibald	14
Delores DeVan	6
Write-In	1
Undervotes	2
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Commissioner Seat 1	
Stephen Harrick	16
Write-In	2
	2
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Referendum A	
Yes	12
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Undervote	3
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Precinct 1 DEM	
President of the United States	
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Calvin Marino Write-In Undervotes United States Senator Oscar Draper	12 1 1
Calvin Marino Write-In Undervotes United States Senator Oscar Draper Carter McGaw	12 1 1
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Calvin Marino Write-In Undervotes United States Senator Oscar Draper Carter McGaw Write-In Undervotes Representative in Congress 5t Barbara Barret Hicks Clinton Testo Write-In Undervotes	12 1 1 13 6 1 0 th District 13 6 1
Calvin Marino Write-In Undervotes United States Senator Oscar Draper Carter McGaw Write-In Undervotes Representative in Congress 5t Barbara Barret Hicks Clinton Testo Write-In Undervotes Governor	12 1 13 6 1 0 th District 13 6 1 0
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Calvin Marino Write-In Undervotes United States Senator Oscar Draper Carter McGaw Write-In Undervotes Representative in Congress 5t Barbara Barret Hicks Clinton Testo Write-In Undervotes Governor Charles Jasen Shirley Henning Write-In Undervotes Lieutenant Governor	12 1 13 6 1 0 th District 13 6 1 0 12 7 1 0
Calvin Marino Write-In Undervotes United States Senator Oscar Draper Carter McGaw Write-In Undervotes Representative in Congress 5t Barbara Barret Hicks Clinton Testo Write-In Undervotes Governor Charles Jasen Shirley Henning Write-In Undervotes Lieutenant Governor Sherman R. Bucher	12 1 13 6 1 0 th District 13 6 1 0 12 7 1 0 3
Calvin Marino Write-In Undervotes United States Senator Oscar Draper Carter McGaw Write-In Undervotes Representative in Congress 5t Barbara Barret Hicks Clinton Testo Write-In Undervotes Governor Charles Jasen Shirley Henning Write-In Undervotes Lieutenant Governor	12 1 13 6 1 0 th District 13 6 1 0 12 7 1 0
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Calvin Marino Write-In Undervotes United States Senator Oscar Draper Carter McGaw Write-In Undervotes Representative in Congress 5t Barbara Barret Hicks Clinton Testo Write-In Undervotes Governor Charles Jasen Shirley Henning Write-In Undervotes Lieutenant Governor Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio	12 1 13 6 10 th District 13 6 1 0 12 7 1 0 3 3 4 9
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Calvin Marino Write-In Undervotes United States Senator Oscar Draper Carter McGaw Write-In Undervotes Representative in Congress 5t Barbara Barret Hicks Clinton Testo Write-In Undervotes Governor Charles Jasen Shirley Henning Write-In Undervotes Lieutenant Governor Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In Undervotes Representative in the General	12 1 13 6 10 th District 13 6 1 0 12 7 1 1 0 3 3 4 9 1 0 1 Assembly 83rd District
Calvin Marino Write-In Undervotes United States Senator Oscar Draper Carter McGaw Write-In Undervotes Representative in Congress 5t Barbara Barret Hicks Clinton Testo Write-In Undervotes Governor Charles Jasen Shirley Henning Write-In Undervotes Lieutenant Governor Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In Undervotes Representative in the General R. J. Abbott	12 1 13 6 10 0 th District 13 6 1 0 12 7 1 0 3 3 4 9 1 0 1 Assembly 83rd District 12
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Calvin Marino Write-In Undervotes United States Senator Oscar Draper Carter McGaw Write-In Undervotes Representative in Congress 5t Barbara Barret Hicks Clinton Testo Write-In Undervotes Governor Charles Jasen Shirley Henning Write-In Undervotes Lieutenant Governor Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In Undervotes Representative in the General R. J. Abbott Peter F. Saxton	12 1 13 6 10 14 District 13 6 1 0 12 7 1 0 3 3 4 9 1 0 11 Assembly 83rd District 12 6
Calvin Marino Write-In Undervotes United States Senator Oscar Draper Carter McGaw Write-In Undervotes Representative in Congress 5t Barbara Barret Hicks Clinton Testo Write-In Undervotes Governor Charles Jasen Shirley Henning Write-In Undervotes Lieutenant Governor Sherman R. Bucher Richard V. Suits Tabathia Song Kenneth Interlicchio Write-In Undervotes Representative in the General R. J. Abbott	12 1 13 6 10 0 th District 13 6 1 0 12 7 1 0 3 3 4 9 1 0 1 Assembly 83rd District 12

Undervotes	1
Presidential Nomination Dele	egation
Vincent Seymour	8
Toni Hamilton	10
Sam Patel	9
	11
Robert Rocco	
Renee Cohn Jubelrier	9
Morton Steele	8
Mary Burke	5
Nyda E. Hambin	4
Write-In	5
Undervotes	11
Judge of the Superior Court	
Linda Gapp	6
Patricia Smallmon	12
Write-In	1
Undervotes	1
Judge of the Commonwealth	Court
Eugene Ruff	11
Lewis Tese	8
Write-In	Ö
Undervotes	1
ender votes	1
Indee of the Court of Court	on Places
Judge of the Court of Commo	
Joanne Shollzert	12
Kerry Jones	13
Steven Miller	6
Shirley Henning	5
Write-In	1
Undervotes	3
County Chief Executive	
Mishael Contamental	12
Micheal Santarcangelo	13
Charles Place	7
Write-In	0
Undervotes	0
School Director Region 6	
Douglas Stone	7
Gerald Danson	13
Greg Ortiz	6
Shlomo Archibald	11
Delores DeVan	3
Write-In	0
Undervotes	0
Commissioner Seat 1	
George Fisk	19
Write-In	0
Undervotes	1
onder votes	•
Referendum A	
	10
Yes	12
No	6
Undervote	2
Precinct 2 REP	
President of the United States	s
James Collins	11
	4
Alexander P. Bicket	
Carol Koethen	3
Alexander P. Bicket Carol Koethen Write-In Undervotes	

	
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United States Senator	_
Bob Ford	7
Colby Lincoln	12
Write-In	1
Undervotes	0
Representative in Congress	5th District
Ben Baker	16
Write-In	2
Undervotes	2
Chidervotes	2
Governor	
Dean Lindsey	5
Don Etter	5
Joe Carlton	7
Edwin Lewis	2
Samuel Lawton	1
Write-In	0
Undervotes	0
Lieutenant Governor	
Scott Montes	4
Saul Currier	
	5
Arnold Krill	9
Write-In	2
Undervotes	0
Representative in the Genera	al Assembly 83rd District
Harry Rider	13
Robert Tyrell	6
Write-In	1
Undervotes	0
Chidervotes	
D	Control of the Contro
Presidential Nomination Del	
Gloria Dillion	11
Heather Heidelbaugh	8
Herbert Devine	8
George A. Fisk	3
Doris Shiddles	4
Andre Ninia	4
Brian Getz	5
Chad Snow	3
Diane Rubin	3
Elizabeth Piazza	4
Write-In	5
Undervotes	2
Undervotes	2
Judge of the Superior Court	
Richard Maxian	5
Marjorie Hall	5
Robert L. Linkey	9
Robert L. Linkey Write-In	9
Write-In	
	1
Write-In Undervotes	1 0
Write-In Undervotes Judge of the Commonwealth	1 0 n Court
Write-In Undervotes Judge of the Commonwealth Chris Carpenter	1 0 n Court 17
Write-In Undervotes Judge of the Commonwealth Chris Carpenter Write-In	1 0 n Court 17 1
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Write-In Undervotes Judge of the Commonwealth Chris Carpenter Write-In Undervotes Judge of the Court of Commonwealth Mary L. Daniel	1 0 n Court 17 1 2 non Pleas 13
Write-In Undervotes Judge of the Commonwealth Chris Carpenter Write-In Undervotes Judge of the Court of Commonwealth Mary L. Daniel John Roy	1 0 n Court 17 1 2 non Pleas 13 6
Write-In Undervotes Judge of the Commonwealth Chris Carpenter Write-In Undervotes Judge of the Court of Commonwealth Mary L. Daniel John Roy Jack "Duke" Brodisky	1 0 n Court 17 1 2 non Pleas 13 6 13
Write-In Undervotes Judge of the Commonwealth Chris Carpenter Write-In Undervotes Judge of the Court of Comm Mary L. Daniel John Roy Jack "Duke" Brodisky Jon Young	1 0 n Court 17 1 2 non Pleas 13 6
Write-In Undervotes Judge of the Commonwealth Chris Carpenter Write-In Undervotes Judge of the Court of Commonwealth Mary L. Daniel John Roy Jack "Duke" Brodisky	1 0 n Court 17 1 2 non Pleas 13 6 13
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County Chief Executive	
Norman Powers	11
Sandra Reilly	8
Write-In	0
Undervotes	1
School Director Region 6	
Gerald Danson	12
Greg Ortiz	8
Shlomo Archibald	11
Delores DeVan	4
Write-In	2
Undervotes	3
Clidervotes	3
Commissioner Seat 2	
Steve West	15
Write-In	4
Undervotes	1
Undervotes	1
Referendum A	
Yes	15
No	3
Undervote	2
Chaci voic	~
Presinct 2 DEM	
Precinct 2 DEM	
President of the United State	es
Barry Josey	11
Calvin Marino	6
Write-In	2
Undervotes	1
United States Senator	
Oscar Draper	10
Carter McGaw	7
Write-In	2
Undervotes	1
Representative in Congress	5th District
Barbara Barret Hicks	13
Clinton Testo	5
Write-In	2
Undervotes	0
Chack votes	· ·
C	
Governor	
Charles Jasen	12
Shirley Henning	6
Write-In	2
Undervotes	0
Chaci voics	V
I instance of Control	
Lieutenant Governor	_
Sherman R. Bucher	5
Richard V. Suits	1
Tabathia Song	4
Kenneth Interlicchio	9
Write-In	1
Undervotes	0
Representative in the Gener	
R. J. Abbott	14
Peter F. Saxton	4
Write-In	
	1
Undervotes	1 1
Undervotes	1
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Undervotes Presidential Nomination Del Vincent Seymour	1 legation 7
Undervotes Presidential Nomination Del	1 legation

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dervotes 1
itad States Sanatan
ited States Senator
b Ford 5
lby Lincoln 11
ite-In 3
dervotes 1
presentative in Congress 10th District

Cheryl Simon	7
Lois Koss	12
Write-In	1
Undervotes	0
Chacivotes	· ·
Governor	
Dean Lindsey	5
Don Etter	5
Joe Carlton	7
Edwin Lewis	2
Samuel Lawton	1
Write-In	0
Undervotes	0
Olidervotes	0
Lieutenant Governor	
Scott Montes	9
Saul Currier	3
Arnold Krill	7
Write-In	1
Undervotes	0
Clidervotes	o de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
Representative in the Genera	l Assembly 84rd District
Peter Valle	15
Write-In	4
Undervotes	1
Chaci voies	1
Presidential Nomination Dele	oration
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
T 1	04
Judge of the Commonwealth	
Chris Carpenter	16
Write-In	1
Undervotes	3
	70
Judge of the Court of Commo	
Mary L. Daniel	11
John Roy	5
Jack "Duke" Brodisky	12
Jon Young	5
Vic Stabile	3
Write-In	2
Undervotes	2
County Chief Executive	-
Norman Powers	12
Sandra Reilly	8
Write-In	0
Undervotes	0
School Director Region 6	
Gerald Danson	10
Greg Ortiz	7

Shlomo Archibald	16
	16
Delores DeVan	7
Write-In	0
Undervotes	0
Commissioner Seat 3	
	40
William Malicki	13
Gary Klemann	6
Write-In	0
Undervotes	1
Undervotes	1
Referendum A	
Yes	12
No	5
Undervote	3
D	
Precinct 3 DEM	
President of the United States	
Barry Josey	7
Calvin Marino	11
Write-In	2
Undervotes	0
United States Senator	
Oscar Draper	11
Carter McGaw	8
Write-In	1
Undervotes	0
Undervotes	U
Representative in Congress 10	Oth District
William Sullivan	17
Write-In	
	2
Undervotes	1
Governor	
	**
Charles Jasen	11
Shirley Henning	7
Write-In	1
Undervotes	î
Undervotes	1
Lieutenant Governor	
Sherman R. Bucher	7
Richard V. Suits	2
Tabathia Song	3
Kenneth Interlicchio	6
Write-In	1
Undervotes	1
Representative in the General	Assembly 84rd District
Neil Carey	14
Saul Currier	5
Write-In	1
Undervotes	0
21130170105	·
D	
Presidential Nomination Dele	
Vincent Seymour	8
Toni Hamilton	10
Sam Patel	9
Robert Rocco	11
Renee Cohn Jubelrier	9
Morton Steele	8
	5
Mary Burke	
Nyda E. Hambin	4
Write-In	5
Undervotes	11
Clider (otes	•
Judge of the Superior Court	

1: 1 6	
Linda Gapp	6
Patricia Smallmon	13
Write-In	1
Undervotes	0
Judge of the Commonwealth	Court
Eugene Ruff	13
Lewis Tese	7
Write-In	Ö
Undervotes	$\overset{\circ}{0}$
Olidervotes	U .
T 1 64 G 4 6G	Di .
Judge of the Court of Comm	
Joanne Shollzert	13
Kerry Jones	13
Steven Miller	6
Shirley Henning	4
Write-In	3
Undervotes	1
County Chief Executive	
Micheal Santarcangelo	14
Charles Place	5
Write-In	
Undervotes	0
School Director Region 6	
Douglas Stone	7
Gerald Danson	11
Greg Ortiz	5
Shlomo Archibald	11
Delores DeVan	5
Write-In	
Undervotes	0
Commissioner Seat 3	
Arnold Wells	19
Write-In	1
Undervotes	0
Referendum A	
Yes	10
No	10
Undervote	0
Undervote	U
D	
Precinct 3 Non Partisan	
D a b b	
Referendum A	
Yes	2
No	2
Undervote	1
Cumulative Totals R	EP:
	 ·
President of the United State	20
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
Officer voice	•
D	Fil. District
Representative in Congress 5	DIN DISTRICT

Ben Baker Write-In	
	31
wnie-in	
	6
Undervote	3
D	104 Dt . t .
Representative in Congre	ss 10th District
Cheryl Simon	7
Lois Koss	12
Write-In	1
Undervote	0
Chidervote	
Governor	
Dean Lindsey	15
Don Etter	15
Joe Carlton	21
Edwin Lewis	6
Samuel Lawton	3
Write-In	0
Undervotes	0
Lieutenant Governor	
	17
Scott Montes	17
Saul Currier	12
Arnold Krill	25
Write-In	5
Undervotes	1
Chachiotes	•
Representative in the Ger	neral Assembly 83rd District
II D'I	
Harry Rider	25
Robert Tyrell	12
Write-In	3
Undervotes	0
D	and Associate Oded District
	neral Assembly 84rd District
Peter Valle	15
Write-In	4
Undervotes	1
Presidential Nomination 1	Delogation
Gloria Dillion	31
Heather Heidelbaugh	22
Herbert Devine	27
George A. Fisk	15
Doris Shiddles	13
Andre Ninia	14
	14
Brian Getz	13
Brian Getz	13
Brian Getz Chad Snow	13 12
Brian Getz	13
Brian Getz Chad Snow Diane Rubin	13 12 7
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza	13 12 7 9
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In	13 12 7 9 11
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza	13 12 7 9
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In	13 12 7 9 11
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes	13 12 7 9 11 6
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Coo	13 12 7 9 11 6
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes	13 12 7 9 11 6
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian	13 12 7 9 11 6
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall	13 12 7 9 11 6
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey	13 12 7 9 11 6 urt 16 14 26
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey	13 12 7 9 11 6 urt 16 14 26
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey Write-In	13 12 7 9 11 6 urt 16 14 26 3
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey	13 12 7 9 11 6 urt 16 14 26
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Con Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes	13 12 7 9 11 6 urt 16 14 26 3 1
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Con Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes	13 12 7 9 11 6 urt 16 14 26 3 1
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwea	13 12 7 9 11 6 urt 16 14 26 3 1
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwea Chris Carpenter	13 12 7 9 11 6 urt 16 14 26 3 1 1 alth Court 50
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwea Chris Carpenter Write-In	13 12 7 9 11 6 urt 16 14 26 3 1 1 alth Court 50 3
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwea Chris Carpenter Write-In	13 12 7 9 11 6 urt 16 14 26 3 1 1 alth Court 50 3
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwea Chris Carpenter	13 12 7 9 11 6 urt 16 14 26 3 1 1 alth Court 50
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cod Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwea Chris Carpenter Write-In Undervotes	13 12 7 9 11 6 urt 16 14 26 3 1 alth Court 50 3 7
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cod Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwea Chris Carpenter Write-In Undervotes	13 12 7 9 11 6 urt 16 14 26 3 1 alth Court 50 3 7
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwer Chris Carpenter Write-In Undervotes Judge of the Court of Cor	13 12 7 9 11 6 urt 16 14 26 3 1 alth Court 50 3 7
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwer Chris Carpenter Write-In Undervotes Judge of the Court of Cor Mary L. Daniel	13 12 7 9 11 6 urt 16 14 26 3 1 alth Court 50 3 7
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwea Chris Carpenter Write-In Undervotes Judge of the Court of Cor Mary L. Daniel John Roy	13 12 7 9 11 6 urt 16 14 26 3 1 1 alth Court 50 3 7
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwea Chris Carpenter Write-In Undervotes Judge of the Court of Cor Mary L. Daniel John Roy	13 12 7 9 11 6 urt 16 14 26 3 1 1 alth Court 50 3 7
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwea Chris Carpenter Write-In Undervotes Judge of the Court of Cor Mary L. Daniel John Roy Jack "Duke" Brodisky	13 12 7 9 11 6 urt 16 14 26 3 1 alth Court 50 3 7
Brian Getz Chad Snow Diane Rubin Elizabeth Piazza Write-In Undervotes Judge of the Superior Cor Richard Maxian Marjorie Hall Robert L. Linkey Write-In Undervotes Judge of the Commonwea Chris Carpenter Write-In Undervotes Judge of the Court of Cor Mary L. Daniel John Roy	13 12 7 9 11 6 urt 16 14 26 3 1 1 alth Court 50 3 7

*** ** **	
Write-In	4
Undervotes	6
County Chief Executive	
Norman Powers	35
Sandra Reilly	22
Write-In	1
Undervotes	2
School Director Region 6	
Gerald Danson	33
Geraid Danson	
Greg Ortiz	21
Shlomo Archibald	41
Delores DeVan	17
Write-In	3
Undervotes	5
Chactvoics	3
Commissioner Seat 1 REP	
Stephen Harrick	16
Write-In	2
Undervotes	2
2.1301 70105	-
a	
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	Î.
Chactvoics	•
Referendum A REP	
Yes	39
No	13
Undervote	8
Chacryote	
Cumulative Totals DI	EM:
President of the United States	
Barry Josey	24
Calvin Marino	29
Write-In	5
Undervotes	2
•	
United States Sanatan	
United States Senator	
Oscar Draper	34
Carter McGaw	21
Write-In	4
Undervotes	1
	1
Representative in Congress 50	th District
Representative in Congress 56 Barbara Barret Hicks	th District 26
Representative in Congress 56 Barbara Barret Hicks Clinton Testo	th District
Representative in Congress 56 Barbara Barret Hicks	th District 26 11
Representative in Congress 56 Barbara Barret Hicks Clinton Testo Write-In	th District 26 11 3
Representative in Congress 56 Barbara Barret Hicks Clinton Testo	th District 26 11
Representative in Congress 56 Barbara Barret Hicks Clinton Testo Write-In Undervotes	th District 26 11 3 0
Representative in Congress 56 Barbara Barret Hicks Clinton Testo Write-In Undervotes Representative in Congress 16	th District 26 11 3 0 Oth District
Representative in Congress 56 Barbara Barret Hicks Clinton Testo Write-In Undervotes Representative in Congress 16 William Sullivan	th District 26 11 3 0 0th District 17
Representative in Congress 56 Barbara Barret Hicks Clinton Testo Write-In Undervotes Representative in Congress 16	th District 26 11 3 0 Oth District
Representative in Congress 56 Barbara Barret Hicks Clinton Testo Write-In Undervotes Representative in Congress 16 William Sullivan Write-In	th District 26 11 3 0 0th District 17 2
Representative in Congress 56 Barbara Barret Hicks Clinton Testo Write-In Undervotes Representative in Congress 16 William Sullivan	th District 26 11 3 0 0th District 17
Representative in Congress 56 Barbara Barret Hicks Clinton Testo Write-In Undervotes Representative in Congress 16 William Sullivan Write-In Undervotes	th District 26 11 3 0 0th District 17 2
Representative in Congress 56 Barbara Barret Hicks Clinton Testo Write-In Undervotes Representative in Congress 16 William Sullivan Write-In Undervotes Governor	th District 26 11 3 0 Oth District 17 2 1
Representative in Congress 56 Barbara Barret Hicks Clinton Testo Write-In Undervotes Representative in Congress 16 William Sullivan Write-In Undervotes Governor Charles Jasen	th District 26 11 3 0 Oth District 17 2 1
Representative in Congress 56 Barbara Barret Hicks Clinton Testo Write-In Undervotes Representative in Congress 16 William Sullivan Write-In Undervotes Governor Charles Jasen	th District 26 11 3 0 Oth District 17 2 1
Representative in Congress 56 Barbara Barret Hicks Clinton Testo Write-In Undervotes Representative in Congress 16 William Sullivan Write-In Undervotes Governor	th District 26 11 3 0 Oth District 17 2 1

Undervotes	1
Lieutenant Governor	
Sherman R. Bucher	15
Richard V. Suits	6
Tabathia Song	11
Kenneth Interlicchio	24
Write-In	3
Undervotes	1
Undervotes	
Representative in the General	Assembly 83rd District
R. J. Abbott	26
Peter F. Saxton	10
Write-In	2
Undervotes	2
Representative in the General	Assembly 84rd District
Neil Carey	Assembly 64rd District
Saul Currier	5
Write-In	1
	0
Undervotes	U .
Presidential Nomination Deleg	
Vincent Seymour	23
Toni Hamilton	33
Sam Patel	27
Robert Rocco	35
Renee Cohn Jubelrier	26
Morton Steele	25
Mary Burke	14
Nyda E. Hambin	12
Write-In	14
Undervotes	31
Judge of the Superior Court	10
Linda Gapp	19
Patricia Smallmon	36
Write-In Undervotes	4
Olidervotes	
Judge of the Commonwealth (
Eugene Ruff	34
Lewis Tese	23
Write-In	1
Undervotes	2
Judge of the Court of Commo	n Pleas
Joanne Shollzert	38
Kerry Jones	37
Steven Miller	20
Shirley Henning	14
Write-In	4
Undervotes	7
C. A. CILLETT AND C.	
County Chief Executive	20
Micheal Santarcangelo	39
Charles Place	19
Write-In	
Undervotes	1
School Director Region 6	
Douglas Stone	17
Gerald Danson	36
Greg Ortiz	18
Shlomo Archibald	33
Delores DeVan	12
Write-In	2
Undervotes	2

Commissioner Seat 1 DEM
George Fisk 19 Write-In 0 Undervotes 1

Commissioner Seat 2 DEM

Tetty Rogiers 17 Write-In 1 Undervotes 2

Commissioner Seat 3 DEM

Arnold Wells 19 Write-In 1 0 Undervotes

Referendum A DEM

30 Yes 21 9 No Undervote

Cumulative Totals Non Partisan:

Referendum A

2 2 1 No Undervote

Election Definition: Pennsylvania Certification General Election

General Election Description:

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

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

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

Configuration:

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

Name: Pennsylvania Certification General Election Voting Devices: 1 machine for each precinct

Precincts: Precinct 1, Precinct 2 split into 2a and 2b, Precinct 3

Parties: Republican, Democratic, Green, Libertarian

Languages: English, Spanish

Totals Contests: 21 Contests as follows:

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

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

Derek Carlson	Write-In
Libertarian	
Write-In	
	Judge of the Superior Court
	Vote for One
Robert L .Linkey	
Republican	
5	
Patricia Smallmon Democratic	
Bomeorale	
Write-In	
	Judge of the Commonwealth Court
	Vote for One
Oberia Oceano anten	
Chris Carpenter Republican	
Republican	
Eugene Ruff	
Democratic	
Write-In	
Wille III	
	Judge of the Court of Common Pleas Vote for Not More Than Two
	Vote for Not More Than Two
Mary L. Daniel	
Republican	
Jack "Duke" Brodisky	
Republican	
January Cahallyant	
Joanne Schollzert Democratic	
Bomeorado	
Kerry Jones	
Democratic	
Write-In	
Write-In	
	County Chief Executive Four Year Term
	Four Year Term Vote for One
	VOIC 101 C110
Norman Powers	
Republican	
Micheal Santarcangelo	
Democratic	
Write-In	
	County Controller
	Four Year Term
	Vote for One
Paul M Bertel-Lincoln	
Republican	

Donna Berke Democratic Write-In **District Attorney** Four Year Term Vote for One Franklin Margo Republican **Donald Hensley** Democratic Write-In **School Director** Region 6 Four Year Term Vote for Not More Than Two Gerald Danson Republican/Democratic Shlomo Archibald Republican/Democratic Write-In Write-In Commissioner Commissioner Commissioner Seat 1 Seat 2 Seat 3 Four Year Term Four Year Term Four Year Term Vote for One Vote for One Vote for One Stephen Harrick Steve West William Malicki Republican Republican Republican Arnold Wells George Fisk **Tetty Rogiers** Democratic Democratic Democratic Write-In Write-In Write-In Statewide Referendum Water and Sewer Improvements Bond Referendum

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

Yes

No

Retention of Tony Grzanich

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

Yes

No												
	Retention of	Debbie Marks										
Shall Debbie Marks be reta	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									
2.00												
Daniel Page												
Verde												
Libertario												
	Presidente/Vicepresiden	te de los Estados Unidos										
	Vote para el candidato de un partic	do para presidente y vicepresiden	te									
Retention of Debbie Marks Shall Debbie Marks be retained for an additional term as Justice of the Supreme Court of the Commonwealth of Pennsylvania? Yes No Ipanish Distrito electoral 1 Distrito electoral 2a Distrito electoral 2b Distrito electoral 3 Partido integro Republicano Democrata Verde Libertario Presidente/Vicepresidente de los Estados Unidos Vote para el candidato de un partido para presidente y vicepresidente o inserte los nombres de los candidatos Arthur Remus Republicano Calvin Marino Keith Satterwhite Democrata John P. Defazio Louis Denn Verde June Partins David Herous Libertario Por escrito Senador de los Estados Unidos Vote por uno Colby Lincoln Republicano Oscar Draper Demócrata Bric Sheely Libertario Por escrito Representante en el Congreso Se Distrito Representante en el Congreso												
Arthur Remus												
Calvin Marino Keith Satterwhite												
Demócrata												
John P. Defazio Louis Denn												
June Perkins												
Por escrito												
	Vote p	por uno										
Oscar Draper Demócrata												
Eric Sheely <i>Libertario</i>												
Por escrito												
	Representante en el Congreso		Representante en el									
	Vote por uno		10.° Distrito									
Ben Baker			Vote por uno									
Republicano			Lois Koss									

			Republicano
Barbara Barret Hicks Demócrata			William Sullivan Demócrata
Por escrito			Por escrito
	Gobernador/v	ricegobernador	
V	ote para el candidato de un partid	o para gobernador y vicegoberna	ador
Joe Carlton Arnold Krill Republicano			
Charles Jasen Kenneth Interlicchio <i>Demócrata</i>			
Robert Marsh Theodore Kopp <i>Verde</i>			
Por escrito			
Representante en 83.°	la Asamblea General Distrito	Representante en 84.°	la Asamblea General Distrito
	por uno		por uno
Harry Rider <i>Republicano</i>		Peter Valle Republicano	
R. J. Abbott <i>Demócrata</i>		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			
Por escrito			
	I J. 1	wto dol ootodo	
		orte del estado por uno	
Chris Carpenter Republicano			
Eugene Ruff <i>Demócrata</i>			
Por escrito			
	Juez de la corte de No vote poi	primeras instancias r más de dos	
Manul Daniel			

Republicano	
Jack "Duke" Brodisky	
Republicano	
Joanne Schollzert	
Demócrata	
Domoordia	
Kerry Jones	
Demócrata	
Por escrito	
Por escrito	
Por escrito	
	Jefe principal del condado
	Término de cuatro años
	Vote por uno
5	
Norman Powers Republicano	
керивіісано	
Micheal Santarcangelo	
Demócrata	
Por escrito	
	Contralor del condado
	Término de cuatro años
	Vote por uno
Paul M Bertel-Lincoln	
Republicano	
Donna Berke	
Demócrata	
Por escrito	
	Procurador del distrito
	Término de cuatro años
	Vote por uno
Franklin Margo	
Republicano	
Donald Hensley	
Demócrata	
Por escrito	
	Diverter de la constala
	Director de la escuela Región 6
	Término de cuatro años
	No vote por más de dos
	r
Gerald Danson	
Republicano/Demócrata	
Chloma Arabibald	
Shlomo Archibald Republicano/Demócrata	
периынсано/ретистата	
Por escrito	
Por escrito	

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

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

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

Sí

No

Retención de Tony Grzanich

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

Sí

No

Retención de Debbie Marks

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

Sí

No

Voting Pattern:

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

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

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

Louis Denn	т т	т —	T	$\overline{}$	$\overline{}$	т —		$\overline{}$		1	1		ſ	l	Т	Т	1
June Perkins	+ + -	+	-	_	X	 						Х			+		
David Heroux					^							^					
Write-In	+ + -	+													+	Х	
vviite iii			<u></u>	Ur	nited	State	es Sen	ator		<u> </u>			l	1		1.//	1
Colby Lincoln		Т	Х	T		T	-			Х			Х		T	Т	1
Oscar Draper	+ + + -	+	<u> </u>	Х	1			Χ	Χ	-	Х	Х		Χ	Х	Х	
Eric Sheely		+			Х		<u> </u>								+	+	
Write-In		1				Х									1	1	Х
		R	epre	senta	ative	in Co	ongres	ss 5 th	Distr	ict							
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R	eprese	entati	ve in	the (Gene	ral As	semb	ly 84	ra Dis	trict					1	
Peter Valle	X		Х	Х	Χ		Χ		Χ		Χ		U	Χ		
Neil Carey		Χ						Χ		Χ		Χ			Χ	
Write-In																Х
·		,	Judge	e of t	he Sı	ıperio	r Cou	ırt								
Robert L. Linkey	X	Х		Х			Χ	Χ		Χ		Χ	Х	Χ		Х
Patricia Smallmon			Х		Χ						Χ				Х	
Write-In									Χ							
		Jud	ge of	the (Comr	nonw	ealth	Court	t							
Chris Carpenter	X			Χ			Χ		Χ		Χ	Χ		Χ	Χ	Χ
Eugene Ruff		Χ	Χ		Χ					Χ			Χ			
Write-In								Х								
		Judg	e of t	he C	ourt	of Cor	nmor	n Plea	ıs							
Mary L. Daniel	X				ourt (of Cor	nmor	n Plea			U	Χ	Х		X	Χ
Jack "Duke"		Judg X	e of t	he C	ourt	of Cor	nmor	n Plea	X	X	U	X	X		X	X
Jack "Duke" Brodisky	X	Х	Х			of Cor										
Jack "Duke" Brodisky Joanne Schollzert	X			Х	X	of Cor	X	Y Plea		X				X		
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones	X	Х	Х					X	X					X		
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In	X	Х	Х	Х	X	P	X									
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones	X	Х	X	X	X	PU	X	X	X							
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In	X	X	X	X	X X Chief	P	X X utive	X	X		Ü	X		X		X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers	X	Х	X	X	X	PU	X	X	X	U			X		X	
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal	X	X	X	X	X X Chief	PU	X X utive	X	X		Ü	X		X		X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo	X	X	X	X	X X Chief	PU	X X utive	X	X	U	Ü	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal	X	X	X X Con	X	X X Chief	P U Exec	X X utive	X	X	U	Ü	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in	XXX	X	X X X Coo	X X unty X	X X Chief X	PU	X X utive X	X	X	U	X	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel-	X	X	X X Con	X	X X Chief	P U Exec	X X utive	X	X	U	Ü	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln	XXX	X	X X X Coo	X X unty X	X X Chief X	P U Exec	X X utive X	X	X	X	X	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke	XXX	X	X X X Coo	X X unty X	X X Chief X	P U Exec	X X utive X	X	X	U	X	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln	XXX	X	X X X Coo	X X unty X	Chief X	P U Exec	x x utive x	X	X	X	X	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In	XXX	X	Con	X X unty X	Chief X	P U Exec	X X utive X	X	X	X	X	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In Franklin Margo	XX	X	X X X Coo	X X Lunty X County X	X X X Chief X X	P U Exec	x x utive x	X	X	X	X	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In Franklin Margo Donald Hensley	XXX	X	Con	X X unty X	Chief X	P U Exec	X X utive X	X	X	X	X	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In Franklin Margo	XX	X	Cool	x x unty X Count X	X X X Chief X X X X X X X X X X X X X X X X X X X	P U Exec	x X uutive X	X	X	X	X	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In Franklin Margo Donald Hensley Write-In	X X U X	X	Cool	X X unty X Distr	X X X Chief X X X X X X X X X X X X X X X X X X X	P U Exec	x X utive X	X	X	X	X	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In Franklin Margo Donald Hensley Write-In Gerald Danson	X X X	X	Cool X X X X X X X X X X X X X X X X X X	x x y x x x x x x x x x x x x x x x x x	Chief X X X X Chief X X Direct A	P U Exec	x x x utive x	X X X X X X X X X X X X X X X X X X X	X	X X X	X	X	X	X	X	X
Jack "Duke" Brodisky Joanne Schollzert Kerry Jones Write-In Write-In Norman Powers Micheal Santarcangelo Write-in Paul M Bertel- Lincoln Donna Berke Write-In Franklin Margo Donald Hensley Write-In Gerald Danson Shlomo Archibald	X X U X	X	Cool	X X unty X Coun X Distr	X X X Chief X X X X X X X X X X X X X X X X X X X	P U Exec	x X utive X	X X X X X X X X X X X X X X X X X X X	X	X	X	X	X X X	X	X	X
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William Malicki						Χ	Х	Х				Χ	Х		Х		Х	U	Х	
Arnold Wells					Х				Х					Х		Χ				Χ
Write-in											Χ									
							Sta	itewi	de R	eferer	ıdum									
Yes	Χ				Χ			Χ		U		Χ			Χ				U	Χ
No		Χ	Х	Х		Х	Χ		Χ		Χ		Χ	Χ		Х	X	Χ		
							Reter	ntion	of To	ony G	rzani	ch								
Yes	Х	Х	Х		Х	Χ		Х		Χ	Χ	Χ		Х	Х		Х		Х	Χ
No				Х			Х		Х				Х			Χ		Χ		
							Rete	ntion	of D	ebbie	Mark	(S								
Yes		Χ		Χ		Χ		Χ		Χ	Χ	Χ	Х						Χ	Χ
No	Х		Х		Х		Х		Х					Χ	Χ	Х	Х	Х		

Test Results:

Precinct 1: Straight Party

Republican 3
Democratic 3
Green 0
Libertarian 2
Undervote 12

President/Vice President of the United States

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

United States Senator

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

Representative in Congress District 5

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

Governor/Lieutenant GovernorJoe Carlton

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

Representative in the General Assembly District 83

 Harry Rider
 8

 R.J. Abbott
 7

 Derek Carlson
 2

 Write-In
 3

 Undervote
 0

7 7 80 1 0	
Judge of Superior Court	7
Robert L. Linkey Patricia Smallmon	7 11
Write-In	
	1
Undervote	1
Index of the Commence of the	Count
Judge of the Commonwealth	
Chris Carpenter Eugene Ruff	8
Write-In	9 3
Undervote	0
Olidervote	U .
Judge of the Court of Comm	Non Pleas
Mary L. Daniel	11
Jack "Duke" Brodisky	10
Joanne Scholzert	9
Kerry jones	7
Write-In	2
Undervote	1
Chactvote	•
County Chief Executive	
Norman Powers	8
Micheal Santarcangelo	9
Write-In	2
Undervote	1
County Controller	
Paul M. Bertel-Lincoln	8
Donna Berke	8
Write-In	2
Undervote	2
District Attorney	
Franklin Margo	9
Donald Hensley	8
Write-In	3
Undervote	0
School Director Region 6	
Gerald Danson	15
Shlomo Archibald	14
Write-In	7
Undervote	4
Commissioner Seat 1	
Stephen Harrick	13
George Fisk	6
Write-In	1
Undervote	0
Statewide D.F	
Statewide Referendum	6
Yes No	12
Undervote	2
Chaci vote	<u> </u>
Retention of Tony Grzanich	
Yes	11
No	8
Undervote	1
Retention of Debbie Marks	
Yes	11
No	7
Undervote	2
Precinct 2a:	
Straight Party	
Republican	4
Democratic	1
	

Green	0
Libertarian	2
Undervote	13
President/Vice President of th	a United States
	. Connect States
James Collins	
Arthur Remus	13
Calvin Marino	
Keith Satterwhite	4
John P. Defazio	
Louis Denn	0
	O Company of the Comp
June Perkins	
David Heroux	2
Write-In	1
Undervote	0
United States Senator	
	12
Colby Lincoln	
Oscar Draper	5
Eric Sheely	2
Write-In	ī
Undervote	0
Representative in Congress D	istrict 5
Ben Baker	13
Barbara Barrett-Hicks	5
Write-In	1
Undervote	1
Olidervote	1
Governor/Lieutenant Govern	or
Joe Carlton	
Arnold Krill	13
	13
Charles Jasen	
Kenneth Interlicchio	5
Robert Marsh	
Theodore Kopp	0
Write-In	1
Undervote	1
Damman dadima in the Communi	A
Representative in the General	
Harry Rider	11
R.J. Abbott	7
Derek Carlson	2
Write-In	0
Undervote	0
Judge of Superior Court	
	10
Robert L .Linkey	12
Patricia Smallmon	6
Write-In	1
Undervote	1
Officer vote	1
Judge of the Commonwealth	Court
Chris Carpenter	13
	5
Eugene Ruff	
Write-In	1
Undervote	1
Judge of the Court of Commo	an Pleas
Mary I Daniel	
Mary L. Daniel	13
Jack "Duke" Brodisky	9
Joanne Scholzert	7
	6
Kerry jones	
Write-In	4
Undervote	1
County Chief Executive	
	12
Norman Powers	13
Micheal Santarcangelo	5
Write-In	1

County Controller	Undervote	1
Paul M. Berel-Lincoln 1		
Donnal Breke	County Controller	
Write-In		
District Attorney		
Panalim Margo	Write-In	0
Frankin Margo	Undervote	2
Frankin Margo	District Attorney	
Donald Hensley 10 Write-In 1 Undervote 0 0	Franklin Margo	Q
Write-In		
Condervote Content		
Gerald Danson 17		
Gerald Danson 17		
Shlomo Archibald 15 Write-In 5 Undervote 3 Commissioner Seat 2 Steve West Steve West 1 Tett Rogiers 6 Write-In 1 Undervote 2 Statewide Referendum Yes 6 No 12 Undervote 2 Retention of Tony Grzanich Yes 15 No 1 Undervote 2 Retention of Debbie Marks Yes 15 No 4 Undervote 1 Precinct 2b: Straight Party 1 Precinct 2b: Straight Party 1 Undervote 1 Precinct 2b: Straight Party 1 Undervote 1 Precinct 2b: 1 Undervote 1 Precinct 2b: 1		-
Write-In		
Commissioner Seat 2		
Commissioner Seat 2		
Steve West	Undervote	3
Steve West	Commissioner Seat 2	
Tetty Rogiers 6		11
Wrife-In Undervote 1 Ves 6 No 12 Undervote 2 Retention of Tony Grzanich Yes Yes 15 No 3 Undervote 2 Retention of Debbie Marks Yes Yes 15 No 4 Undervote 1 Precinct 2b: Straight Party Expublican 1 Democratic 4 Green 3 Libertarian 1 Undervote 11 Undervote 11 Undervote 10 Undervote 11 Undervote 10 Undervote 11 Undervote 10 Undervote 11 Undervote 10 Undervote 11 Undervote 10 Undervote 10 Undervote 11 Undervote 10 Undervo		
Statewide Referendum		
Statewide Referendum		
Yes 6 No 12 Undervote 2 Retention of Tony Grzanich Yes Yes 15 No 3 Undervote 2 Retention of Debbie Marks Yes Yes 15 No 4 Undervote 1 Precinct 2b: Straight Party Republican I Democratic 4 Green 3 Libertarian I Undervote II Undervote II President/Vice President of the United States James Collins Arthur Remus Collins Arthur Remus I O Calvim Marino Keith Satterswhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux I Write-In O Undervote O U	Onder vote	-
No		
Undervote 2		
Retention of Tony Grzanich Yes 15 No 3 Undervote 2 Retention of Debbie Marks *** Yes 15 No 4 Undervote 1 Precinct 2b: *** Straight Party *** Republican 1 Democratic 4 Green 3 Libertarian 1 Undervote 11 President/Vice President of the United States James Collins *** Arthur Remus 10 Calvin Marino *** Keith Satterwhite 7 John P. Defazio *** Louis Den 2 June Perkins *** David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 <t< td=""><td>No</td><td>12</td></t<>	No	12
Yes 15 No 3 Undervote 2 Retention of Debbie Marks Yes 15 No 4 Undervote 1 Precinct 2b: Straight Party Republican I Democratic 4 Green 3 Libertarian I Undervote I1 President/Vice President of the United States James Collins Arthur Remus I Dona President of the United States James Collins Arthur Remus I Donn P. Defazio Louis Denn 2 June Perkins David Heroux I Write-In O Undervote O United States Senator Colby Lincoln O Uthervote O Usited States Senator Colby Lincoln I O Scar Draper 6 Eric Sheely I Write-In I I	Undervote	2
Yes 15 No 3 Undervote 2 Retention of Debbie Marks Yes 15 No 4 Undervote 1 Precinct 2b: Straight Party Republican I Democratic 4 Green 3 Libertarian I Undervote I1 President/Vice President of the United States James Collins Arthur Remus I Dona President of the United States James Collins Arthur Remus I Donn P. Defazio Louis Denn 2 June Perkins David Heroux I Write-In O Undervote O United States Senator Colby Lincoln O Uthervote O Usited States Senator Colby Lincoln I O Scar Draper 6 Eric Sheely I Write-In I I	Detention of Town Come	
No		i.e.
Undervote 2		
Retention of Debbie Marks Yes 15 No 4 Undervote 1 Precinct 2b: Straight Party Republican Republican 1 Democratic 4 Green 3 Libertarian 1 Undervote 11 President/Vice President of the United States James Collins Arthur Remus James Collins Arthur Remus Calvin Marino Keith Satterwhite Keith Satterwhite 7 John P. Defazio Louis Denn Louis Denn 2 June Perkins David Heroux David Heroux 1 Write-In 0 Undervote 0 United States Senator Colly Lincoln Colly Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		
Yes 15 No 4 Undervote 1 Precinct 2b: Straight Party Republican 1 1 Democratic 4 Green 3 Libertarian 1 Undervote 11 President/Vice President of the United States James Collins Arthur Remus Arthur Remus 10 Calvin Marino Keith Satterwhite Keith Satterwhite 7 John P. Defazio Louis Denn Louis Denn 2 June Perkins David Heroux David Heroux 1 Write-In 0 United States Senator Colby Lincoln Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1	Undervote	2
Yes 15 No 4 Undervote 1 Precinct 2b: Straight Party Republican Republican 1 Democratic 4 Green 3 Libertarian 1 Undervote 11 President/Vice President of the United States James Collins Arthur Remus Arthur Remus 10 Calvin Marino Keith Satterwhite Keith Satterwhite 7 John P. Defazio Louis Denn Louis Denn 2 June Perkins David Heroux David Heroux 1 Write-In 0 United States Senator Colby Lincoln Colly Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1	Retention of Debbie Marks	
No	Yes	15
Precinct 2b: Straight Party Republican 1 Democratic 4 Green 3 Libertarian 1 Undervote 11 President/Vice President of the United States James Collins Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1 Write-In 1 Oscar Draper 6 Eric Sheely 1 Write-In 1 Write-In 1 Write-In 1 Undervote 1 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		
Straight Party Republican 1 Democratic 4 Green 3 Libertarian 1 Undervote 11 President/Vice President of the United States James Collins Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1	Undervote	1
Straight Party Republican 1 Democratic 4 Green 3 Libertarian 1 Undervote 11 President/Vice President of the United States James Collins Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		
Republican 1 Democratic 4 Green 3 Libertarian 1 Undervote 11 President/Vice President of the United States James Collins Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1	Precinct 2b:	
Democratic 4 Green 3 Libertarian 1 Undervote 111 President/Vice President of the United States James Collins Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1	Straight Party	
Green 3 Libertarian 1 Undervote 11 President/Vice President of the United States James Collins Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		
Libertarian 1 Undervote 11 President/Vice President of the United States James Collins Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		
Undervote 11 President/Vice President of the United States James Collins Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		
President/Vice President of the United States James Collins Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		
James Collins Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1	Undervote	11
Arthur Remus 10 Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		he United States
Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1	James Collins	
Calvin Marino Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		10
Keith Satterwhite 7 John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		
John P. Defazio Louis Denn 2 June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		7
Louis Denn 2 June Perkins 1 David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		
June Perkins David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		2
David Heroux 1 Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		
Write-In 0 Undervote 0 United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		1
United States Senator Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		
Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1		
Colby Lincoln 11 Oscar Draper 6 Eric Sheely 1 Write-In 1	** ** ** **	
Oscar Draper 6 Eric Sheely 1 Write-In 1		
Eric Sheely 1 Write-In 1	Colby Lincoln	
Write-In 1	Oscar Draper	
Undervote 1		
	Undervote	1

Representative in Congress D	
Ben Baker	8
Barbara Barrett-Hicks	10
Write-In	1
Undervote	1
Governor/Lieutenant Govern	or
Joe Carlton	•
Arnold Krill	8
Charles Jasen	
Kenneth Interlicchio	8
Robert Marsh	
Theodore Kopp	3
Write-In	1
Undervote	0
Representative in the General	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	
Undervote	0
7.1 64 G 141	
Judge of the Commonwealth	
Chris Carpenter	9
Eugene Ruff	8
Write-In	2
Undervote	1
Judge of the Court of Commo	n Diese
Mary L. Daniel	9
Jack "Duke" Brodisky	7
Joanne Scholzert	9
Kerry jones	8
Write-In	4
Undervote	3
Onder vote	
County Chief Executive	
Norman Powers	10
Micheal Santarcangelo	8
Write-In	1
Undervote	1
County Controller	
Paul M. Bertel-Lincoln	11
Donna Berke	8
Write-In	0
Undervote	1
5	
District Attorney	
Franklin Margo	4
Donald Hensley	16
Write-In	
Undervote	0
School Divertor Design (
School Director Region 6 Gerald Danson	17
	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 Grzani	r.h	
Yes	14	
No	5	
Undervote	1	
Retention of Debbie Marl		
Yes	13	
No	6	
Undervote	1	
Precinct 3: Straight Party		
Republican	4	
Democratic	1	
Green	2	
Libertarian	2 2	
Undervote	11	
Chief voic	••	
President/Vice President	f the United States	
James Collins		
Arthur Remus	13	
Calvin Marino		
Keith Satterwhite	3	
John P. Defazio		
Louis Denn	2	
June Perkins		
David Heroux	2	
Write-In	0	
Undervote	0	
United States Senator		
Colby Lincoln	13	
Oscar Draper	5	
Eric Sheely	2	
Write-In	0	
Undervote	0	
Representative in Congre	ss District 10	
Lois Koss	14	
William Sullivan	4	
Write-In	1	
Undervote	i	
Governor/Lieutenant Gov		
Joe Carlton	EI IIVI	
Arnold Krill	11	
Charles Jasen	11	
Kenneth Interlicchio	5	
Robert Marsh		
Theodore Kopp	2	
Write-In	2	
Undervote	0	
Representative in the Ger	eral Assembly District 84	
Peter Valle	12	
Neil Carey	6	
Write-In	1	
Undervote	i	
Indee of Committee Co. 1		
Judge of Superior Court Robert L. Linkey	14	
ROSCIE L. LIIRCY	**	

Note	Patricia Smallmon	5
Undervote		
Judge of the Commonwealth Court Chris Carpenter 13 Eugene Ruff 6 Write-In		
Chris Carpenter 13	Undervote	0
Chris Carpenter 13		
Chris Carpenter 13	Judge of the Commonwealth C	Court
Eugen Ruff	Chris Carpenter	
Write-In	Eugene Buff	
Undervote		
Judge of the Court of Common Pleas Mary L. Daniel 9 1 1 1 1 1 1 1 1 1		
Mary L. Daniel	Undervote	0
Mary L. Daniel		
Mary L. Daniel	Judge of the Court of Common	n Pleas
Jack "Duke" Brodisky 14 14 14 14 15 15 15 15	Mary I Daniel	
Joanne Scholzert 6		
Kerry jones		
Write-In	Joanne Scholzert	6
Write-In	Kerry jones	4
Undervote		
Norman Powers 13 13 13 13 14 14 14 14		
Norman Powers	Olidervote	*
Norman Powers		
Micheal Santarcangelo 7		
Micheal Santarcangelo 7 Write-In		13
Write-In 0 Undervote 0 County Controller Paul M. Bertel-Lincoln 12 Donna Berke 5 Write-In 1 Undervote 2 District Attorney Franklin Margo 9 Donald Hensley 9 Write-In 1 Undervote 1 School Director Region 6 Gerald Danson 17 Shlomo Archibald 18 Write-In 2 Undervote 3 Commissioner Seat 3 William Malicki 12 Arnold Wells 6 6 Write-In 1 Undervote 1 Statewide Referendum Yes 6 No 12 Undervote 2 Retention of Tony Grzanich Yes 14 No 6		
Undervote	Write-In	
County Controller		
Paul M. Bertel-Lincoln 12	Onuel vote	v
Paul M. Bertel-Lincoln 12		
Paul M. Bertel-Lincoln 12	County Controller	
Donna Berke 5 Write-In		12
Write-In 1 Undervote 2 District Attorney Franklin Margo 9 Donald Hensley 9 Write-In 1 Undervote 1 School Director Region 6 Gerald Danson 17 Shlomo Archibald 18 Write-In 2 Undervote 3 Commissioner Seat 3 William Malicki 12 Arnold Wells 6 Write-In 1 Undervote 1 Statewide Referendum Yes 6 No 12 Undervote 2 Retention of Tony Grzanich Yes 14 No 6		
Undervote 2		
District Attorney Franklin Margo 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		
Franklin Margo	Undervote	2
Franklin Margo		
Donald Hensley 9 Write-In	District Attorney	
Donald Hensley 9 Write-In	Franklin Margo	9
Write-In 1 Undervote 1 School Director Region 6 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	Donald Hensley	
Undervote		
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		
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	1
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		
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	School Director Region 6	
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		17
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 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		
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	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		
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	Commissioner Seat 3	
Arnold Wells 6 Write-In 1 Undervote 1 Statewide Referendum Yes 6 No 12 Undervote 2 Retention of Tony Grzanich Yes 14 No 6		12
Write-In 1 Undervote 1 Statewide Referendum Yes 6 No 12 Undervote 2 Retention of Tony Grzanich 4 Yes 14 No 6		
Undervote		
Statewide Referendum Yes 6 No 12 Undervote 2 Retention of Tony Grzanich Yes 14 No 6	Write-In	1
Statewide Referendum Yes 6 No 12 Undervote 2 Retention of Tony Grzanich Yes 14 No 6	Undervote	1
Yes 6 No 12 Undervote 2 Retention of Tony Grzanich 14 Yes 14 No 6		
Yes 6 No 12 Undervote 2 Retention of Tony Grzanich 14 Yes 14 No 6	Statewide Referendum	
No 12 Undervote 2 Retention of Tony Grzanich Yes 14 No 6		6
Undervote 2 Retention of Tony Grzanich Yes 14 No 6		
Retention of Tony Grzanich Yes 14 No 6		
Yes 14 No 6	Undervote	2
Yes 14 No 6		
Yes 14 No 6	Retention of Tony Grzanich	
No 6		14
Undervote U		
1	Undervote	U
Retention of Debbie Marks	Retention of Debbie Marks	
Yes 10		10
No 10		
10 III	Undervote	
Undervote 0	Undervote	v
Cumulative Totals:	Cumulativa Tatala	
Cumulative Totals;	Cumulative Totals:	
Straight Party	Straight Party	
Republican 12	Republican	12
Democratic 9		
Green 5	Green	٥

Libertarian	7
Undervote	47
President/Vice President of	he United States
James Collins	ne Omica States
Arthur Remus	44
Calvin Marino	77
Keith Satterwhite	22
John P. Defazio	22
	4
Louis Denn	4
June Perkins	_
David Heroux	7
Write-In	2
Undervote	1
** ** * ** *	
United States Senator	
Colby Lincoln	42
Oscar Draper	27
Eric Sheely	6
Write-In	4
Undervote	1
Representative in Congress	District 5
Ben Baker	31
Barbara Barrett-Hicks	22
Write-In	4
Undervote	3
D	21 / 1 / 10
Representative in Congress	
Lois Koss	14
William Sullivan	4
Write-In	1
Undervote	1
Governor/Lieutenant Gover	nor
Joe Carlton	
Arnold Krill	44

Charles Jasen	25
Kenneth Interlicchio	25
Robert Marsh	
Theodore Kopp	5
Write-In	5
Undervote	1
Representative in the Gener	al Assembly District 83
Harry Rider	19
R.J. Abbott	14
Derek Carlson	4
Write-In	3
Undervote	0
Onder vote	V
Representative in the Gener	al Accombly Dictrict 84
Peter Valle	
	22
Neil Carey	15
Write-In	2
Undervote	1
Judge of Superior Court	
Robert L. Linkey	44
Patricia Smallmon	30
Write-In	4
Undervote	2
2.1.201 1010	-
Judge of the Commonwealth	Count
Chris Companie	
Chris Carpenter	43
Chris Carpenter Eugene Ruff	43 28
Chris Carpenter Eugene Ruff Write-In	43 28 7
Chris Carpenter Eugene Ruff	43 28
Chris Carpenter Eugene Ruff Write-In	43 28 7 2

Mary L.D aniel	42
Jack "Duke" Brodisky	40
Joanne Scholzert	31
Kerry jones	25
Write-In	13
Undervote	9
Clidervote	,
County Chief Executive	
Norman Powers	44
	29
Micheal Santarcangelo	
Write-In	4
Undervote	3
County Controller	
Paul M. Bertel-Lincoln	42
Donna Berke	28
Write-In	3
Undervote	7
District Attorney	
Franklin Margo	31
Donald Hensley	43
Write-In	5
Undervote	1
Olidel vote	
School Director Region 6	
Gerald Danson	66
Shlomo Archibald	65
Write-In	16
Undervote	13
Commissioner Seat 1	
Stephen Harrick	13
George Fisk	6
Write-In	1
Undervote	0
Commissioner Seat 2	
Steve West	24
Tetty Rogiers	12
Write-In	2
Undervote	2
Onder vote	2
Commissioner Seat 3	
William Malicki	12
Arnold Wells	6
Write-In	1
Undervote	1
g	
Statewide Referendum	
Yes	27
No	47
Undervote	6
Retention of Tony Grzanich	
Yes	54
No	22
Undervote	4
Retention of Debbie Marks	
Yes	49
No	27
Undervote	4

ATTACHMENT B TEST CASES

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			rovides facilities for voting for such candidates as may be nominated	
Requirement:			upon such questions as may be submitted.	
Test Objective: To determine if a voter hat the ability to select candidates and questions.			Test Configuration: Central Scan 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	:		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.			
	Expected: 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).			
	Expected: The ballot indicate straight party contest. Actual:	s a vote	selection for the first candidate in the first partisan contest excluding a	
1020			the first "N" candidates in the contest. (e.g. in a Vote for Two contest the d) by appropriately marking the ballot.	
	Expected: The ballot indicate Actual:	s a vote	for the first "N" candidates in the first "N of M" contest.	
1030	On the first "Question" conte	st, selec	et the "Yes" option in the contest by appropriately marking the ballot.	
	Expected: The ballot indicate Actual:	s a vote	selection for the "Yes" option in the first "Question" contest.	
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.
	Expected: 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:
Criteria for as input by th	Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported e tester.

Test Case Id	entifier: 03 – 25 P.S. § 303	1.7(3)	Straight Party and Pennsylvania Method
PA ST 25 P.S. § 3031.7			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
•			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
		every	office to be voted for, and every such mark or act shall be
		equiv	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
			idually so selected, notwithstanding the fact that the voter may not
			individually voted for the full number of candidates for that office which 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		d the	procedures and/or the device manufacturer.
Test Equipm		None	1.*
	edural Requirements:	None	
Assumptions		An e	election is loaded on the device and the polls are open, ready for
· ·		accep	oting ballots.
Step			Description
1000	Obtain a blank ballot.		
	Obtain a blank banot.		
	Expected: The ballot is blank	and vo	te selections can be made.
	Emperior. The builders blank and vote selections can be made.		
	Actual:		
1010	X		
			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).	ven cm	teria for a mark (for example, the ovar must be completely filled in with an
	appropriate marking utensir).		
	Expected: The ballot indicate	s a vote	selection for the first party selection in the straight party contest.
	Actual:		
	лиши.		
1020			
_0_0	Review the ballot to verify th	at the a	bove selection is marked.
	·		
	Expected: The correct selection is marked appropriately		
	Actual:		
1030	Cast the ballot on the Central Scan tabulation device.		
	Expected: The ballot is cast s	uccessf	ully.

	Actual:
1040	Obtain a blank ballot.
	Expected: 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).
	Expected: The ballot indicates a vote selection for the second party selection in the straight party contest. Actual:
1060	Review the ballot to verify that the above selection is marked.
	Expected: 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.
	Expected: 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	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.		
	Expected: The polls closed and a report is printed.		
	Actual:		
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.		
	Expected: The closed polls report presents the accumulated totals for the selections input above.		
	Actual:		

Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The 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 Identifier: 04 – 25 P.S. § 3031.7(4) Straight Party and Write-In					
PA ST 25 P.S. § 3031.7 Requirements:			rmits each voter, at other than primary elections, to vote a ticket		
and the second s		selected from the nominees of any and all political parties, from the			
			ees of any and all political bodies, and from any persons whose		
			are not in nomination and do not appear upon the official ballot.		
Test Objec	tive: To determine if the voting		Test Configuration: Central Scan tabulation device		
	ports straight party voting and w	rite-	configured as described for normal election day operation by		
in.	8 1 1 3 8 1 1 1		Pennsylvania procedures and/or the device manufacturer.		
Test Equip	ment:	None			
	ocedural Requirements:	None			
Assumption			ction is loaded on the device and the polls are open, ready for		
			scanning.		
Step			Description		
1000			-		
	Obtain a blank ballot.				
	Expected: The ballot is blank and	the vote	selections can be made.		
	Actual:				
1010					
1010	Vote for the option for the first pa	rtv selec	tion of the straight party. The ballot must be marked in such a way as to		
		-	a mark (for example, the oval must be completely filled in with an		
	appropriate marking utensil).	terra ror	a mark (for example, the ovar must be completely fined in with an		
	appropriate marking atensity.				
	Expected: The ballot indicates a v	ote selec	tion for the first party selection in the straight party contest.		
	Expected. The bandt indicates a v	ote serce	tion for the first party selection in the straight party contest.		
	Actual:				
	Hemm.				
1020					
1020	Review the ballot to verify that th	e ahove s	selection is marked		
	Review the banot to verify that th	c above s	Selection is marked.		
	Expected: The correct selection is	marked	appropriately		
	Expected: The correct selection is	s markeu	арргорганогу		
	Actual:				
	110111111.				
1030					
1030	Cast the ballot on the Central Sca	n tabulati	ion device		
	Cast the banot on the Central Scal	ı tavulatl	ion acrice.		
	Expected: The ballot is cast succe	ssfully.			
	Actual:				
1040					
	Obtain a blank ballot.				
	Expected: The ballot is blank and	the vote	selections can be made.		
	_				
	<u> </u>				

	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.
	Expected: 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).
	Expected: Both the "Yes" and "No" options are marked.
	Actual:

1110	Cast the ballot on the Central scan tabulation device.		
	Expected: The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication.		
	Actual:		
1120	Close the polls and print the closed polls report tape.		
	Expected: The polls closed and a report is printed.		
	Actual:		
1130	Review the closed polls report to ensure all selections input above are recorded and reported correctly.		
	Expected: The closed polls report presents the accumulated totals for the selections input above.		
	Actual:		
	Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The functionality of selecting a write-in candidate functions with a straight party		

selection.

Test Case Id	lentifier: 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			
		and for which he is lawfully entitled to vote, whether or not the name of such person appears upon the ballot as a candidate for nomination				
		or elec	ction.			
•	ive: To determine if the voting s	•	Test Configuration: Central Scan tabulation device			
candidate.	selection of a candidate and a w	rite-in	configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.			
Test Equipn	nent:	None	Temisyivama procedures and of the device manufacturer.			
Special Proc	cedural Requirements:	None				
Assumptions:		An election is loaded on the device and the polls are open, ready for				
Step		Danot	Scanning. Description			
1000 Obtain a blank ballot.						
	Expected: The ballot is blank and	vote sele	ctions can be made.			
	Actual:					
1010	Vote for the option for the first candidate in the first partisan 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).					
	Expected: The ballot indicates a vote selection for the first candidate selection in the first partisan contest.					
	Actual:					
1020	Review the ballot to verify that the above selection is marked. Cast the ballot on the Central Scan tabulation device.					
	Expected: The correct selection is marked appropriately. The ballot is cast successfully					
	Actual:					
1030	Obtain a blank ballot.					
	Expected: The ballot is blank and vote selections can be made.					
	Actual:					
1040	Mark the option for a write-in cano	didate in	the first partisan contest. Use the designed method to input "John			
	Expected: A mark is made to indicate a vote selection for a write-in candidate with the name of "John Doe".					
	Actual:					

Review the ballot, observing only the write-in candidate in the first partisan contest is marked. Use the designate method to cast the voted ballot. Expected: The ballot indicates the selection for only the write-in candidate "John Doe" in first partisan contests. After review the ballot is cast successfully. Actual: Obtain a blank ballot. Expected: The ballot is blank and vote selections can be made.
After review the ballot is cast successfully. Actual: Obtain a blank ballot. Expected: The ballot is blank and vote selections can be made.
Obtain a blank ballot. Expected: The ballot is blank and vote selections can be made.
Expected: The ballot is blank and vote selections can be made.
Actual:
асиш.
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:
Cast the ballot on the Central Scan tabulation device.
Expected: The ballot is cast successfully.
Actual:
Close the polls and print the closed polls report tape.
Expected: The polls closed and a report is printed.
Actual:
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:

Test Case Ide	entifier: 07– 25 P.S. § 3031	7(7) Attempt to Over Vote Contests and Questions		
PA ST 25 P.S	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		
The cold of the cold		he is entitled to vote for or upon any question more than once.		
	ve: To determine if the v			
	s over voting on contests	• • • • • • • • • • • • • • • • • • • •		
questions		procedures and/or the device manufacturer.		
Equipment: Special Procedural Requirements:		None None		
Assumptions		An election is loaded on the device and the polls are open, ready for ballot		
rissumptions	•	scanning.		
Step		Description		
1000		•		
	Obtain a blank ballot.			
	Expected: The ballot is blank	and vote selections can be made.		
	A			
	Actual:			
1010				
1010	Vote for the first andidate in	the first partison "1 of 1" contact evaluding a straight party contact. The hallet		
		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		
	-	n appropriate marking utensil).		
	be completely lined in with a	in appropriate marking atensity.		
	Expected: 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.			
	Expected: The ballot indicate	tes a vote selection for the second candidate in the first partisan "1 of 1" contest		
	excluding a straight party contest.			
	6			
	Actual:			
1030				
	Attempt to cast the ballot on t	he Central Scan tabulation device.		
	Expected: 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			
	Actual:			
1040				
1040	Obtain a blank ballot.			
	Expected: The ballot is blank and vote selections can be made.			
	Expected: 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.						
	Expected: 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".						
	Expected: The ballot indicates a vote selection for the write-in.						
10=0	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.						
	Expected: The ballot is blank and vote selections can be made. Actual:						
	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.						
	Expected: The ballot indicates a vote for the "N+1" candidate.						
	Actual:						
1110							

	Attempt to cast the ballot on the Central Scan tabulation device.	
	Expected: 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.	
	Expected: The ballot is blank and vote selections can be made.	
	Actual:	
1120		
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.	
	Expected: The ballot indicates a vote for the "No" option in the first "Question" contest.	
	Actual:	
1150		
	Attempt to cast the ballot on the Central Scan tabulation device.	
	Expected: 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		
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.	
	Expected: 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 Identifier: 17 – 25 P.S. § 3031.7(17) Public Counter, No Reopening of Polls, Media Security with					
Tamper Proof Locks a			Zero Proof and Tally Reports.		
PA ST 25 P.S. § 3031.7			(17) If the voting system is of a type which provides for the computation		
Requirements:		and t	and tabulation of all votes at a central counting center or if it provides for		
		the to	abulation of district totals at such a central counting center, the		
			central automatic tabulating equipment shall include the following		
			mechanisms or capabilities:		
			t shall be constructed so that every person is precluded from		
			ering with the tabulating element during the course of its operation.		
			(ii) If 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		
			choices recorded on the ballot for that office or question.		
			t 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		
		appe	aring on the ballot. It may also be capable of generating cumulative		
			ion reports.		
•	ve: To determine if the voti	_	Test Configuration: Optical Scan Precinct tabulation device		
	public counter, does not allo		configured as described for normal election day operation by		
	g of the polls, and supplies a	zero	Pennsylvania procedures and/or the device manufacturer. This		
proof and tall Test Equipn		None	includes all security locks and seals.		
	edural Requirements:	None			
Assumptions	_		election media is installed but the polls have not been opened.		
Step			Description		
1000			•		
	Ensure media is loaded but the polls have not been opened. Use the designated method to open polls. If a				
	response is needed to print "Zero Proof" report, select this option.				
	Expected: The optical scan precinct tabulation device opens the polls and prints a "Zero Proof" report.				
	Actual:				
1010					
	Obtain a blank ballot.				
	Expected: The ballot is blank	and vo	te selections can be made.		
Expected: The ballot is blank and vote selections can be made.					
	Actual:				
1020					
1020	On the straight party contest.	mark th	ne first selection in the straight party contest.		
	on the straight party contest, mark the first selection in the straight party contest.				
	Expected: The ballot indicates a vote selection for the first selection in the straight party contest.				
	Actual				
	Actual:				
1030					
Proceed to the optical scan prec			abulation 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.
	Expected: 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.
	Expected: The polls closed and a report is printed.
	Actual:
1060	Use the designated method to attempt to reopen the polls.
	Expected: The polls cannot be reopened.
	Actual:
1070	Place lock on the optical scan precinct tabulation device per Pennsylvania Procedures to ensure all operation of the tabulation element is prevented.
	Expected: 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:
Cuitania fan	Evaluation of the Test Results: The intended selections input above are recorded stored, and

Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The 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 ½" 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 $\sum_{1}^{n} x$ (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 to 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.

TEST CASE

Election Management System (EMS)

Test Case Identifier: Evaluation of Election Management System (EMS)

PA ST 25 P.S. § 3031.7 Requirements:

- (2) Provides facilities for voting for such candidates as may be nominated and upon such questions as may be submitted.
- (3) Permits each voter, at other than primary elections, to vote a straight political party ticket by one mark or act and, by one mark or act, to vote for all the candidates of one political party for presidential electors and, by one mark or act, to vote for all the candidates of one political party for every office to be voted for, and every such mark or act shall be equivalent to and shall be counted as a vote for every candidate of the political party so marked including its candidates for presidential electors, except with respect to those offices as to which the voter has registered a vote for individual candidates of the same or another political party or political body, in which case the automatic tabulating equipment shall credit the vote for that office only for the candidate individually so selected, notwithstanding the fact that the voter may not have individually voted for the full number of candidates for that office for which he was entitled to vote.
- (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.
- (5) Permits each voter to vote for any person and any office for whom and for which he is lawfully entitled to vote, whether or not the name of such person appears upon the ballot as a candidate for nomination or election.
- (6) Permits each voter to vote for as many persons for any office as he is entitled to vote for and to vote for or against any question upon which he is entitled to vote and precludes each voter from voting or from having his vote tabulated for any candidate, or upon any question, for whom or upon which he is not entitled to vote.
- (9) Permits each voter at a primary election to vote only for the candidates seeking nomination by a political party in which such voter is registered and enrolled, and for any candidate for nonpartisan nomination, and for any question upon which he is entitled to vote.
- (11) Is suitably designed for the purpose used, is constructed in a neat and workmanlike manner of durable material of good quality, is safely and efficiently useable in the conduct of elections and, with respect to the counting of ballots cast at each district, is suitably designed and equipped to be capable of absolute accuracy, which accuracy shall be demonstrated to the Secretary of the Commonwealth.
- (12) Provides acceptable ballot security procedures and impoundment of ballots to prevent tampering with or substitution of any ballots or ballot cards (13) When properly operated, records correctly and computes and tabulates accurately every valid vote registered.

Test Objective:

This test will focus on the ability of the election management system to support the requirements of PA ST 25 P.S. § 3031.7. The election functions being evaluated are: ballot layout and design; voting variation support; hardware programming; and accumulation and reporting of voted data.

Test Configuration:

The election management system will be configured as for pre-election ballot design and layout.

Test Method:

The method for testing these requirements is execution and inspection. The election management system will create elections containing specific voting variations, contests, and candidates required by PA ST 25 P.S. § 3031.7. In addition, an inspection will be performed on the product labeling of the election management system PC or laptop and the "hardening" of the OS and access controls to the PC or laptop.

Functional Testing:

The following election definition for a general election will be either input or observed by the examiner to ensure the

election management system can support the Pennsylvania requirements:

Election Definition: Election Management General Election

General Election Description:

A general election containing a straight party contest, one partisan contest with write-in, one N of M contest, and one referendum contest in 1 precinct that contains two ballot styles. The voting variations are as follows:

- Partisan contest
- Non-Partisan contest
- N of M contest
- Referendum contest
- Straight Party voting
- Write-In voting

This general election is designed to functionally test the handling of multiple ballot styles and audio support. This election will only be input for the English language.

Configuration:

EMS computer, loaded with the software submitted for certification for use in Pennsylvania, to create the following configuration:

Name: EMS General Election

Voting Devices: All devices supported by the EMS

Precincts: Fire House Precinct **Parties:** Democratic, Republican

Languages: English

Contests: 5

Contests as follows:

Fire House Precinct
Straight Party

Republican

Democratic

United States Senator

Vote for One

Colby Lincoln

Republican

Oscar Draper

Democratic

Write-In

Judge of the Court of Common Pleas

Vote for Not More Than Two

Mary L. Daniel

Republican

Jack "Duke" Brodisky Republican				
Joanne Schollzert Democratic				
Kerry Jones Democratic				
Write-In				
Write-In				
County Commissioner Vote for One				
George Fisk				
Steve West				
Write-In				
Statewide Referendum				
Do you favor raising state sales tax to fund a new highway?				
Yes				
No				

The following election definition for a primary election will be either input or observed by the examiner to ensure the election management system can support the Pennsylvania requirements:

Election Definition: Election Management Primary Election

Primary Election Description:

A primary election containing a contest with write-in, and one referendum contest in 1 precinct that contains two ballot styles. The voting variations are as follows:

- Partisan contest
- Referendum contest
- Write-In voting

This primary election was designed to functionally test the handling of multiple ballot styles and audio support. This election will only be input for the English language.

Configuration:

EMS computer loaded with the software submitted for certification for use in Pennsylvania to create the following configuration:

Name: EMS Primary Election

Voting Devices: All devices supported by the EMS

Precincts: Church Precinct **Parties:** Democratic, Republican

Languages: English

Contests: 2

Contests as follows:

Church Precinct (REP) United States Senator
Officed States Seriator
Bob Ford
Allegheny County
Colby Lincoln
Delaware County
Write-In

Statewide Referendum Bond Issue

Shall section two of chapter one hundred eighteen of the laws of nineteen hundred seventy-four authoring state debt be approved?

Yes

No

Product Labeling:

Test steps for inspecting the election management systems for product labeling. The method for testing this requirement will be inspection. For COTS equipment, the examiner will examine the device for product labeling. This labeling is usually around the area of the power supply, the rear of the device, or on the bottom of the device. The examiner will inspect for the following product labels.

Conformité Européenne	Underwriters Laboratories	Canadian Standards	Geprüfte Sicherhei
"European Conformity"		Association	"Tested Safety"
CE		€ ®	geprüfte Sicherheit

If the device contains any of these product labels the conformance claim should be accepted.

If the device does not contain any of these product labels, but does have product labeling the examiner will photographically document the labeling and research whether the conformance claim is self-declared or independently tested and to what standard.

If the conformance claim is independently tested to an industry accepted standard, the conformance claim should be accepted.

If the conformance claim is self-declared or not independently tested to an industry accepted standard, voting systems manufacturer will be asked to provide the data upon which the device manufacturer based their claim to the examiner for further review.

Physical and Access Controls:

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

- check all seals and/or locks and attempt to open the system
- · exercise verification of password security management

Criteria for Evaluation of the Test Results:	
The election management system supports all requirements set forth in PA ST 25 P.S. § 3031.7	
Comments:	
Examiner Approval: Date:	

TEST CASES

DS200 Scanner

Test Case Id	entifier: 01 – 25 P.S. § 303	.7(1) V	oter Secrecy
PA ST 25 P.S. § 3031.7 Requirement:		(1) Provides for voting in absolute secrecy and prevents any person from seeing or knowing for whom any voter, except one who has received or is receiving assistance as prescribed by law, has voted or is voting.	
Test Object	ive: To determine if a v	oters	Test Configuration: Precinct tabulation device configured as
	n be observed during the a		described for normal election day operation by Pennsylvania
	ce a vote has been cast.		procedures and or the device manufacturer.
Test Equipm		None	at that double of 5 are conticular countries and hallots containing continue
Special Proc	edural Requirements:		ot test deck of 5 sequentially numbered ballots containing unique pattern.
Assumptions	:		ection is loaded on the device and the polls are open, ready for
Step			Description
1000			
	Actual:		
1010	Close the polls and print the closed polls results report. Expected: The polls close and a results report is printed. Actual:		
1020	Retrieve the ballot test deck. Examine each ballot to ensure the sequence in which the ballots were cast cannot be determined. (Ignore any marks placed to identify the sequence). Expected: The ballot test deck can be retrieved and the ballots have no identifying marks that would connect a		
	ballot with a voter. Actual:		
1030	Retrieve the Cast Vote Record (CVR) report from the optical scan precinct tabulation device. Compare each vote cast record to the sequential ballot test deck.		
	Expected: 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 Res	ılts: No	o determination can be made of a voter to a specific ballot.

Test Case Id	lentifier: 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	
Requirement: and upon such questions as may be submitted.			
•	ive: To determine if a vote select candidates and questi		
Test Equipn		None	
	edural Requirements:	None	
Assumption	s:	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.		
	Expected: The ballot is blank	and vote selections can be made.	
	Actual:		
1010	W. 6 d 6		
	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).		
	Expected: The ballot indicates a vote selection for the first candidate in the first partisan contest excluding a straight party contest.		
	Actual:		
1020		t, select the first "N" candidates in the contest. (e.g. in a Vote for Two contest the e selected) by appropriately marking the ballot.	
	Expected: The ballot indicates a vote for the first "N" candidates in the first "N of M" contest.		
	Actual:		
1030	On the first "Question" conte	est, select the "Yes" option in the contest by appropriately marking the ballot.	
	Expected: The ballot indicates a vote selection for the "Yes" option in the first "Question" contest.		
	Actual:		
1040	On the second "Question" co	ntest, select the "No" option in the contest by appropriately marking the ballot.	

	Expected: The ballot indicates 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.		
	Expected: The correct selections are marked appropriately.		
	Actual:		
1060	Cast the ballot on the Optical Scan precinct 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:		
Criteria for as input by the	Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported te tester.		

Test Case Id	entifier: 03 – 25 P.S. § 303		
Test Case Identifier: 03 – 25 P.S. § 3031.7(3) Straight Party and Pennsylvania Method- PA ST 25 P.S. § 3031.7 Requirements: (3) Permits each voter, at other than primary elections, to vote a straight political party ticket by one mark or act and, by one mark or act, to vote for all the candidates of one political party for presidential electors and by one mark or act, to vote for all the candidates of one political party for every office to be voted for, and every such mark or act shall be equivalent to and shall be counted as a vote for every candidate of the political party so marked including its candidates for presidential electors, except with respect to those offices as to which the voter had registered a vote for individual candidates of the same or anothe political party or political body, in which case the automatic tabulating equipment shall credit the vote for that office only for the candidate individually so selected, notwithstanding the fact that the voter may not have individually voted for the full number of candidates for that office for which he was entitled to vote.			
	ive: To determine if the v		
	orts straight party voting an		
Pennsylvania		Pennsylvania procedures and/or the device manufacturer.	
Test Equipn		None	
Special Proc	edural Requirements:	None	
Assumptions	S:	An election is loaded on the device and the polls are open, ready for	
		accepting ballots.	
Step		Description	
1010	Vote for the option for the fir to meet the manufacturer's gi appropriate marking utensil).	and vote selections can be made. st party selection of the straight party. The ballot must be marked in such a way as wen criteria for a mark (for example, the oval must be completely filled in with an sa vote selection for the first party selection in the straight party contest.	
1020	Review the ballot to verify the Expected: The correct selection Actual:	at the above selection is marked. on is marked appropriately	
1030	Cast the ballot on the Optical	Scan precinct tabulation device.	

	Expected: The ballot is cast successfully. Actual:					
1040						
	Obtain a blank ballot.					
	Expected: The ballot is blank and vote selections can be made.					
	Actual:					
1050						
1030	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).					
	Expected: The ballot indicates a vote selection for the second party selection in the straight party contest.					
	Actual:					
1060						
	Review the ballot to verify that the above selection is marked.					
	Expected: The correct selection is marked appropriately.					
	Actual:					
1070						
10.0	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.					
	Expected: The selected candidate should be the only selection marked.					
	Actual:					
1000						
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.					

	Expected: 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.
	Expected: The selected candidate should be the only selection marked. Actual:
1120	Review the ballot to verify that the above selections are marked.
	Expected: The correct selections are marked appropriately
	Actual:
1130	Cast the ballot on the Optical Scan precinct tabulation device.
	Expected: The ballot is cast successfully. Actual:
1140	Close the polls and print the closed polls report tape.
	Expected: The polls closed and a report is printed. 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 reported as input 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 Id	entifier: 04 – 25 P.S. § 303	11.7(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		
		names are not in nomination and do not appear upon the official ballot.		
	ve: To determine if the voti			
	rts straight party voting and			
write-in. Pennsylvania procedures and/or the device manufacturer.				
Test Equipment: None				
	edural Requirements:	None		
Assumptions	S:	An election is loaded on the device and the polls are open, ready for voting.		
Step		Description Description		
1000		2001.194.01		
	Obtain a blank ballot.			
	Expected: The ballot is blank	and the vote selections can be made.		
	Actual:			
1010				
	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:			
1020				
1020	Review the ballot to verify that the above selection is marked.			
	Expected: The correct selection is marked 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.			
	Expected: 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).
	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 Optical Scan precinct tabulation device.
	Expected: The ballot is cast successfully. Actual:
1080	Obtain a blank ballot.
	Expected: 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 a 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). Expected: Both the "Yes" and "No" options are marked. Actual:
1110	

	Expected: The precinct tabulation device displays or provides an indication of an attempt to over vote. The precinct tabulation device might disallow the selection and not display any communication.		
	Actual:		
1120	Close the polls and print the closed polls report tape.		
	Expected: The polls closed and a report is printed.		
	Actual:		
1130	Review the closed polls report to ensure all selections input above are recorded and reported correctly.		
	Expected: The closed polls report presents the accumulated totals for the selections input above.		
	Actual:		
C '4 ' C	. T		

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

Test Case Id	lentifier: 05 – 25 P.S. § 303	31.7(5)	Selection of Candidate and Write-in		
PA ST 25 P.S. § 3031.7			(5) Permits each voter to vote for any person and any office for whom and		
Requirements:		for w	which he is lawfully entitled to vote, whether or not the name of such		
			on appears upon the ballot as a candidate for nomination or election.		
Test Objective: To determine if the voti			Test Configuration: Precinct tabulation device configured as		
system supports the selection of a candid		late	described for normal election day operation by Pennsylvania		
and a write-in		1	procedures and/or the device manufacturer.		
Test Equipm		None			
	edural Requirements:	None			
Assumptions	S:	An e	lection is loaded on the device and the polls are open, ready for		
Step			Description		
1000					
	Obtain a blank ballot.				
	Expected: The ballot is blank	and vo	te selections can be made.		
	4 . 7				
	Actual:				
1010					
	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 g	iven cri	teria for a mark (for example, the oval must be completely filled in with an		
	appropriate marking utensil).				
	Expected: The ballot indicate	es a vote	e selection for the first candidate selection in the first partisan contest.		
	Actual:				
	Actual:				
1020					
	Review the ballot to verify that the above selection is marked. Cast the ballot on the Optical Scan precinct				
	tabulation device.				
	Expected: The correct selection is marked appropriately. The ballot is cast successfully				
	Actual:				
1030					
	Obtain a blank ballot.				
	Expected: The ballot is blank	and vo	ate selections can be made		
	Expecieu. The valiot is blank	and vo	ne selections can be made.		
	Actual:				
1040					
	-	n candi	date in the first partisan contest. Use the designed method to input "John		
	Doe".				
	7				
	Expected: A mark is made to indicate a vote 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 partisan 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.		
	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 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. § 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.
Test Object	ive: To determine if the v	
device allow	s over voting on contests	s and described for normal election day operation by Pennsylvania
questions		procedures and/or the device manufacturer.
Equipment:		None
Special Proc	edural Requirements:	None
Assumptions	s:	An election is loaded on the device and the polls are open, ready for
		voting.
Step		Description
1000	Obtain a blank ballot.	
	Expected: The ballot is blank	and vote selections can be made.
	Actual:	
1010	Vote for the first candidate in the first partisan "1 of 1" contest excluding a straight party contest. The ballot	
	must be marked in such a way	y as to meet the manufacturer's given criteria for a mark (for example, the oval must n appropriate marking utensil).
	Expected: The ballot indical excluding a straight party con	tes a vote selection for the first candidate in the first partisan "1 of 1" contest itest.
	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
	Expected: The ballot indica excluding a straight party con	tes a vote selection for the second candidate in the first partisan "1 of 1" contest atest.
	Actual:	
1030	Attempt to cast the ballot on t	the Optical Scan precinct tabulation device.
	Expected: The ballot is reject provides an indication of an a Actual:	ed due to the over-vote condition. The precinct tabulation device displays or attempt to over vote.
1040	Obtain a blank ballot.	
	l	

	Expected: 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.	
	Expected: The ballot indicates a vote selection for the second candidate in the first partisan "1 of 1" contest	
	excluding a straight party contest.	
	Actual:	
	Actuut.	
1060	Mild it is a find a second of the Decay	
	Mark the write-in option for the same contest as in step 1050 and input the write-in "John Doe".	
	Expected: The ballot indicates a vote selection for the write-in.	
	Actual:	
1070	Actual.	
	Attempt to cast the ballot on the Optical Scan precinct tabulation device.	
	Expected: 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:	
	Actuut.	
1080		
	Obtain a blank ballot.	
	Expected: The ballot is blank and vote selections can be made.	
	Actuals	
	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.	
	1020.	
	Expected: The ballot indicates a vote for the "N+1" candidate.	

	Actual:
1110	Attempt to cast the ballot on the Optical Scan precinct tabulation device.
	Expected: 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	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:
1150	Attempt to cast the ballot on the Optical Scan precinct tabulation device.
	Expected: 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

Review the closed polls report to ensure no votes are recorded and no ballots were scanned.

Expected: 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.

m . a . v		45/40\ D. H D		
Test Case Identifier: 10 – 25 P.S. § 3031.7(10) Ballot Review and Change				
Test Case Identifier: 10 – 25 P.S. § 303 PA ST 25 P.S. § 3031.7 Requirements: Test Objective: To determine if the v device allows the voter to review selections and change a vote selection becast of the ballot. Test Equipment:		the described for normal election day operation by Pennsylvania		
	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 Expected: The ballot is blank Actual:	and vote selections can be made.		
1010	candidates in all "N of M" con marked in such a way as to me completely filled in with an ap	the first all "1 of 1" contest excluding a straight party contest, the first "N" ntests, and select the "Yes" option in all "Question" contests. The ballot must be eet the manufacturer's given criteria for a mark (for example, the oval must be ppropriate marking utensil).		
1020	Cast the ballot on the optical set the ballot on the optical set the ballot is cast set that the ballot is cast set that the ballot is cast set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot on the optical set that the ballot of the bal	scan precinct tabulation device.		
1030	Obtain a ballot for voting			

	Expected: The ballot is blank and vote selections can be made.		
	Actual:		
10.40			
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).		
	Expected: The ballot indicates selections as described above. Actual:		
1050	Using the designated method, spoil the ballot.		
	Expected: 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.		
	Expected: The ballot is blank and vote selections can be made. Actual:		
1000			
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).		
	Expected: The ballot indicates selections as described above.		
	Actual:		
1000			
1090	Cast the ballot on the optical scan precinct tabulation device.		
	Expected: The ballot is cast successfully.		

	Actual:
1100	Close the polls and print the closed polls report tape.
	Expected: The polls closed and a report is printed. Actual:
1090	Review the closed polls report to ensure all selections input above are recorded and reported correctly. 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.
	Expected: The closed polls report presents the accumulated totals for the selections input above. Actual:

Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The voter input can be changed by navigating through the ballot after a ballot has been reviewed.

Test Case Id	Test Case Identifier: 16 – 25 P.S. § 3031.7(16) Public Counter, No Reopening of Polls, Media Security with				
Tamper Proof Locks and Zero Proof and Tally Reports.					
PA ST 25 P			the voting system is of a type which provides for the computation		
Requirement			bulation of votes at the district level, the district component of the		
1			atic tabulating equipment shall include the following mechanisms		
			abilities:		
		(i) A pi	ublic counter, the register of which is visible from the outside of the		
			tic tabulating equipment component into which the ballots are		
			l, which shall show during any period of operation the total		
			r of ballots entered for computation and tabulation.		
			ock, or locks, by the use of which all operation of the tabulation		
			t of the automatic tabulating equipment is absolutely prevented		
			iately after the polls are closed or where the tabulation of votes is		
		comple			
		_	shall be so constructed and controlled that, during the progress of		
			it shall preclude every person from seeing or knowing the number		
			s theretofore registered for any candidate or question; and it shall		
			le every person from tampering with the tabulating element.		
		-	ne number of choices recorded for any office or on any question		
			s the number for which the voter is entitled to vote, it shall reject		
			ices recorded on the ballot for that office or question, provided,		
			used during the period of voting it may also have the capacity to		
			e to a voter that he has improperly voted for more candidates for		
			ice than he is entitled to vote for, and in such case it shall have the		
			ty to permit the voter to mark a new ballot or to forego his		
			unity to make such correction.		
			hall be equipped with an element which generates a printed record		
			at the beginning of its operation which verifies that the tabulating		
			ts for each candidate position and each question and the public		
			r are all set to zero and with an element which generates a printed		
		record	at the finish of its operation of the total number of voters whose		
			have been tabulated, the total number of votes cast for each		
			ate whose name appears on the ballot, and the total number of		
			ast for, or against, any question appearing on the ballot.		
Test Objectiv	ve: To determine if the votin		Fest Configuration: Optical Scan Precinct tabulation device		
	oublic counter, does not allow	_	configured as described for normal election day operation by		
-	of the polls, and supplies a		Pennsylvania procedures and/or the device manufacturer. This		
proof and tall			ncludes all security locks and seals.		
Test Equipm		None	·		
	edural Requirements:	None			
Assumptions	:	The ele	ection media is installed but the polls have not been opened.		
Step			Description		
1000					
	Ensure media is loaded but the polls have not been opened. Use the designated method to open polls. If a				
	response is needed to print "Zero Proof" report, select this option.				
	Expected: The optical scan precinct tabulation device opens the polls and prints a "Zero Proof" report.				
	Actual:				
1010					
	Obtain a blank ballot.				
	Expected: The ballot is blank a	nd vote	selections can be made.		

	Actual:
1020	On the straight party contest, mark the first selection in the straight party contest. *Expected: 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. Expected: 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. Expected: The polls closed and a report is printed. Actual:
1060	Use the designated method to attempt to reopen the polls. Expected: The polls cannot be reopened. Actual:
1070	Place lock on the optical scan precinct tabulation device per Pennsylvania Procedures to ensure all operation of the tabulation element is prevented. Expected: 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

AutoMARK

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

	Side View Voter line of sight
	12'
	Verify all measurements.
	Expected: Center measurement is 12 feet and the side distance observation points are approximately 17 feet with a voter line of sight at 48 inches.
	Actual::
1010	Observer Role - Activate a ballot for ADA voting.
	Expected: Ballot is presented and vote selections can be input. Actual:
1020	ADA Voter Role - Select the candidate corresponding to the upper most left hand position of the ballot presentation.
	Observer Role - Attempt to ascertain, both audibly and visually, the 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.
	Expected: The Observer cannot determine the ADA Voter's input selections.
1030	Actual:
	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.
	Expected: 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.
	Expected: The Observer cannot determine the ADA Voter's input selections.
	Actual:
1050	ADA Voter Role - Select the candidate corresponding to the lower most right hand position of the ballot presentation.
	Observer Role - Attempt to ascertain, both audibly and visually, the 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:

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

Test Case Id	entifier: 02 – 25 P.S. § 303	1.7(2) S	Selection of Candidates and Questions by Voter (Regular/ADA)
	25 P.S. § 3031.7	(2) Pr	ovides facilities for voting for such candidates as may be nominated pon such questions as may be submitted.
	ve: To determine if a vote select candidates and question	ons.	Test Configuration: Ballot Marking Device (BMD) and precinc tabulation device are configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer.
Test Equipn	nent:	None	
	edural Requirements:	None	
Assumptions		An ele	ection is loaded on the device and the polls are open, ready fo
Step			Description
1000	On the BMD, activate a ballot	for voti	ing.
	Expected: The ballot is preser	ited and	vote selections can be input.
	Actual:		
1010	Select the first candidate in th	e first pa	artisan contest excluding a straight party contest.
	Expected: The BMD displays partisan contest excluding a st	_	ides an indication of a vote selection for the first candidate in the first arty contest.
	Actual:		
1020			e the ballot to the first "N of M" contest. Select the first "N" candidates in the first two candidates would be selected).
	Expected: The BMD advances 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:		
1030	Use the designated method to contest.	advance	e the ballot to the first "Question" contest. Select the "Yes" option in the
	*		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	advance	e the ballot to the second "Question" contest. Select the "No" option in the

	contest.
	Expected: 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.
	Actual:
1050	Use the designated method to advance the "Ballot Review". Observe the "Ballot Review" to see if the above selections are displayed. Use the designated method to accept the marked ballot. Then, on the precinct tabulation device, cast the voted selections.
	Expected: 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.
	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.
	Expected: The polls closed and a report is printed. Actual:
1080	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	Expected: The closed polls report presents the accumulated totals for the selections input above. Actual:
Criteria for as input by th	Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported e tester.

Toot Cose Id	ontifion: 02 25 D.C. 8 202	1.7(2) Straight Dorty and Dannaylyania Mathad	
PA ST	25 P.S. § 3031.7	1.7(3) Straight Party and Pennsylvania Method (3) Permits each voter, at other than primary elections, to vote a straight	
Requiremen	•	political party ticket by one mark or act and, by one mark or act, to vote	
_		for all the candidates of one political party for presidential electors and,	
		by one mark or act, to vote for all the candidates of one political party for	
		every office to be voted for, and every such mark or act shall be	
		equivalent to and shall be counted as a vote for every candidate of the	
		political party so marked including its candidates for presidential electors, except with respect to those offices as to which the voter has	
		registered a vote for individual candidates of the same or another	
		political party or political body, in which case the automatic tabulating	
		equipment shall credit the vote for that office only for the candidate	
		individually so selected, notwithstanding the fact that the voter may not	
		have individually voted for the full number of candidates for that office	
T		for which he was entitled to vote.	
	ive: To determine if the v		
Pennsylvania	orts straight party voting an	d the tabulation device configured as described for normal election day operation by Pennsylvania procedures and/or the device	
remisyrvania	. IVICHIOU.	manufacturer.	
Test Equipn	nent:	None	
	edural Requirements:	None	
Assumptions		An election is loaded on the devices and the polls are open, ready for	
g.		voting.	
Step 1000		Description	
1000	On the BMD, activate a ballo	t for voting.	
	· · · · · · · · · · · · · · · · · · ·		
	Expected: The ballot is presen	nted and vote selections can be input.	
	Actual:		
1010			
1010	Select the option for the first	party selection of the straight party.	
	Expected: The BMD displays or provides an indication of a vote selection for the first party selection in the		
	straight party contest.		
	Actual:		
1020			
	Use the designated method to	advance through the ballot to each partisan contest. Observe all partisan contests	
	for the indication of a voter selection for all partisan candidates associated with the first straight party selection.		
	Expected: The BMD displays or provides an indication of a vote selection for all the partisan candidates in each		
	contest associated with the first straight party selection.		
	Actual:		
	Асша.		
1030			
	_	advance through the remainder of the ballots advancing to the ballot review screen.	
	Observe the selection in the b	allot review observing only the partisan contests associated with the first straight	

	party selections are present. Use the designated method to accept and mark the ballot. Then, on the precinct tabulating device, use the designated method to cast the voted ballot.
	Expected: 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.
	Expected: The ballot is presented and vote selections can be input.
	Actual:
1050	Select the option for the second party selection of the straight party.
	Expected: The BMD displays or provides an indication of a vote selection for the second party in the straight party contest.
	Actual:
1060	Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contests for an indication of a voter selection for all partisan candidates associated with the second straight party selection.
	Expected: The 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.
	Actual:
1070	Use the designated method to retreat through the ballot selections to the first "N of M" contest. Select the first partisan candidate that is not the party associated with the second straight party selection. Leave the remainder of the selections under voted.
	Expected: "N" candidates for the party of the second straight party selections should display or provide an indication of the non-selection. The selected candidate should be the only selection displayed or indicated.
	Actual:
1080	Use the designated method to retreat through the ballot to the "Straight Party" contest. Observe the selection for the second straight party selection.
	Expected: The second straight party selections should be displayed or an indication given as selected.

	Actual:
1090	Use the designated method to advance through the ballot to the second "N of M" contest. Select the first partisan candidate that is not the party associated with the second straight party selection. Leave the remainder of the selections under voted. *Expected: "N" candidates for the party of the second straight party selections should display or provide an indication of the non-selection. The selected candidate should be the only selection displayed or indicated. *Actual:
1100	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 "N of M" contests. Use the designated method to accept and mark the ballot. Then, on the precinct tabulation device, use the designated method to cast the voted ballot.
	Expected: 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:*
1110	On the BMD, activate a ballot for voting.
	Expected: The ballot is presented and vote selections can be input. Actual:
1120	Select the option for the first party selection of the straight party.
	Expected: The BMD displays or provides an indication of a vote selection for the first party in the straight party contest.
	Actual:
1130	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 partisan candidates in each contest associated with the first straight party selection.
	Actual:
1140	

	Use the designated method to retreat through the ballot selections to the first "N of M" contest. Select the first partisan candidate that is associated with the first straight party selection. Leave this contest and the remainder of the selections under voted. Expected: "N" candidates for the party of the first straight party selections should display or provide an indication of the non-selection. The selected candidate should be the only selection displayed or indicated. Actual:
1150	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. Expected: The BMD displays or indicates the selection for the partisan contests associated with the first straight party selection for all contests except the first "N of M" contest. The first "N of M" contest displays or indicates the selection of the second candidate that is associated with the first straight party selection and an under vote. After review, the ballot is accepted and is then cast successfully on the precinct tabulation device. Actual:
1160	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:
1170	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:
1180	

Review the closed polls report to ensure all selections input above are recorded and reported correctly.
Expected: The closed polls report presents the accumulated totals for the selections input above.
Actual:

Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The functionality of selecting a candidate of the same party or of a different party of the straight party selection de-selects all candidates for the straight party vote.

Test Case Id	entifier: 04 – 25 P.S. § 303	1.7(4) Straight Party and Write-In		
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		
T	T. 1. 10.1	names are not in nomination and do not appear upon the official ballot.		
	ve: To determine if the voting			
write-in.	orts straight party voting and	tabulation device are configured as described for normal election day operation by Pennsylvania procedures and/or the device		
witte-iii.		manufacturer.		
Test Equipm	nent:	None		
	edural Requirements:	None		
Assumptions	S:	An election is loaded on the devices and the polls are open, ready for		
G.		voting.		
Step		Description		
1000	On the BMD, activate a ballo	t for voting		
	Expected: The ballot is presen	nted and vote selections can be input.		
	Actual:			
1010				
	Select the option for the first	party selection of the straight party.		
	Expected: The RMD displays	or provides an indication of a vote selection for the first party selection in the		
	straight party contest.	of provides all indication of a vote selection for the first party selection in the		
	Actual:			
1020	Use the designated method to	advance through the ballot to each partisan contest. Observe all partisan contests		
	_	a voter selection for all partisan candidates associated with the first straight party		
	Expected: The BMD display contest associated with the fir	s or provides an indication of a vote selection for all the partisan candidates in each est straight party selection.		
	Actual:			
1030				
		advance through the remainder of the ballot advancing to the ballot review screen.		
	party selections are present.	vallot review observing only the partisan contests associated with the first straight. Use the designated method to accept and mark the ballot. Then, on the precinct ignated method to cast the voted ballot.		
		or provides an indication of the selection for only the partisan contests associated lection. After review, the ballot is accepted and is then cast successfully on the		
	Actual:			
1040	0 4 PMP - 3 - 3 - 3			
	On the BMD, activate a ballo	t for regular voting		

	Expected: The ballot is presented and vote selections can be input. Actual:
1050	Select the option for the first party selection of the straight party.
	Expected: The 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 partisan contest. Use the designated method to accept and mark the ballot. Then, on the precinct tabulation device, use the designated method to cast the voted ballot. Expected: 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.
	Expected: 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:
Use the designated method to advance to the ballot review screen. Observe the selections associated with the first straight party selection and "Yes" on the first "Question" contest (unless the device toggled, then "No"). Us the designated method to accept and mark the ballot. Then, on the precinct tabulation device, use the designated method to cast the voted ballot.
Expected: The BMD displays or provides an indication of a vote selection associated with the first party selection and "Yes" on the first "Question" contest. After review, the ballot is accepted and is then cast successfully on the precinct tabulation device.
Actual:
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:
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:
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.

PA ST 25 P.S. § 3031.7 Requirements:		1.7(5) Selection of Candidate and Write-in (5) Permits each voter to vote for any person and any office for whom and for which he is lawfully entitled to vote, whether or not the name of such person appears upon the ballot as a candidate for nomination or election.		
	ve: To determine if the voting that the selection of a candidate acandidate.		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	ent:	None		
Special Proc	edural Requirements:	None		
Assumptions	::	An e votin		
Step			Description	
1000	On the BMD, activate a ballo	t for vo	ting.	
	Expected: The ballot is presen	nted an	d vote selections can be input.	
	Actual:			
1010	-		ate in the first partisan contest. vides an indication of a vote selection for the first candidate selection in the	
	Actual:			
1020	Observe the selection in the b	allot re method	ce through the remainder of the ballot advancing to the ballot review screen. view, 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.	
		_	vides an indication of the selection for only the first candidate selection in the ballot is accepted and is then cast successfully on the precinct tabulation	
	Actual:			
1030	On the BMD, activate a ballot for voting.			
	Expected: The ballot is present Actual:	nted an	d vote selections can be input.	
1040	ленин.			
1040	Select the option for a write-in Doe".	n candi	date 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. Expected: The precinct tabulation device displays or provides an indication of the selection for only the write-in candidate "John Doe" in first partisan contests. After review, the ballot is cast successfully 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	
1070	Select the option for a write-in candidate in the first "N of M" contest. Use the designed method to input "John
	Doe" for all selections. Observe any activity to preclude the same input.
	Expected: The 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:
1000	
1080	
	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 candidates in the first "N of M" contest are
	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.
	Expected: The precinct tabulation device displays or provides an indication of the selection for only the write-in
	candidates "John Doe" in first "N of M" contests. After review, the ballot is cast successfully on the precinct
	tabulation device.
	Actual:
	Allinui.
1090	
	Repeat steps 1000- 1050 from above using an ADA input device.
	Expected: Repeat 1000
	Repeat 1010
	Repeat 1020

	Repeat 1030 Repeat 1040
	Repeat 1050
1100	
1100	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 the tester. The functionality of selecting a candidate and a write-in candidate functions.

Test Case Id	lentifier: 07– 25 P.S. § 3031	1.7(7) Attempt to Over Vote Contests and Questions (Regular/ADA)
	P.S. § 3031.7	(7) If it is of a type that registers the vote electronically, the voting system
Requirements: Test Objective: To determine if the vo		shall preclude each voter from voting for more persons for any office than
		he is entitled to vote for or upon any question more than once.
Test Object	ive: To determine if the v	roting Test Configuration: Ballot Marking Device (BMD) and precinct
•	ws over voting on contests	
questions		operation by Pennsylvania procedures and/or the device
Fauinmente		manufacturer. None
Equipment:	cedural Requirements:	None
Assumption		An election is loaded on the devices and the polls are open, ready for
rissumption		voting.
Step		Description
1000		
	On the BMD, activate a ballo	t for voting.
	Expected: The ballot is presen	nted and vote selections can be input.
	Expected. The ballot is presen	med and vote selections can be input.
	Actual:	
1010		
	Select the first candidate in the	ne first partisan "1 of 1" contest excluding a straight party contest.
	Emant de The DMD display	
	partisan "1 of 1" contest exclusion	ys or provides an indication of a vote selection for the first candidate in the first
	partisali i oi i contest excit	duing a straight party contest.
	Actual:	
1020		
	-	candidate in the first partisan "1 of 1" contest ensure the contest is the same contest
	as voted in step 1010. Observ	ve the action of attempting to place a second vote.
	Expected: The RMD display	s or provides an indication of an attempt to over vote. The BMD might disallow the
	selection and not display any	•
	Actual:	
1030	Attempt to galact the works :	antian Observe the action of attempting to input a voite in
	Attempt to select the write-in	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	•
	Actual:	
1040		
	_	advance the ballot to the first "N of M" contest. Select the first "N" candidates in
	tne contest. (e.g. in a Vote for	r Two contest the first two candidates would be selected).
	Expected: The BMD advance	es to the first "N of M" contest. Once selected, the BMD displays or provides an
	1	

	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.
	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:
1060	Use the designated method to advance the ballot to the first "Question" contest. Select the "Yes" option in the contest.
	Expected: 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 mark the voted selections onto the paper ballot. Use the designated mark to cast the marked ballot on the precinct tabulation device.
	Expected: The ballot marking device advances to the "Ballot Review" screen and marks the selections. 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.
	Expected: The polls closed and a report is printed. Actual:
1110	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	Expected: The closed polls report presents the accumulated totals for the selections input above.
	Actual:
	Evaluation of the Test Results: The intended selections input above are recorded, stored, and uput by the tester. The attempts to select more persons than the vote for and any question more than

once are unsuccessful.

Test Case Id	entifier: 10 – 25 P.S. 8 303	1.7(10) Ballot Review and Change (RegularADA)
		(10) If it is of a type that registers the vote electronically, the voting
PA ST 25 P.S. § 3031.7 Requirements:		system shall permit each voter to change his vote for any candidate or
Kequii eiileii	us.	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 Object	ive: To determine if the v	oting Test Configuration: Ballot Marking Device (BDM) and precinct
	ws the voter to review	
	d change a vote selection b	
cast of the ba		manufacturer.
Test Equipm		None
	edural Requirements:	None
Assumptions	S:	An election is loaded on the devices and the polls are open, ready for voting.
Step		Description
1000		Description
2000	On the BMD, activate a ballo	t for voting.
	·	Ç
	Expected: The ballot is presen	nted and vote selections can be input.
	Actual:	
1010		
	Select the first candidate in th	ne 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.
	E A TI DMD II	
	Expected: The BMD allows	for the navigation and the voting inputs to be selected as described above.
	Actual:	
1020		
	Use the designated method t	o advance the "Ballot Review". Observe the "Ballot Review" to see if the above
	selections are indicated.	
	Expected: The BMD advance	es to the "Ballot Review" screen. The vote selections can be verified.
	Actuals	
	Actual:	
1030		
1000	Use the designated method to	retract to the first partisan "1 of 1" contest excluding the straight party contest
	Expected: The BMD navigate	es to the first partisan "1 of 1" contest excluding the straight party contest.
	Actual:	
	110mm.	
L		

1040	Deselect the first candidate selection and select the second candidate.
	Expected: The BMD indicates the de-selection of the first candidate and the select of the second candidate.
	Actual:
1050	Use the designated method to advance to the first "Question" contest. De-select the "Yes" option and select the "No" option.
	<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 and mark the ballot. Then, on the precinct tabulation device, use the designated method to cast the voted selections.
	Expected: 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.
	Expected: The polls closed and a report is printed.
	Actual:

1090

Review the closed polls report to ensure all selections input above are recorded and reported correctly.

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

Actual:

Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The voter input can be changed by navigating through the ballot after a ballot has been reviewed.

TEST CASES

ExpressVote

I		
		1.7(1) Voter Secrecy (ADA Voter)
PA ST 25 P Requiremen	P.S. § 3031.7 t:	(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.
selections inpobserved dur vote has been		tabulation device are configured as described for normal election day operation by Pennsylvania procedures and/or the device manufacturer for an ADA voter. A marker is placed 12 feet (measured from the lowest point of the devices voting surface to the floor) directly behind the center of the 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 line of 4 feet. See Step 1001.
	edural Requirements:	Standard 15+ foot tape measure Two roles are required for this test case: an ADA Voter role and an Observer role. The ADA voter will be positioned with a line of site at 48 inches. The observation must be made by an individual between the heights of 68 inches and 71 inches. An election is leaded on the devices and the polls are open ready for
Assumptions	S:	An election is loaded on the devices and the polls are open, ready for voting.
Step 1000		Description
	Layout Diagram:	Top View BMD 12' 12'
1001	Verify all measurements. Expected: Center measurements. Actual: ADA Voter Position:	ent is 12 feet and the side distance observation points are approximately 17 feet.

	Side View Voter line of sightBMD
	48"
	*
	Verify all measurements.
	<i>Expected:</i> Center measurement is 12 feet and the side distance observation points are approximately 17 feet with a voter line of sight at 48 inches.
	Actual::
1010	Observer Role - Activate a ballot for ADA voting.
	Expected: Ballot is presented and vote selections can be input. Actual:
	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.
	Expected: 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.

Expected: 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. Expected: The Observer cannot determine the ADA Voter's input selections. Actual: 1050 ADA Voter Role - Select the candidate corresponding to the lower most right hand position of the ballot presentation. Observer Role - Attempt to ascertain, both audibly and visually, the 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: Criteria for Evaluation of the Test Results: The observer must not be able to determine the Voter's

selection from any observation position or any Voter selection surface position.

Test Case Id	lentifier: 02 – 25 P.S. § 303	.7(2) Se	election of Candidates and Questions by Voter (Regular/ADA)
	25 P.S. § 3031.7	(2) Pro	ovides facilities for voting for such candidates as may be nominated
Requiremen	t:	and up	oon such questions as may be submitted.
	ive: To determine if a vote select candidates and question	ons.	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	s:	An ele voting.	ection is loaded on the device and the polls are open, ready for
Step			Description
1000	On the BMD, activate a ballot	for voti	ng.
	Expected: The ballot is preser	ted and v	vote selections can be input.
	Actual:		
1010	Select the first candidate in th	e first pa	rtisan contest excluding a straight party contest.
	Expected: The BMD displays partisan contest excluding a st	-	des an indication of a vote selection for the first candidate in the first carty contest.
	Actual:		
1020			the ballot to the first "N of M" contest. Select the first "N" candidates in ntest the first two candidates would be selected).
	-		irst "N of M" contest. Once selected, the BMD displays or provides an andidates in the first "N of M" contest.
	Actual:		
1030	Use the designated method to contest.	advance	the ballot to the first "Question" contest. Select the "Yes" option in the
	-		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	advance	the ballot to the second "Question" contest. Select the "No" option in the

	contest.
	Expected: 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.
	Actual:
1050	Use the designated method to advance the "Ballot Review". Observe the "Ballot Review" to see if the above selections are displayed. Use the designated method to accept the marked ballot. Then, on the precinct tabulation device, cast the voted selections.
	Expected: 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.
	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.
	Expected: The polls closed and a report is printed. Actual:
1080	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	Expected: The closed polls report presents the accumulated totals for the selections input above. Actual:
Criteria for I	Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported e tester.

Test Case Id	entifier: 03 – 25 P.S. 8 303	1.7(3) Straight Party and Pennsylvania Method
	25 P.S. § 3031.7	
Test Objecti	ive: To determine if the v	
_	orts straight party voting an	
Pennsylvania	Method.	operation by Pennsylvania procedures and/or the device
(D) 4 (D) 1	•	manufacturer. None
Test Equipm	edural Requirements:	None
Assumptions		An election is loaded on the devices and the polls are open, ready for
rissumption	•	voting.
Step		Description
1000	On the BMD, activate a ballo Expected: The ballot is present Actual:	t for voting. Inted and vote selections can be input.
1010	-	party selection of the straight party. or provides an indication of a vote selection for the first party selection in the
1020	for the indication of a voter se	advance through the ballot to each partisan contest. Observe all partisan contests election for all partisan candidates associated with the first straight party selection. s or provides an indication of a vote selection for all the partisan candidates in each set straight party selection.
1030		advance through the remainder of the ballots advancing to the ballot review screen. allot review observing only the partisan contests associated with the first straight

	party selections are present. Use the designated method to accept and mark the ballot. Then, on the precinct tabulating device, use the designated method to cast the voted ballot.
	Expected: 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.
	Expected: The ballot is presented and vote selections can be input.
	Actual:
1050	Select the option for the second party selection of the straight party.
	Expected: The BMD displays or provides an indication of a vote selection for the second party in the straight party contest.
	Actual:
1060	Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contests for an indication of a voter selection for all partisan candidates associated with the second straight party selection.
	Expected: The 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.
	Actual:
1070	Use the designated method to retreat through the ballot selections to the first "N of M" contest. Select the first partisan candidate that is not the party associated with the second straight party selection. Leave the remainder of the selections under voted.
	Expected: "N" candidates for the party of the second straight party selections should display or provide an indication of the non-selection. The selected candidate should be the only selection displayed or indicated.
	Actual:
1080	Use the designated method to retreat through the ballot to the "Straight Party" contest. Observe the selection for the second straight party selection.
	Expected: The second straight party selections should be displayed or an indication given as selected.

	Actual:
1090	Use the designated method to advance through the ballot to the second "N of M" contest. Select the first partisan candidate that is not the party associated with the second straight party selection. Leave the remainder of the selections under voted. *Expected: "N" candidates for the party of the second straight party selections should display or provide an indication of the non-selection. The selected candidate should be the only selection displayed or indicated. *Actual:
1100	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 "N of M" contests. Use the designated method to accept and mark the ballot. Then, on the precinct tabulation device, use the designated method to cast the voted ballot.
	Expected: 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:*
1110	On the BMD, activate a ballot for voting.
	Expected: The ballot is presented and vote selections can be input. Actual:
1120	Select the option for the first party selection of the straight party.
	Expected: The BMD displays or provides an indication of a vote selection for the first party in the straight party contest.
	Actual:
1130	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 partisan candidates in each contest associated with the first straight party selection.
	Actual:
1140	

	Use the designated method to retreat through the ballot selections to the first "N of M" contest. Select the first partisan candidate that is associated with the first straight party selection. Leave this contest and the remainder of the selections under voted. *Expected: "N" candidates for the party of the first straight party selections should display or provide an indication of the non-selection. The selected candidate should be the only selection displayed or indicated. *Actual:
1150	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. Expected: The BMD displays or indicates the selection for the partisan contests associated with the first straight party selection for all contests except the first "N of M" contest. The first "N of M" contest displays or indicates the selection of the second candidate that is associated with the first straight party selection and an under vote. After review, the ballot is accepted and is then cast successfully on the precinct tabulation device.
	Actual:
1160	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:
1170	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:
1180	

Review the closed polls report to ensure all selections input above are recorded and reported correctly.
Expected: The closed polls report presents the accumulated totals for the selections input above.
Actual:

Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The functionality of selecting a candidate of the same party or of a different party of the straight party 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.S. § 3031.7		(4) P	Permits each voter, at other than primary elections, to vote a ticket
Requirements:		selec	ted from the nominees of any and all political parties, from the
			nees of any and all political bodies, and from any persons whose
T	T. 1. 1. 10.1		es are not in nomination and do not appear upon the official ballot.
	ve: To determine if the votin		Test Configuration: Ballot Marking Device (BMD) and precinct
write-in.	orts straight party voting and		tabulation device are configured as described for normal election day operation by Pennsylvania procedures and/or the device
WIIIC-III.			manufacturer.
Test Equipn	nent:	None	
	edural Requirements:	None	
Assumptions		An e	lection is loaded on the devices and the polls are open, ready for
	T	votin	
Step			Description
1000	On the BMD, activate a ballo	t for vo	ıting
	on the Bivib, activate a suns	. 101 10	
	Expected: The ballot is presen	nted an	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			
	Use the designated method to advance through the ballot to each partisan contest. Observe all partisan contests for a display or indication of a voter selection for all partisan candidates associated with the first straight party		
	selection.		
	Expected: The BMD displays or provides an indication of a vote selection for all the partisan candidates in each contest associated with the first straight party selection.		
	contest associated with the fir	st strai	gnt party selection.
	Actual:		
1030			
			ce 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 and mark the ballot. Then, on the precinct method to cast the voted ballot.
	tabulation device, use the des	ignated	memou to east the voice ballot.
	Expected: The BMD displays	or pro	vides an indication of the 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			
1040	On the BMD, activate a ballo	t for re	gular voting
<u> </u>	,		

	Expected: The ballot is presented and vote selections can be input. Actual:
1050	Select the option for the first party selection of the straight party.
	Expected: The 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 partisan contest. Use the designated method to accept and mark the ballot. Then, on the precinct tabulation device, use the designated method to cast the voted ballot. Expected: 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	
1000	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.
	<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:
1100	Use the designated method to advance to the first "Question" contest. Select the "Yes" option. Attempt to over vote by selecting the "No" option. Observe the action of attempting to select the second option.
	Expected: The 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:
Use the designated method to advance to the ballot review screen. Observe the selections associated with the first straight party selection and "Yes" on the first "Question" contest (unless the device toggled, then "No"). Us the designated method to accept and mark the ballot. Then, on the precinct tabulation device, use the designated method to cast the voted ballot.
Expected: The BMD displays or provides an indication of a vote selection associated with the first party selection and "Yes" on the first "Question" contest. After review, the ballot is accepted and is then cast successfully on the precinct tabulation device.
Actual:
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:
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:
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.

Test Case Identifier: 05 – 25 P.S. § 303 PA ST 25 P.S. § 3031.7 Requirements: Test Objective: To determine if the voting system supports the selection of a candidate and a write-in candidate.		(5) P	Selection of Candidate and Wfite-in ermits each voter to vote for any person and any office for whom and chich he is lawfully entitled to vote, whether or not the name of such		
		v	person appears upon the ballot as a candidate for nomination or election.		
		ng	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	ent:	None			
Special Proc	edural Requirements:	None			
Assumptions	:	An e			
Step			Description		
1000	On the BMD, activate a ballo	t for vo	ting.		
	Expected: The ballot is presen	nted and	d vote selections can be input.		
	Actual:				
1010	-		ate in the first partisan contest. vides an indication of a vote selection for the first candidate selection in the		
	first partisan contest. Actual:	1			
1020	Observe the selection in the b selected. Use the designated the designated method to cast <i>Expected:</i> The BMD displays	allot re method the vot	ce through the remainder of the ballot advancing to the ballot review screen. view, 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. vides an indication of the selection for only the first candidate selection in the ballot is accepted and is then cast successfully on the precinct tabulation		
1030	On the BMD, activate a ballo Expected: The ballot is present Actual:				
1040	Select the option for a write-i Doe".	n candi	date 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. Expected: The precinct tabulation device displays or provides an indication of the selection for only the write-in candidate "John Doe" in first partisan contests. After review, the ballot is cast successfully 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				
1070	Select the option for a write-in candidate in the first "N of M" contest. Use the designed method to input "John			
	Doe" for all selections. Observe any activity to preclude the same input.			
	Expected: The 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:			
1000				
1080				
	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 candidates in the first "N of M" contest are			
	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.			
	Expected: The precinct tabulation device displays or provides an indication of the selection for only the write-in			
	candidates "John Doe" in first "N of M" contests. After review, the ballot is cast successfully on the precinct			
	tabulation device.			
	Actual:			
	Allinui.			
1090				
	Repeat steps 1000- 1050 from above using an ADA input device.			
	Expected: Repeat 1000			
	Repeat 1010			
	Repeat 1020			

	Repeat 1030
	Repeat 1040
	Repeat 1050
1100	
	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:
Criteria for	Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported

as input by the tester. The functionality of selecting a candidate and a write-in candidate functions.

Test Case Id	lentifier: 07– 25 P.S. § 3031	1.7(7) Attempt to Over Vote Contests and Questions (Regular/ADA)
	P.S. § 3031.7	(7) If it is of a type that registers the vote electronically, the voting system
Requiremen	=	shall preclude each voter from voting for more persons for any office than
		he is entitled to vote for or upon any question more than once.
Test Object	ive: To determine if the v	roting Test Configuration: Ballot Marking Device (BMD) and precinct
•	ws over voting on contests	
questions		operation by Pennsylvania procedures and/or the device
Fauinmente		manufacturer. None
Equipment:	cedural Requirements:	None
Assumption		An election is loaded on the devices and the polls are open, ready for
rissumption		voting.
Step		Description
1000		
	On the BMD, activate a ballo	t for voting.
	Expected: The ballot is presen	nted and vote selections can be input.
	Expected. The ballot is presen	med and vote selections can be input.
	Actual:	
1010		
	Select the first candidate in the	ne first partisan "1 of 1" contest excluding a straight party contest.
	Emant de The DMD displan	
	partisan "1 of 1" contest exclusion	ys or provides an indication of a vote selection for the first candidate in the first
	partisali i oi i contest excit	duing a straight party contest.
	Actual:	
1020		
	-	candidate in the first partisan "1 of 1" contest ensure the contest is the same contest
	as voted in step 1010. Observ	ve the action of attempting to place a second vote.
	Expected: The RMD display	s or provides an indication of an attempt to over vote. The BMD might disallow the
	selection and not display any	•
	Actual:	
1030	Attempt to galact the works :	antian Observe the action of attempting to input a voite in
	Attempt to select the write-in	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	•
	Actual:	
1040		
	_	advance the ballot to the first "N of M" contest. Select the first "N" candidates in
	tne contest. (e.g. in a Vote for	r Two contest the first two candidates would be selected).
	Expected: The BMD advance	es to the first "N of M" contest. Once selected, the BMD displays or provides an
	1	

	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.
	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:
1060	Use the designated method to advance the ballot to the first "Question" contest. Select the "Yes" option in the contest.
	Expected: 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 mark the voted selections onto the paper ballot. Use the designated mark to cast the marked ballot on the precinct tabulation device.
	Expected: The ballot marking device advances to the "Ballot Review" screen and marks the selections. 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.
	Expected: The polls closed and a report is printed.
	Actual:
1110	
	Review the closed polls report to ensure all selections input above are recorded and reported correctly.
	Europete de The elected malle general processes the economical totals for the colorious input chave
	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 attempts to select more persons than the vote for and any question more than
I	T T T T T T T T T T T T T T T T T T T

once are unsuccessful.

Test Case Id	entifier: 10 – 25 P.S. 8 303	1.7(10) Ballot Review and Change (RegularADA)	
	P.S. § 3031.7	(10) If it is of a type that registers the vote electronically, the voting	
Requiremen	=	system shall permit each voter to change his vote for any candidate or	
Kequii eiileii	us.	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 Object	ive: To determine if the v	oting Test Configuration: Ballot Marking Device (BDM) and precinct	
	ws the voter to review		
	d change a vote selection b		
cast of the ba		manufacturer.	
Test Equipn		None	
	edural Requirements:	None	
Assumptions	S:	An election is loaded on the devices and the polls are open, ready for voting.	
Step		Description	
1000		Description	
2000	On the BMD, activate a ballo	t for voting.	
	·	Ç	
	Expected: The ballot is presen	nted and vote selections can be input.	
	Actual:		
1010			
	Select the first candidate in the first all "1 of 1" contest excluding a straight party contest, the first "N" candidates		
	in all "N of M" contests, and select the "Yes" option in all "Question" contests.		
	Expected: The BMD allows for the navigation and the voting inputs to be selected as described above.		
	Actual:		
1020			
	Use the designated method t	o advance the "Ballot Review". Observe the "Ballot Review" to see if the above	
	selections are indicated.		
	Expected: The BMD advance	es to the "Ballot Review" screen. The vote selections can be verified.	
	Actuals		
	Actual:		
1030			
1000	Use the designated method to	retract to the first partisan "1 of 1" contest excluding the straight party contest	
	Expected: The BMD navigate	es to the first partisan "1 of 1" contest excluding the straight party contest.	
	Actual:		
	110mm.		
L			

1040	Deselect the first candidate selection and select the second candidate.
	Expected: The BMD indicates the de-selection of the first candidate and the select of the second candidate.
	Actual:
1050	Use the designated method to advance to the first "Question" contest. De-select the "Yes" option and select the "No" option.
	Expected: The 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 and mark the ballot. Then, on the precinct tabulation device, use the designated method to cast the voted selections.
	Expected: 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.
	Expected: The polls closed and a report is printed.
	Actual:

1090

Review the closed polls report to ensure all selections input above are recorded and reported correctly.

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

Actual:

Criteria for Evaluation of the Test Results: The intended selections input above are recorded, stored, and reported as input by the tester. The voter input can be changed by navigating through the ballot after a ballot has been reviewed.